N65928.AR.000929
NTC ORLANDO
5090.3a

COMPLETION REPORT FOR INTERIM REMEDIAL ACTION AT STUDY AREAS 17, 18, 23, 35, 40, 42 AND OPERABLE UNIT 3 (OU 3) AND OPERABLE UNIT 4 (OU 4) VOLUME 1 OF 3

NTC ORLANDO FL

8/18/1999

NAVY SHIPBUILIDNG, CONVERSION AND REPAIR

00449

07.08.17.0002

COMPLETION REPORT

INTERIM REMEDIAL ACTION
SA 17, 18, 23, 35, 37, 40, 42, and OU3 & 4
NAVAL TRAINING CENTER and McCOY ANNEX
ORLANDO, FLORIDA

VOL. 1 of 3

Prepared for:

DEPARTMENT OF THE NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
CHARLESTON SC

Prepared by:

Supervisor of Shipbuilding, Conversion and Repair,
USN, (SUPSHIP) Portsmouth Va.,
Environmental Detachment Charleston, S.C.
1899 North Hobson Ave.
North Charleston, SC 29405-2106

August 18, 1999

Ser: 653
AUG 18 1999

MEMORANDUM

From: Director, Supervisor of Shipbuilding, Conversion and Repair, USN Portsmouth Va., Environmental Detachment, Charleston, SC (SPORTENVDETCHASN)
To: Southern Division Naval Facilities Engineering Command

Subj: INTERIM REMEDIAL ACTION COMPLETION REPORT FOR STUDY AREAS 17, 18, 23, 35, 37, 40, 42, and OU3 & 4

Ref: (a) Statement of Work for Project O98021
Naval Training Center and McCoy Annex, Orlando, Florida

Encl: (1) Interim Remedial Action Completion Report

1. SPORTENVDETCHASN was requested per reference (a) to proceed with the execution of Interim Remedial Action Work Plan for Study Areas 17, 18, 23, 35, 37, 40, 42, and OU3 & 4 at the Naval Training Center and McCoy Annex, Orlando, Florida. The scope of this work plan included the excavation and disposal of contaminated soil.

2. Southern Division is requested to distribute copies of this report to the Florida Department of Environmental Protection, the United States Environmental Protection Agency, Harding Lawson Associates, Inc. and TetraTech NUS, Inc. Questions concerning these plans should be addressed to A.J. Moyer at (843) 743-6777 ext. 137 or Kevin Tunstall at ext. 227.

Respectfully,

for E. R. Dearhart

copy to:
File

To: Orlando Project Team Members 8/27/99

Enclosed is Volumes II and III and changes to Volume I.

In Volume I please make the following changes:

- Insert Figure 5 into Tab F
- Replace page H1-2
- Remove Figure 2 and hand drawn sketch from Tab H
- Insert Figures 2, 3, 4, and 5 into Tab H
- Insert sampling data into Appendix H2 directly after the "Confirmation Samples" page.

Substitutions made 9/8/99 -SDM

Thanks to everyone who assisted me/us with this project.

Alan J Moyer

A. J.

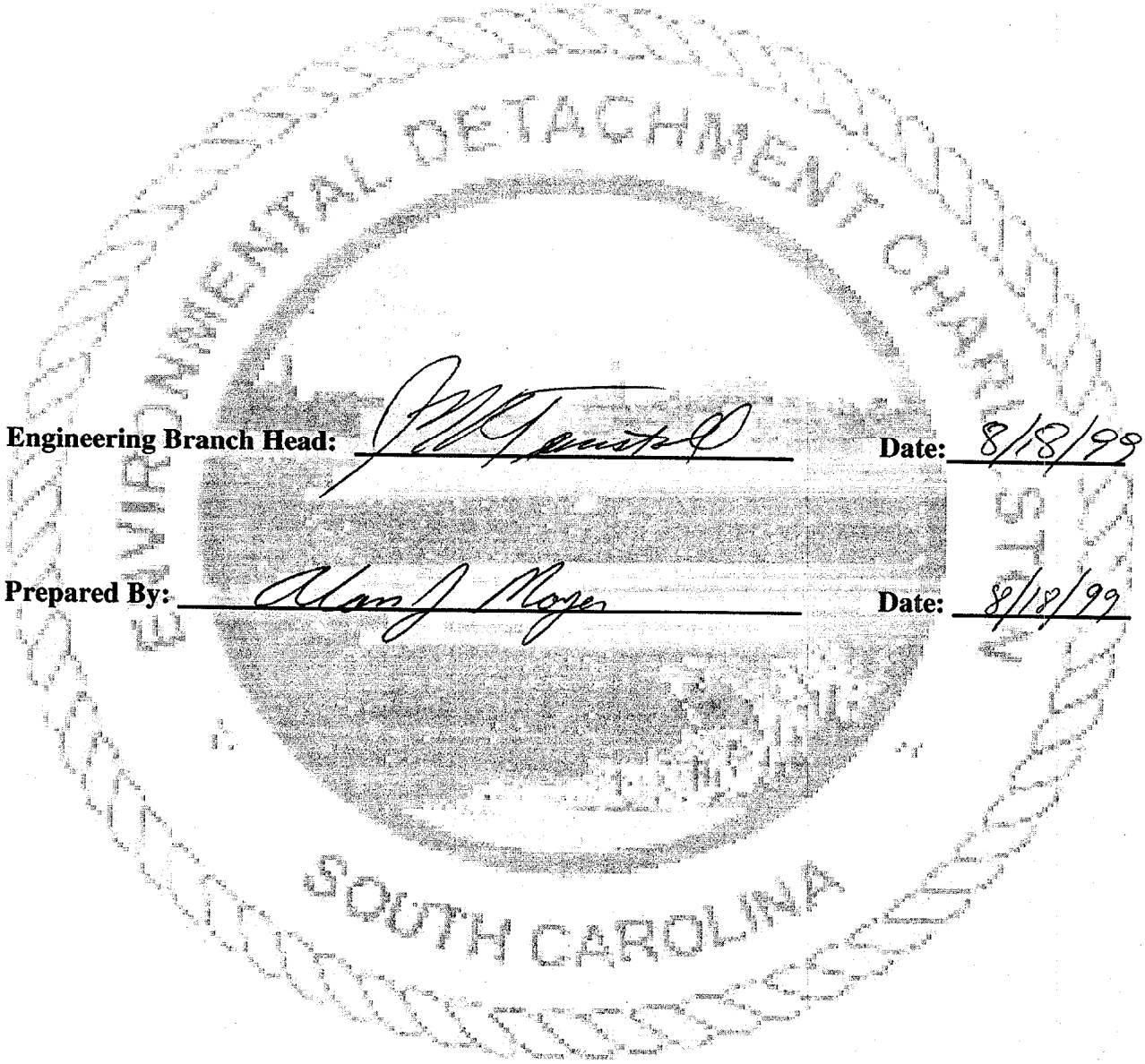
Alan "A. J." Moyer
Project Leader
Environmental Detachment Charleston
Supervisor of Shipbuilding, Conversion and Repair, USN, Portsmouth, VA

1899 N. Hobson Avenue
N. Charleston, SC 29405-2106
E-mail: amoyer@edc.net

(843) 743-6777/2821 x137
(DSN:563) Fax: 743-9413
Beeper: (888) 511-9235

COMPLETION REPORT

Interim Remedial Action
SA 17, 18, 23, 35, 37, 40, 42 and OU3 & 4
Naval Training Center & McCoy Annex
Orlando, Florida



Engineering Branch Head: _____ **Date:** 8/18/99

Prepared By: _____ **Date:** 8/18/99

REPORT GENERATED BY:
ENVIRONMENTAL DETACHMENT CHARLESTON

1899 NORTH HOBSON AVENUE
NORTH CHARLESTON, SC 29405

TABLE OF CONTENTS

Section		Page
Table of Contents		ii
List of Appendices		ii
Acronyms, Abbreviations and Symbols		iii
1.	Introduction	1-1
2.	STUDY AREA 17	TAB A
3.	STUDY AREA 18	TAB B
4.	STUDY AREA 23	TAB C
5.	STUDY AREA 35	TAB D
6.	STUDY AREA 37	TAB E
7.	STUDY AREA 40	TAB F
8.	STUDY AREA 42	TAB G
9.	OPERABLE UNIT 3 (STUDY AREAS 8 AND 9)	TAB H
10.	OPERABLE UNIT 4	TAB I

Appendix A1, B1, C1, D1, E1, F1, G1, H1, & I1 ..... Site Photographs

Appendix A2, B2, C2, D2, E2, F2, G2, H2, & I2 ..... Sampling Documentation

Appendix A3, B3, C3, D3, E3, F3, G3, H3, & I3 ..... Waste Manifests

ACRONYMS, ABBREVIATIONS and SYMBOL

BLS	Below Land Surface
BRAC	Base Realignment and Closure
CFR	Code of Federal Regulations
DET	Environmental Detachment Charleston
DRMO	Defense Reutilization and Marketing Office
EPA	Environmental Protection Agency
FDEP	Florida Department of Environmental Protection
HLA	Harding Lawson Associates
IA	Immunoassay
IRA	Interim Remedial Action
NTC	Naval Training Center
OPT	Orlando Partnering Team
OU	Operable Unit
PAH	Polynuclear Aromatic Hydrocarbon
PPB	Parts Per Billion
RBC	Risk Based Concentration
RCRA	Resource Conservation and Recovery Act
RGO	Remedial Goal Options
RI/FS	Remedial Investigation/Feasibility Study
SA	Study Area
SCTL	Soil Cleanup Target Levels
SOUTHDIV	Southern Division Naval Facilities Engineering Command
SUPSHIP	Supervisor of Shipbuilding, Conversion and Repair, USN
TSDF	Treatment, Storage and Disposal Facility
USEPA	United States Environmental Protection Agency
USN	United States Navy

1. INTRODUCTION

1.1 OBJECTIVE Southern Division Naval Facilities Engineering Command (SOUTHDIV) tasked Supervisor of Shipbuilding, Conversion and Repair, Portsmouth, Va. Environmental Detachment Charleston (DET) to provide an Interim Remedial Action (IRA) Work Plan for Study Areas (SA) 17, 18, 23, 35, 37, 40, 42, and Operable Units (OU) 3 and 4 at the Naval Training Center (NTC) and the McCoy Annex, Orlando, Florida. The objective of this IRA was to excavate and dispose of contaminated soils at these areas.

The Remedial Goal Options (RGO) for these sites are as listed in the Florida Department of Environmental Protection (FDEP) Soil Cleanup Target Levels (SCTL) dated 30 April 1998, or the Risk-Based Concentration Table, USEPA Region III, dated 01 Oct 1998 (RBC), whichever specifies the stricter criteria.

Individual site excavation boundaries and sampling requirements are consistent with the Base Realignment and Closure (BRAC) Work Plans for IRAs prepared by Harding Lawson Associates. (HLA).

All areas were backfilled with Florida-certified clean fill. See Appendix A2 for sampling documentation of the backfill.

Waste was characterized on each individual site based on process knowledge obtained from the Clean Contractors investigative sampling. Additional waste characterization analysis was performed by the DET as needed to verify the solid waste did not exceed the maximum concentration for the toxicity characteristic and to satisfy additional disposal/treatment requirements requested by the Treatment Storage Disposal Facility (TSDF) receiving the waste.

Separate Completion Reports are provided in Tabs A thru I of this document for each study area.

STUDY AREA 17

1. INTRODUCTION

1.1 STUDY AREA 17

SA 17 is located in the east-central portion of the McCoy Annex (Figure 1). The SA includes several buildings and a motor pool area. The motor pool area was used for vehicle and materials/storage (Figure 2).

1.2 SA 17 INTERIM REMEDIAL ACTION

SOUTHDIV tasked the DET to perform an IRA for this site. The objective of the IRA was to excavate and dispose of soil contaminated with Polynuclear Aromatic Hydrocarbon (PAHs). The excavation was to continue until the sampling program indicated with reasonable confidence that the concentrations of contaminants at the site were less than non-residential limits specified by FDEP SCG, dated 30 April 1998 or USEPA Region III, dated 01 October 1998, whichever specifies the stricter criteria.

1.2.1 SA 17 Interim Remedial Action Execution Summary

The execution of this IRA consisted of excavating an area approximately 300′ x 100′ to a depth of 2′ (Figure 3). Soil removed from the site was characterized as non-hazardous and was sent to a treatment facility for incineration. Confirmation samples were collected from the sidewalls upon completion of the excavation and tested for PAHs. The results of these samples were all less than the RGOs.

2.0 INTERIM REMEDIAL ACTION EXCECUTION

2.1 ACTIONS PERFORMED BY THE INTERIM REMEDIAL ACTION WORK PLAN

Actions performed are listed below

- Collection of waste characterization samples
- Installation of approximately 240′ of silt fencing for erosion control
- Excavation and disposal of an area approximately 300′ x 100′ and 2′ in depth
- Collection of confirmatory samples along each sidewall for analysis of PAHs
- Restoration of site by backfilling, grading to surrounding area, and hydroseeding

2.2 OBSERVATIONS NOTES

2.2.1 Soil Conditions

From ground surface to 6 inches below was run of crush. From 6 inches below ground surface to the bottom of the excavation the soil was dark silty sand.

3.0 INTERIM REMEDIAL ACTION OUTCOME

3.1 SITE CONDITIONS FOLLOWING COMPLETION OF WORK

Following completion of work, the DET had removed 4,374 tons of PAH contaminated soil. The site was backfilled, graded to surrounding area and hydroseeded. Site photographs are included in Appendix A1.

4.0 SAMPLING

4.1 CONFIRMATION SAMPLING

Upon completion of work a confirmation sample was taken approximately every 50′ on each sidewall and tested for PAHs (Figure 3). See appendix A2 for sampling documentation.

4.2 WASTE CHARACTERIZATION SAMPLING

Thirteen waste characterization (samples 17S001 thru 17S010, SA17S030, 99SPORT0173-27 & 28) were taken and analyzed for RCRA 8 metals, VOC 8021, and FLPRO. See appendix A2 for sampling documentation.

5.0 WASTE GENERATION

5.1 Non-Hazardous Waste

A total of 4,374 tons of non-hazardous PAH contaminated soil was disposed of to a permitted treatment, storage and disposal facility. Waste Manifests are in Appendix A3.

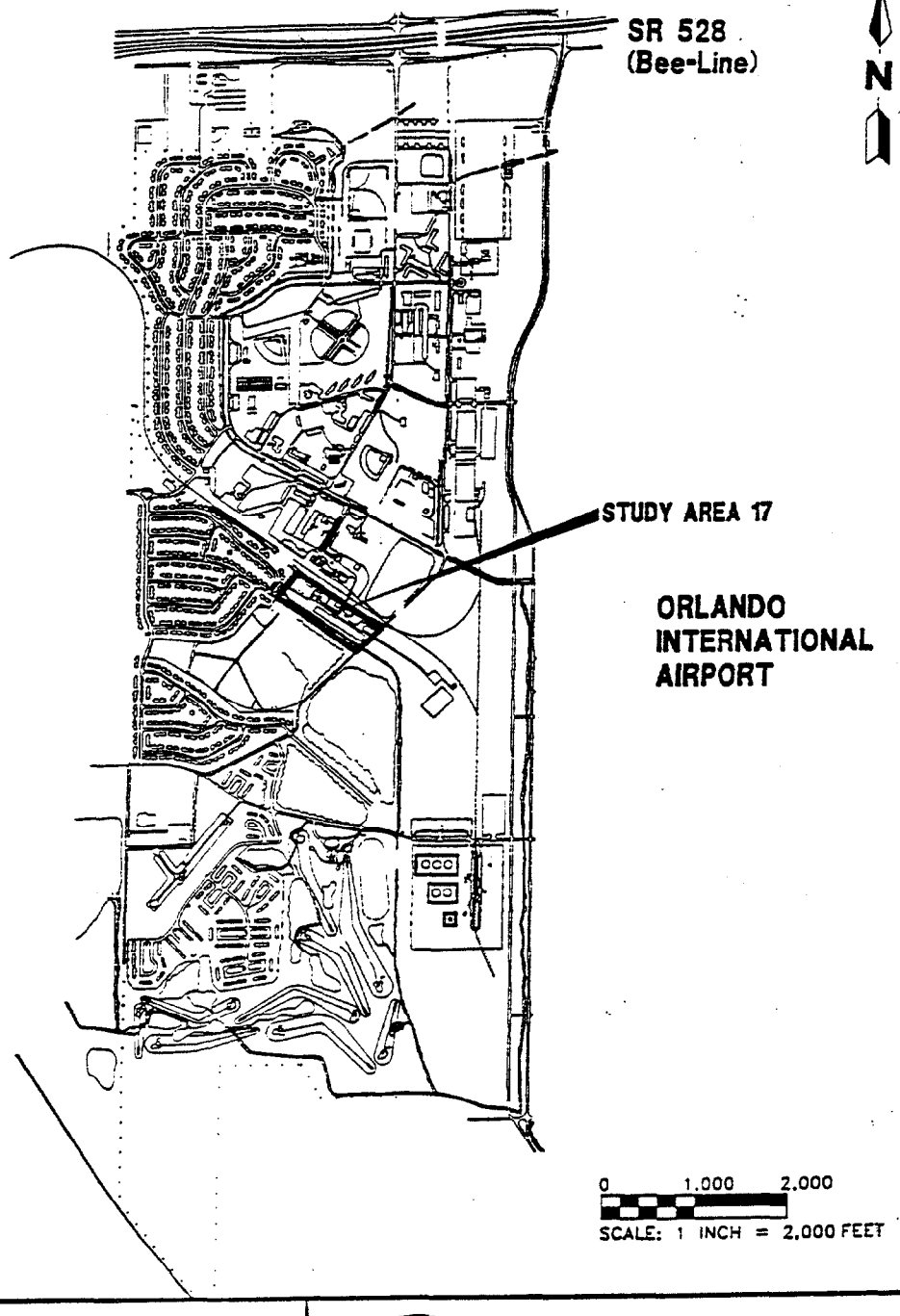


FIGURE 1
LOCATION OF STUDY AREA 17

BASE REALIGNMENT AND CLOSURE
WORK PLAN FOR INTERIM REMEDIAL ACTION, STUDY AREA 17

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

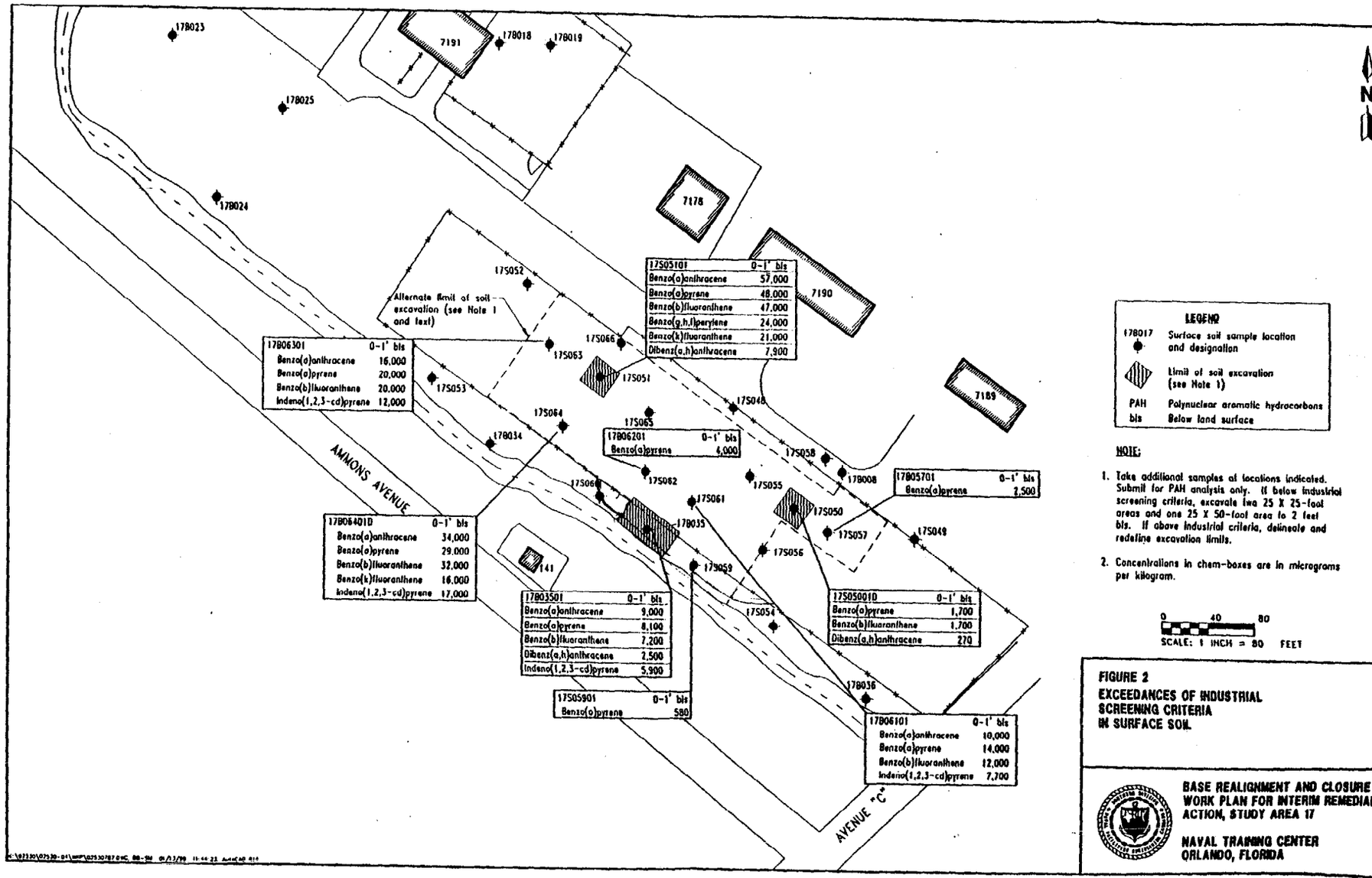
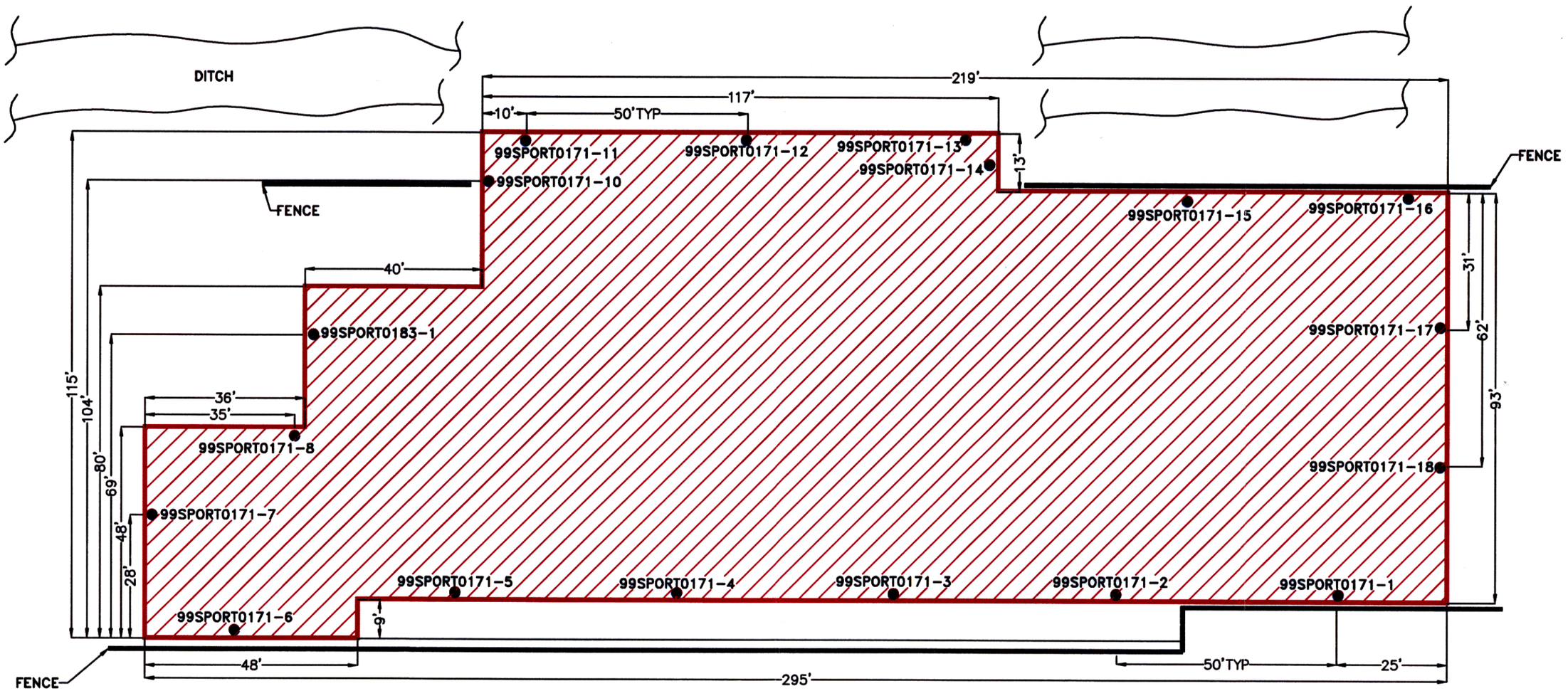


FIGURE 2
EXCEEDANCES OF INDUSTRIAL SCREENING CRITERIA IN SURFACE SOIL

BASE REALIGNMENT AND CLOSURE WORK PLAN FOR INTERIM REMEDIAL ACTION, STUDY AREA 17

NAVAL TRAINING CENTER ORLANDO, FLORIDA



LEGEND

- CONFIRMATORY SAMPLE POINT
- EXCAVATED TO 2 FEET DEEP

N

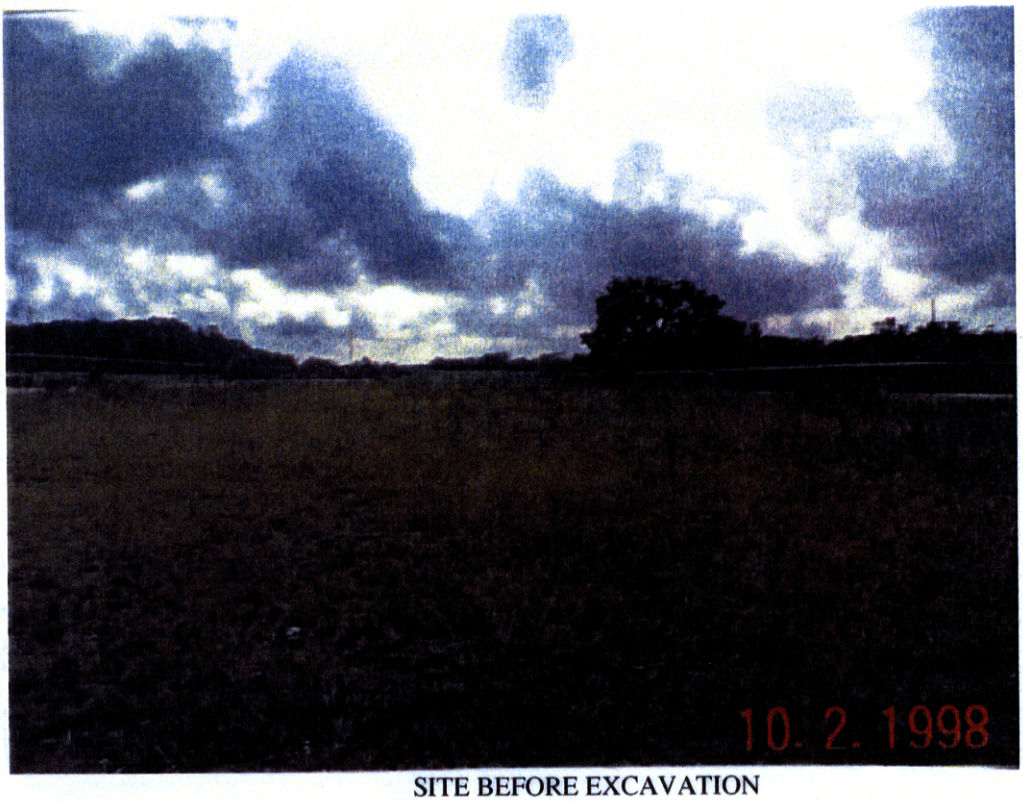
ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE – BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 3
McCOY ANNEX ORLANDO SA 17
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS

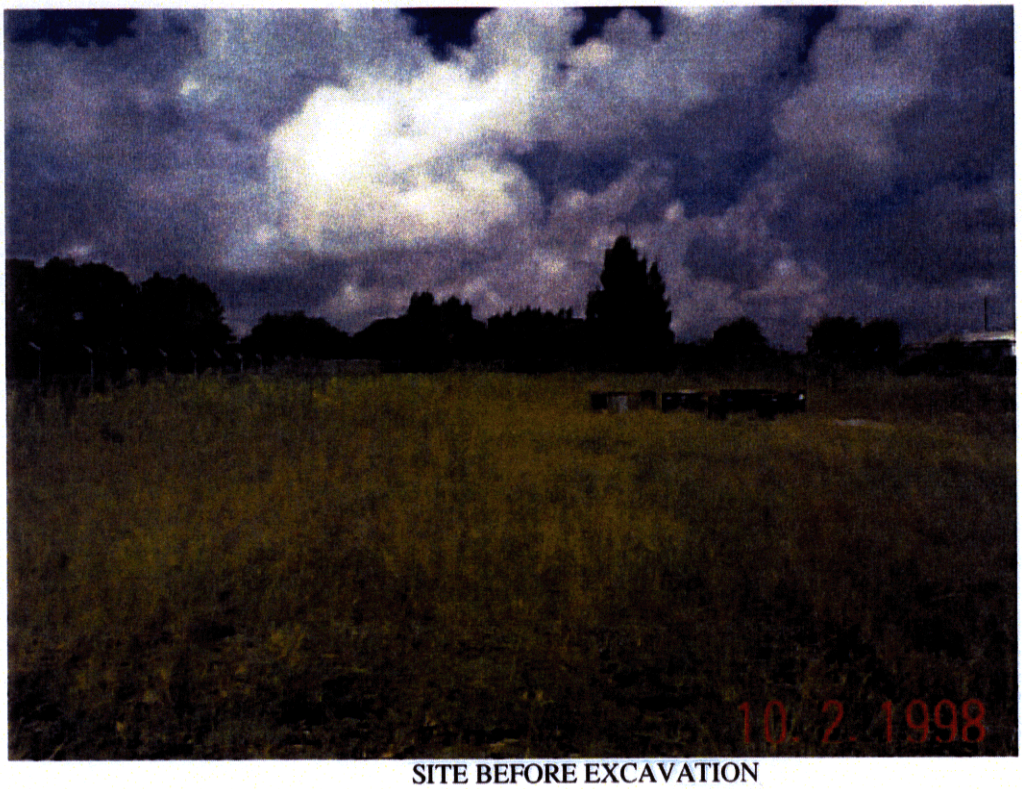
DATE	PREPARED BY:	REV
17 AUGUST 1999	A. J. MOYER	–

SCALE: NONE | SHEET

00449E014



SITE BEFORE EXCAVATION



SITE BEFORE EXCAVATION

00449FB2Y

SITE DURING EXCAVATION

SITE DURING EXCAVATION

SILT FENCING

SITE AFTER BACKFILL

HYDROSEEDING OF SITE

SITE AFTER HYDROSEEDING

CLEAN FILL CERTIFICATION

Client:	Environmental Detachment Charleston	Report #: OR6391 Date Submitted: Date Reported:	 27-Apr-99 5-May-99
Address:	1899 N. Hobson Ave Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6391-9	K FILL FL	4/26/99 16:30	FLPRO	Hydrocarbons (C8-C40)	7.4	U	1	mg/Kg	7.4	7.4
OR6391-9	K FILL FL	4/26/99 16:30	FLPRO	o-Terphenyl	82		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6391-9	K FILL FL	4/26/99 16:30	SM2540G	Percent Solids	89			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

QS[illegible]F #_____

ENVIRONME[illegible]AL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
NTC Orlando		

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE / FAX
FL.	Rusty Cope	496-2173 / 869-5468

CLIENT NAME	CLIENT PROJECT MANAGER
Enu Det Chas	A. Moyer

CLIENT ADDRESS (CITY, STATE, ZIP): 1899 N. Hobson Ave N. Chas. SC 29405

PAGE ____ OF ____

☐ STANDARD REPORT DELIVERY

☐ EXPEDITED REPORT DELIVERY (surcharge)

Date Due: 4-30-99

STATION	SAMPLE DATE	SAMPLE TIME	GRAB	COMP	SAMPLE IDENTIFICATION	MATRIX TYPE: SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	REQUIRED ANALYSIS: Pesticides	FL TRPH	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
1	4/27/99	1010			SA8S004					X					1				
2		1015			SA8S005					X					1				
3		1018			SA8S006					X					1				
4		1022			SA8S007					X					1				
5		1027			SA8S008					X					1				
6		1033			SA8S009					X					1				
7		1038			SA8S010					X					1				
8		1044			SA8S011					X					1				
9	4/26/99	1630			Back Fill FL TRPH					X						1			
10																			
11																			
12																			
13																			
14																			

SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
RELINQUISHED BY: (SIGNATURE) Rusty Cope	4/27/99	1530	RECEIVED BY: (SIGNATURE) James W. Gregory	4/27/99	1530	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) ☐ Jacksonvil ☑ Orlando	DATE	TIME	CUSTODY INTACT ☐ YES ☑ NO	ENCO LOG NO.	REMARKS
T. Pe[illegible]n	4-27-99	17:00		OR63	

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 04, 1999

Sample ID : 99SPORT0160-1
Lab ID : 9904806-01
Matrix : Soil
Date Collected : 04/24/99
Date Received : 04/27/99
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
olynuclear Aromatic Hydrocarbons - 18 items											
1-Methylnaphthalene	U	ND	6.58	33.3	ug/kg	1.0	TSD	04/30/99	0013	147797	1
2-Methylnaphthalene	U	ND	6.58	33.3	ug/kg	1.0					
Acenaphthene	U	ND	6.58	33.3	ug/kg	1.0					
Acenaphthylene	U	ND	6.58	33.3	ug/kg	1.0					
Anthracene	U	ND	6.58	33.3	ug/kg	1.0					
Benzo(a)anthracene	U	ND	6.58	33.3	ug/kg	1.0					
Benzo(a)pyrene	U	ND	6.58	33.3	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	6.58	33.3	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	6.58	33.3	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	6.58	33.3	ug/kg	1.0					
Chrysene	U	ND	6.58	33.3	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	26.3	33.3	ug/kg	1.0					
Fluoranthene	U	ND	6.58	33.3	ug/kg	1.0					
Fluorene	U	ND	6.58	33.3	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	23.0	33.3	ug/kg	1.0					
Naphthalene	U	ND	6.58	33.3	ug/kg	1.0					
Phenanthrene	U	ND	6.58	33.3	ug/kg	1.0					
Pyrene	U	ND	6.58	33.3	ug/kg	1.0					
Metals Analysis											
Arsenic	U	ND	441	485	ug/kg	2.0	MBL	04/30/99	1758	147784	2

The following prep procedures were performed:

GC/MS Base/Neutral Compounds	CPU	04/28/99	1700	147797 3
TRACE	FGD	04/28/99	1330	147784 4

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9904806-01

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 04, 1999

Sample ID : 99SPORT0160-1

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610-5972	68.1	(44.7 - 110.)
Nitrobenzene-d5	M610-5972	69.8	(42.4 - 107.)
p-Terphenyl-d14	M610-5972	90.9	(45.5 - 104.)

M = Method	Method-Description
M 1	EPA 8270
M 2	EPA 6010B
M 3	EPA 3550
M 4	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 04, 1999

Sample ID : 99SPORT0160-2
Lab ID : 9904806-02
Matrix : GroundH2O
Date Collected : 04/24/99
Date Received : 04/27/99
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 18 items											
1-Methylnaphthalene	U	ND	0.500	1.00	ug/l	1.0	TSD	04/28/99	1825	147798	1
2-Methylnaphthalene	U	ND	0.600	1.00	ug/l	1.0					
Acenaphthene	U	ND	0.400	1.00	ug/l	1.0					
Acenaphthylene	U	ND	0.500	1.00	ug/l	1.0					
Anthracene	U	ND	0.400	1.00	ug/l	1.0					
Benzo(a)anthracene	U	ND	0.400	1.00	ug/l	1.0					
Benzo(a)pyrene	U	ND	0.200	1.00	ug/l	1.0					
Benzo(b)fluoranthene	U	ND	0.300	1.00	ug/l	1.0					
Benzo(ghi)perylene	U	ND	0.400	1.00	ug/l	1.0					
Benzo(k)fluoranthene	U	ND	0.300	1.00	ug/l	1.0					
Chrysene	U	ND	0.500	1.00	ug/l	1.0					
Dibenzo(a,h)anthracene	U	ND	0.400	1.00	ug/l	1.0					
Fluoranthene	U	ND	0.500	1.00	ug/l	1.0					
Fluorene	U	ND	0.400	1.00	ug/l	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	6.20	6.20	ug/l	1.0					
Naphthalene	U	ND	0.600	1.00	ug/l	1.0					
Phenanthrene	U	ND	0.400	1.00	ug/l	1.0					
Pyrene	U	ND	0.400	1.00	ug/l	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds HDB 04/28/99 1000 147798 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610-5972	79.2	(41.2 - 107.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9904806-02

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 04, 1999

Sample ID : 99SPORT0160-2

Surrogate Recovery	Test	Percent%	Acceptable Limits
Nitrobenzene-d5	M610-5972	81.2	(35.3 - 108.)
p-Terphenyl-d14	M610-5972	90.8	(36.6 - 110.)

M = Method	Method-Description
M 1	EPA 8270C
2	EPA 3510

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 04, 1999

Sample ID : 99SPORT0160-3
Lab ID : 9904806-03
Matrix : Soil
Date Collected : 04/25/99
Date Received : 04/27/99
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
ppendix IX Volatiles - 55 items											
,1,1,2-Tetrachloroethane	U	ND	0.266	1.33	ug/kg	1.0	JEB	04/27/99	1506	147702	1
1,1,1-Trichloroethane	U	ND	0.133	1.33	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.798	1.33	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.399	1.33	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.133	1.33	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.399	1.33	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.532	1.33	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.532	1.33	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.266	1.33	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.665	1.33	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.266	1.33	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.266	1.33	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.133	1.33	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.133	1.33	ug/kg	1.0					
2-Butanone	U	ND	4.26	6.65	ug/kg	1.0					
2-Hexanone	U	ND	3.72	6.65	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	4.12	6.65	ug/kg	1.0					
Acetone	U	ND	13.7	13.7	ug/kg	1.0					
Acetonitrile	U	ND	1.33	33.3	ug/kg	1.0	JEB	04/28/99	1029	147702	1
Acrolein	U	ND	6.12	13.3	ug/kg	1.0	JEB	04/27/99	1506	147702	1
Acrylonitrile	U	ND	5.19	13.3	ug/kg	1.0					
Allyl Chloride	U	ND	0.532	6.65	ug/kg	1.0					
Benzene	U	ND	0.665	1.33	ug/kg	1.0					
Bromoform	U	ND	0.399	1.33	ug/kg	1.0					
Carbon Disulfide	U	ND	0.399	6.65	ug/kg	1.0					
arbon Tetrachloride	U	ND	0.665	1.33	ug/kg	1.0					
Chlorobenzene	U	ND	0.399	1.33	ug/kg	1.0					

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 04, 1999

Sample ID : 99SPORT0160-3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.266	1.33	ug/kg	1.0					
Chloroethane	U	ND	0.399	1.33	ug/kg	1.0	JEB	04/27/99	1506	147702	1
Chloroform	U	ND	0.133	1.33	ug/kg	1.0					
Chloroprene	U	ND	13.3	26.6	ug/kg	1.0					
Dibromomethane	U	ND	0.266	1.33	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.133	1.33	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.60	1.60	ug/kg	1.0					
hylbenzene	U	ND	0.399	1.33	ug/kg	1.0					
obutyl Alcohol	U	ND	8.38	13.3	ug/kg	1.0					
Methacrylonitrile	U	ND	1.20	6.65	ug/kg	1.0					
Methyl Bromide	U	ND	0.399	1.33	ug/kg	1.0					
Methyl Chloride	U	ND	0.266	1.33	ug/kg	1.0					
Methyl Iodide	U	ND	0.798	6.65	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.532	6.65	ug/kg	1.0					
Methylene Chloride	U	ND	1.86	1.86	ug/kg	1.0					
Propionitrile	U	ND	4.52	13.3	ug/kg	1.0					
Styrene	U	ND	0.399	1.33	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.532	1.33	ug/kg	1.0					
Toluene	U	ND	1.20	1.33	ug/kg	1.0					
Trichloroethylene	U	ND	0.399	1.33	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.399	1.33	ug/kg	1.0					
Vinyl Acetate	U	ND	2.79	6.65	ug/kg	1.0					
Vinyl chloride	U	ND	0.532	1.33	ug/kg	1.0					
Xylenes (TOTAL)	U	ND	0.931	2.66	ug/kg	1.0					
bis(2-Chloromethylethyl)ether	U	ND	6.77	13.3	ug/kg	1.0					
cis-1.3-Dichloropropylene	U	ND	0.266	1.33	ug/kg	1.0					
trans-1.3-Dichloropropylene	U	ND	0.399	1.33	ug/kg	1.0					
trans-1.4-Dichloro-2-butene	U	ND	0.665	6.65	ug/kg	1.0					
Extractable Organics											
Appendix IX Acid Compounds - 18 items											
2.3.4.6-Tetrachlorophenol	U	ND	283	330	ug/kg	1.0	TSD	04/30/99	0044	147797	2
2.4.5-Trichlorophenol	U	ND	151	330	ug/kg	1.0					
2.4.6-Trichlorophenol	U	ND	75.7	330	ug/kg	1.0					
l-Dichlorophenol	U	ND	174	330	ug/kg	1.0					
.4-Dimethylphenol	U	ND	109	330	ug/kg	1.0					

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 04, 1999

Sample ID : 99SPORT0160-3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
2,4-Dinitrophenol	U	ND	362	660	ug/kg	1.0					
2,6-Dichlorophenol	U	ND	30.6	330	ug/kg	1.0	TSD	04/30/99	0044	147797	2
2-Chlorophenol	U	ND	155	330	ug/kg	1.0					
2-Nitrophenol	U	ND	178	330	ug/kg	1.0					
2-methyl-4,6-dinitrophenol	U	ND	98.7	330	ug/kg	1.0					
2-sec-Butyl-4,6-Dinitrophenol	U	ND	326	330	ug/kg	1.0					
4-Nitrophenol	U	ND	109	330	ug/kg	1.0					
-chloro-3-methyl phenol	U	ND	125	330	ug/kg	1.0					
Hexachlorophene	U	ND	10600	16500	ug/kg	1.0					
Pentachlorophenol	U	ND	55.9	660	ug/kg	1.0					
Phenol	U	ND	55.9	330	ug/kg	1.0					
m,p-Cresol	U	ND	151	330	ug/kg	1.0					
o-Cresol	U	ND	62.5	330	ug/kg	1.0					
Appendix IX Base/Neutral Compounds - 103 items											
1,2,4,5-Tetrachlorobenzene	U	ND	184	330	ug/kg	1.0					
1,2,4-Trichlorobenzene	U	ND	184	330	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	168	330	ug/kg	1.0					
1,3-Dichlorobenzene	U	ND	128	330	ug/kg	1.0					
1,4-Dichlorobenzene	U	ND	60.2	330	ug/kg	1.0					
1,4-Dioxane	U	ND	329	330	ug/kg	1.0					
1,4-Naphthoquinone	U	ND	329	330	ug/kg	1.0					
1-Naphthylamine	U	ND	165	330	ug/kg	1.0					
2,4-Dinitrotoluene	U	ND	115	330	ug/kg	1.0					
2,6-Dinitrotoluene	U	ND	138	330	ug/kg	1.0					
2-Acetylaminofluorene	U	ND	329	330	ug/kg	1.0					
2-Chloronaphthalene	U	ND	171	330	ug/kg	1.0					
2-Methylnaphthalene	U	ND	201	330	ug/kg	1.0					
2-Naphthylamine	U	ND	316	330	ug/kg	1.0					
2-Picoline	U	ND	398	660	ug/kg	1.0					
3,3'-Dichlorobenzidine	U	ND	273	660	ug/kg	1.0					
3,3'-Dimethylbenzidine	U	ND	165	660	ug/kg	1.0					
3-Methylcholanthrene	U	ND	329	330	ug/kg	1.0					
4-Bromophenyl phenyl ether	U	ND	115	330	ug/kg	1.0					
-Chloroaniline	U	ND	151	660	ug/kg	1.0					
4-Chlorophenyl phenyl ether	U	ND	145	330	ug/kg	1.0					

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 04, 1999

Sample ID : 99SPORT0160-3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
4-Nitroquinoline 1-oxide	U	ND	296	330	ug/kg	1.0					
4-aminobiphenyl	U	ND	21.4	330	ug/kg	1.0	TSD	04/30/99	0044	147797	2
5-Nitro-o-toluidine	U	ND	194	330	ug/kg	1.0					
7,12-Dimethylbenz(a)anthracene	U	ND	313	330	ug/kg	1.0					
Acenaphthene	U	ND	158	330	ug/kg	1.0					
Acenaphthylene	U	ND	145	330	ug/kg	1.0					
Acetophenone	U	ND	125	330	ug/kg	1.0					
niline	U	ND	148	330	ug/kg	1.0					
thracene	U	ND	85.5	330	ug/kg	1.0					
Aramite	U	ND	273	330	ug/kg	1.0					
Benzo(a)anthracene	U	ND	65.8	330	ug/kg	1.0					
Benzo(a)pyrene	U	ND	72.4	330	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	141	330	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	79.0	330	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	132	330	ug/kg	1.0					
Benzyl Alcohol	U	ND	227	330	ug/kg	1.0					
Butyl benzyl phthalate	U	ND	88.8	330	ug/kg	1.0					
Chlorobenzilate	U	ND	52.6	330	ug/kg	1.0	TSD	04/30/99	1211	147797	2
Chrysene	U	ND	52.6	330	ug/kg	1.0	TSD	04/30/99	0044	147797	2
Di-n-butyl phthalate	U	ND	72.4	330	ug/kg	1.0					
Di-n-octyl phthalate	U	ND	171	330	ug/kg	1.0					
Diallate	U	ND	227	330	ug/kg	1.0	TSD	04/30/99	1211	147797	2
Dibenzo(a,h)anthracene	U	ND	82.3	330	ug/kg	1.0	TSD	04/30/99	0044	147797	2
Dibenzofuran	U	ND	132	330	ug/kg	1.0					
Diethyl phthalate	U	ND	75.7	330	ug/kg	1.0					
Dimethoate	U	ND	263	330	ug/kg	1.0	TSD	04/30/99	1211	147797	2
Dimethyl phthalate	U	ND	109	330	ug/kg	1.0	TSD	04/30/99	0044	147797	2
Diphenylamine	U	ND	283	330	ug/kg	1.0					
Disulfoton	U	ND	45.7	330	ug/kg	1.0	TSD	04/30/99	1211	147797	2
Ethyl Methanesulfonate	U	ND	20.1	330	ug/kg	1.0	TSD	04/30/99	0044	147797	2
Ethyl methacrylate	U	ND	29.3	330	ug/kg	1.0					
Famphur	U	ND	52.3	330	ug/kg	1.0	TSD	04/30/99	1211	147797	2
Fluoranthene	U	ND	65.8	330	ug/kg	1.0	TSD	04/30/99	0044	147797	2
orene	U	ND	112	330	ug/kg	1.0					
exachlorobenzene	U	ND	69.1	330	ug/kg	1.0					

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 04, 1999

Sample ID : 99SPORT0160-3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Hexachlorobutadiene	U	ND	151	330	ug/kg	1.0					
Hexachlorocyclopentadiene	U	ND	191	330	ug/kg	1.0	TSD	04/30/99	0044	147797	2
Hexachloroethane	U	ND	132	330	ug/kg	1.0					
Hexachloropropene	U	ND	20.7	330	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	79.0	330	ug/kg	1.0					
Isodrin	U	ND	145	330	ug/kg	1.0	TSD	04/30/99	1211	147797	2
Isophorone	U	ND	145	330	ug/kg	1.0	TSD	04/30/99	0044	147797	2
Isosafrole	U	ND	21.4	330	ug/kg	1.0					
Kepone	U	ND	96.4	330	ug/kg	1.0	TSD	04/30/99	1211	147797	2
Methapyrilene	U	ND	158	330	ug/kg	1.0	TSD	04/30/99	0044	147797	2
Methyl Methacrylate	U	ND	73.4	330	ug/kg	1.0					
Methyl Methanesulfonate	U	ND	299	330	ug/kg	1.0					
N-Nitrosodi-n-butylamine	U	ND	22.7	330	ug/kg	1.0					
N-Nitrosodiethylamine	U	ND	20.4	330	ug/kg	1.0					
N-Nitrosodimethylamine	U	ND	10.2	330	ug/kg	1.0					
N-Nitrosodiphenylamine	U	ND	20.4	330	ug/kg	1.0					
N-Nitrosodipropylamine	U	ND	128	330	ug/kg	1.0					
N-Nitrosomethylethylamine	U	ND	72.1	330	ug/kg	1.0					
N-Nitrosomorpholine	U	ND	24.3	330	ug/kg	1.0					
N-Nitrosopiperidine	U	ND	217	330	ug/kg	1.0					
N-Nitrosopyrolidine	U	ND	22.0	330	ug/kg	1.0					
Naphthalene	U	ND	155	330	ug/kg	1.0					
Nitrobenzene	U	ND	132	330	ug/kg	1.0					
O,O,O-Triethylphosphorothioate	U	ND	230	330	ug/kg	1.0	TSD	04/30/99	1211	147797	2
Pentachlorobenzene	U	ND	26.3	330	ug/kg	1.0	TSD	04/30/99	0044	147797	2
Pentachloroethane	U	ND	44.1	330	ug/kg	1.0					
Pentachloronitrobenzene	U	ND	230	330	ug/kg	1.0					
Phenacetin	U	ND	191	330	ug/kg	1.0					
Phenanthrene	U	ND	59.2	330	ug/kg	1.0					
Pronamide	U	ND	214	330	ug/kg	1.0					
Pyrene	U	ND	72.4	330	ug/kg	1.0					
Pyridine	U	ND	69.1	330	ug/kg	1.0					
Safrole	U	ND	17.4	330	ug/kg	1.0					
Sulfotepp	U	ND	42.8	330	ug/kg	1.0	TSD	04/30/99	1211	147797	2
a-,a-Dimethylphenethylamine	U	ND	105	330	ug/kg	1.0	TSD	04/30/99	0044	147797	2

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

Sample ID : 99SPORT0160-3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
bis(2-Chloroethoxy)methane	U	ND	168	330	ug/kg	1.0					
bis(2-Chloroethyl) ether	U	ND	52.6	330	ug/kg	1.0	TSD	04/30/99	0044	147797	2
bis(2-Ethylhexyl)phthalate	U	ND	296	330	ug/kg	1.0					
m-Dinitrobenzene	U	ND	29.3	330	ug/kg	1.0					
m-Nitroaniline	U	ND	82.3	330	ug/kg	1.0					
o-Nitroaniline	U	ND	65.8	330	ug/kg	1.0					
o-Toluidine	U	ND	276	330	ug/kg	1.0					
Dimethylaminoazobenzene	U	ND	207	330	ug/kg	1.0					
p-Nitroaniline	U	ND	102	330	ug/kg	1.0					
p-Phenylenediamine	U	ND	499	660	ug/kg	1.0					
sym-Trinitrobenzene	U	ND	128	330	ug/kg	1.0					
Appendix IX - Herbicides - 5 items											
2,4,5-T	U	ND	0.173	3.00	ug/kg	10.	JC	05/04/99	0352	147832	3
2,4,5-TP	U	ND	0.199	3.00	ug/kg	10.					
2,4-D	U	ND	0.292	3.00	ug/kg	10.					
4-(2,4-Dichlorophenoxy)Butyric		0.00			ug/kg						
Dicamba	U	ND	5.40	27.0	ug/kg	10.					
Appendix IX PCBs - 7 items											
PCB-1016	U	ND	1.22	3.33	ug/kg	1.0	JC	04/30/99	2012	147870	4
PCB-1221	U	ND	2.82	3.33	ug/kg	1.0					
PCB-1232	U	ND	1.63	3.33	ug/kg	1.0					
PCB-1242	U	ND	1.67	3.33	ug/kg	1.0					
PCB-1248	U	ND	0.906	3.33	ug/kg	1.0					
PCB-1254	U	ND	1.16	3.33	ug/kg	1.0					
PCB-1260	U	ND	0.942	3.33	ug/kg	1.0					
Appendix IX - Organochlorine Pesticides - 29 items											
4,4'-DDD	U	ND	0.596	1.33	ug/kg	1.0	SJ	05/04/99	0506	147876	5
4,4'-DDE	U	ND	0.556	1.33	ug/kg	1.0					
4,4'-DDT	J	1.01	0.806	1.33	ug/kg	1.0					
Aldrin	U	ND	0.263	0.670	ug/kg	1.0					
Chlordane	U	ND	4.94	8.33	ug/kg	1.0					
Dieldrin	U	ND	0.743	1.33	ug/kg	1.0					
Endosulfan I	U	ND	0.460	0.670	ug/kg	1.0					
Endosulfan II	U	ND	0.689	1.33	ug/kg	1.0					
Endosulfan sulfate	U	ND	0.922	0.922	ug/kg	1.0					

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 04, 1999

Sample ID : 99SPORT0160-3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Endrin	U	ND	0.689	1.33	ug/kg	1.0					
Endrin aldehyde	U	ND	1.01	1.33	ug/kg	1.0	SJ	05/04/99	0506	147876	5
Heptachlor	U	ND	0.440	0.670	ug/kg	1.0					
Heptachlor epoxide	U	ND	0.220	0.670	ug/kg	1.0					
Methoxychlor	U	ND	3.59	6.70	ug/kg	1.0					
PCB-1016	U	ND	1.22	3330	ug/kg	1.0					
PCB-1221	U	ND	2.82	3330	ug/kg	1.0					
PCB-1232	U	ND	1.63	3330	ug/kg	1.0					
PCB-1242	U	ND	1.67	3330	ug/kg	1.0					
PCB-1248	U	ND	0.906	3330	ug/kg	1.0					
PCB-1254	U	ND	1.16	3330	ug/kg	1.0					
PCB-1260	U	ND	0.942	3330	ug/kg	1.0					
Toxaphene	U	ND	11.1	33.3	ug/kg	1.0					
alpha-BHC	U	ND	0.266	0.670	ug/kg	1.0					
beta-BHC	U	ND	0.393	0.670	ug/kg	1.0					
delta-BHC	U	ND	0.286	0.670	ug/kg	1.0					
gamma-BHC	U	ND	0.353	0.670	ug/kg	1.0					
Metals Analysis											
Mercury	J	0.0735	0.00204	0.100	mg/kg	1.0	RMJ	04/30/99	1556	147863	6
Silver	U	ND	67.2	467	ug/kg	2.0	MBL	04/30/99	1804	147784	7
Arsenic	U	ND	425	467	ug/kg	2.0					
Barium		12400	50.4	467	ug/kg	2.0					
Beryllium	J	57.8	22.4	467	ug/kg	2.0					
Cadmium	U	ND	35.5	467	ug/kg	2.0					
Cobalt	J	31.9	30.8	467	ug/kg	2.0					
Chromium		5500	71.0	467	ug/kg	2.0					
Copper		505	125	467	ug/kg	2.0					
Nickel		705	58.8	467	ug/kg	2.0					
Lead		6340	147	467	ug/kg	2.0					
Antimony	U	ND	356	934	ug/kg	2.0					
Selenium	J	438	252	467	ug/kg	2.0					
Tin	U	ND	778	934	ug/kg	2.0					
Thallium	U	ND	412	934	ug/kg	2.0					
Vanadium		3200	49.5	467	ug/kg	2.0					
Zinc	J	447	346	467	ug/kg	2.0					

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8745
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

Sample ID : 99SPORT0160-3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
General Chemistry											
Cyanide, Total	U	ND	0.135	0.500	mg/kg	1.0	HSC	04/28/99	1517	147803	8

The following prep procedures were performed:

Volatiles 8260 High Level	JEB	04/27/99	1423	147702 9
GC/MS Acid Compounds	CPU	04/28/99	1700	14779710
GC/MS Base/Neutral Compounds	CPU	04/28/99	1700	14779710
Herbicides	HDB	04/29/99	1430	14783211
PCB's	RDH	04/29/99	1500	14787010
Pesticides	RDH	04/29/99	1200	14787610
Mercury	AJM	04/28/99	1915	14786312
TRACE	FGD	04/28/99	1330	14778413

Surrogate Recovery	Test	Percent %	Acceptable Limits
2,4,6-Tribromophenol	APP 9 ACID-8270	75.0	(44.5 - 126.)
2-Fluorophenol	APP 9 ACID-8270	74.7	(37.0 - 102.)
Phenol-d6	APP 9 ACID-8270	79.0	(41.5 - 102.)
2-Fluorobiphenyl	APP 9 B/N-8270	70.5	(44.7 - 110.)
Nitrobenzene-d5	APP 9 B/N-8270	72.0	(42.4 - 107.)
p-Terphenyl-d14	APP 9 B/N-8270	93.5	(45.5 - 104.)
2,4-Dichlorophenylacetic acid	APP 9 HERB-8151	61.6	(24.0 - 111.)
4CMX	APP 9 PCB-8082	61.5	(25.3 - 110.)
Decachlorobiphenyl	APP 9 PCB-8082	88.5	(46.8 - 131.)
4CMX	APP 9 PEST-8081	71.8	(36.5 - 131.)
4CMX	APP 9 PEST-8081	71.8	(36.5 - 131.)
Decachlorobiphenyl	APP 9 PEST-8081	76.8	(50.7 - 135.)
Decachlorobiphenyl	APP 9 PEST-8081	76.8	(50.7 - 135.)
Bromofluorobenzene	APP 9 VOA-8260B	110.	(73.0 - 129.)
Dibromofluoromethane	APP 9 VOA-8260B	106.	(66.0 - 117.)
Toluene-d8	APP 9 VOA-8260B	110.	(73.0 - 122.)

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 04, 1999

Sample ID : 99SPORT0160-3

M = Method	Method-Description
M 1	EPA 8260B
M 2	SW846 8270B
M 3	EPA 8151
M 4	EPA 8082
M 5	SW846 8081
M 6	EPA 7471
M 7	EPA 6010A
M 8	SW846 9013
M 9	EPA 5035
M 10	EPA 3550
M 11	EPA 8150
M 12	EPA 7471A
M 13	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8745
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 04, 1999

Sample ID : 99SPORT0160-3
Lab ID : 9904806-04
Matrix : Soil
Date Collected : 04/25/99
Date Received : 04/27/99
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Method 8280 - Dioxins - 9 items											
1,2,3,4,6,7,8-HpCDD	U	ND	0.130	1.00	ug/kg	1.0	RLC	04/30/99	1518	147894	1
1,2,3,4,7,8-HxCDD	U	ND	0.156	1.00	ug/kg	1.0					
1,2,3,7,8-PCDD	U	ND	0.108	1.00	ug/kg	1.0					
2,3,7,8-TCDD	U	ND	0.0611	1.00	ug/kg	1.0					
Octachlorodibenzo-p-dioxin	U	ND	0.0866	1.00	ug/kg	1.0					
Other HpCDD Isomers	U	ND	0.500	1.00	ug/kg	1.0					
Other HxCDD Isomers	U	ND	0.500	1.00	ug/kg	1.0					
Other PCDD Isomers	U	ND	0.500	1.00	ug/kg	1.0					
Other TCDD Isomers	U	ND	0.500	1.00	ug/kg	1.0					

The following prep procedures were performed:

Dioxins & Furans RLC 04/29/99 0800 147894 1

M = Method	Method-Description
M 1	EPA 8280

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
'ndicates that a quality control analyte recovery is outside of specified acceptance criteria.

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 04, 1999

Sample ID : 99SPORT0160-3

M = Method	Method-Description

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8745
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 04, 1999

Sample ID	: TRIP BLANK 99SPORT0160-4
Lab ID	: 9904806-05
Matrix	: GroundH2O
Date Collected	: 04/26/99
Date Received	: 04/27/99
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
ppendix IX Volatiles - 55 items											
1,1,1,2-Tetrachloroethane	U	ND	0.300	1.00	ug/l	1.0	JEB	04/28/99	1057	147812	1
1,1,1-Trichloroethane	U	ND	0.200	1.00	ug/l	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.500	1.00	ug/l	1.0					
1,1,2-Trichloroethane	U	ND	0.400	1.00	ug/l	1.0					
1,1-Dichloroethane	U	ND	0.400	1.00	ug/l	1.0					
1,1-Dichloroethylene	U	ND	0.700	1.00	ug/l	1.0					
1,2,3-Trichloropropane	U	ND	0.500	1.00	ug/l	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.600	1.00	ug/l	1.0					
1,2-Dibromoethane	U	ND	0.400	1.00	ug/l	1.0					
1,2-Dichlorobenzene	U	ND	0.400	1.00	ug/l	1.0					
1,2-Dichloroethane	U	ND	0.200	1.00	ug/l	1.0					
1,2-Dichloropropane	U	ND	0.200	1.00	ug/l	1.0					
1,2-cis-Dichloroethylene	U	ND	0.700	1.00	ug/l	1.0					
1,2-trans-Dichloroethylene	U	ND	0.700	1.00	ug/l	1.0					
2-Butanone	U	ND	5.90	10.0	ug/l	1.0					
2-Hexanone	U	ND	3.20	5.00	ug/l	1.0					
4-Methyl-2-pentanone	U	ND	1.60	5.00	ug/l	1.0					
Acetone	J	3.99	3.70	5.00	ug/l	1.0					
Acetonitrile	U	ND	15.6	25.0	ug/l	1.0					
Acrolein	U	ND	8.90	10.0	ug/l	1.0					
Acrylonitrile	U	ND	8.20	10.0	ug/l	1.0					
Allyl Chloride	U	ND	2.10	5.00	ug/l	1.0					
Benzene	U	ND	0.300	1.00	ug/l	1.0					
Bromoform	U	ND	0.400	1.00	ug/l	1.0					
Carbon Disulfide	U	ND	1.80	5.00	ug/l	1.0					
Carbon Tetrachloride	U	ND	0.200	1.00	ug/l	1.0					
Chlorobenzene	U	ND	0.300	1.00	ug/l	1.0					

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston. South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

Sample ID : TRIP BLANK 99SPORT0160-4

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.300	1.00	ug/l	1.0					
Chloroethane	U	ND	0.300	1.00	ug/l	1.0	JEB	04/28/99	1057	147812	1
Chloroform	U	ND	0.700	1.00	ug/l	1.0					
Chloroprene	U	ND	0.100	20.0	ug/l	1.0					
Dibromomethane	U	ND	0.200	1.00	ug/l	1.0					
Dichlorobromomethane	U	ND	0.400	1.00	ug/l	1.0					
Dichlorodifluoromethane	U	ND	1.20	5.00	ug/l	1.0					
hylbenzene	U	ND	0.300	1.00	ug/l	1.0					
sobutyl Alcohol	U	ND	36.0	50.0	ug/l	1.0					
Methacrylonitrile	U	ND	3.80	5.00	ug/l	1.0					
Methyl Bromide	U	ND	0.300	1.00	ug/l	1.0					
Methyl Chloride	U	ND	0.200	1.00	ug/l	1.0					
Methyl Iodide	U	ND	5.20	10.0	ug/l	1.0					
Methyl Methacrylate	U	ND	3.90	5.00	ug/l	1.0					
Methylene Chloride	J	2.28	1.20	5.00	ug/l	1.0					
Propionitrile	U	ND	2.60	10.0	ug/l	1.0					
Styrene	U	ND	0.200	1.00	ug/l	1.0					
Tetrachloroethylene	U	ND	0.700	1.00	ug/l	1.0					
Toluene	U	ND	0.500	1.00	ug/l	1.0					
Trichloroethylene	U	ND	0.600	1.00	ug/l	1.0					
Trichlorofluoromethane	U	ND	1.70	5.00	ug/l	1.0					
Vinyl Acetate	U	ND	1.80	5.00	ug/l	1.0					
Vinyl chloride	U	ND	0.400	1.00	ug/l	1.0					
Xylenes (TOTAL)	U	ND	1.10	2.00	ug/l	1.0					
bis(2-Chloromethylethyl)ether	U	ND	3.70	10.0	ug/l	1.0					
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/l	1.0					
trans-1.3-Dichloropropylene	U	ND	0.300	1.00	ug/l	1.0					
trans-1,4-Dichloro-2-butene	U	ND	2.80	5.00	ug/l	1.0					

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	109.	(73.0 - 129.)
ibromofluoromethane	APP 9 VOA-8260B	105.	(66.0 - 117.)
oluene-d8	APP 9 VOA-8260B	116.	(73.0 - 122.)

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8745
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 04, 1999

Sample ID : TRIP BLANK 99SPORT0160-4

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8260B

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

NPWC00197

CHAIN OF CUSTODY RECORD

9904806 8

General Engineering Laboratories, Inc.
2040 Savage Road
Charleston, South Carolina 29407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

39869

Page 1 of 1

Client Name/Facility Name: NITC Orlando

Collected by/Company: Env. Det Chasn

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

FEX 7170812
457 Pickup #

	SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	~~TOX~~	Chloride, Fluoride, ~~Sulfide~~ 6010A METALS	Nitrite/Nitrate	VOC: Specify Method required 8260A	METALS - specify	Pesticide 8081 +PCB	Herbicide 8151	Total Phenol	Acid Extractables 8270B	B/N Extractables	PCB's 8082	Cyanide 6010A	Coliform - specify type	Hispanic	PAH	Remarks	
01	99SPORT0160-1	4/24/99	1310		X	X		2																X	X	SPLIT 40I022	.1
02	99SPORT0160-2	4/24/99	1330	X				1																	X	Field Blank 40F025	.2
03/04	99Sport0160-3	4/26/99	1655		X	X		9				+		X		X	X		X		~~+~~	+				Clean Back Fill "APP 9"	.3 .4
05	TRIP BLANK 99SPORT0160-4	4/26/99	1600				X	3						X												8260 A VOC, 8260 B Acids, 8270 B Base Neutrals, 8280 Dioxins, 8081 Pesticides and PCBs, 8151 Herbicides 6010A Metals, Cyanide, ~~Sulfide~~	.5

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
~~K~~ Cole	4/26/99	1850	Michael P. Rule	Michael P. Rule	4/27/99	1115	
Relinquished by:	Date:	Time:	Received by lab by:	Date:	Time:	Remarks:	
			[illegible]	4/27/99	1115		

White = sample collector Yellow = file Pink = with report

CONFIRMATION SAMPLES

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID	: 99SPORT0171-1
Lab ID	: 9905155-01
Matrix	: Soil
Date Collected	: 05/05/99
Date Received	: 05/06/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	160	333	ug/kg	1.0	MKP	05/07/99	0042	148519	
Acenaphthylene	U	ND	147	333	ug/kg	1.0					
Anthracene	U	ND	86.6	333	ug/kg	1.0					
Benzo(a)anthracene	U	ND	66.6	333	ug/kg	1.0					
Benzo(a)pyrene	U	ND	73.3	333	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	143	333	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	79.9	333	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	133	333	ug/kg	1.0					
Chrysene	U	ND	53.3	333	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	83.3	333	ug/kg	1.0					
Fluoranthene	U	ND	66.6	333	ug/kg	1.0					
Fluorene	U	ND	113	333	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	79.9	333	ug/kg	1.0					
Naphthalene	U	ND	157	333	ug/kg	1.0					
Phenanthrene	U	ND	59.9	333	ug/kg	1.0					
Pyrene	U	ND	73.3	333	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds CPU 05/06/99 1700 148519 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	55.3	(44.7 - 110.)
Nitrobenzene-d5	M610	51.1	(42.4 - 107.)
p-Terphenyl-d14	M610	79.9	(45.5 - 104.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905155-01

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID : 99SPORT0171-1

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID	: 99SPORT0171-2
Lab ID	: 9905155-02
Matrix	: Soil
Date Collected	: 05/05/99
Date Received	: 05/06/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	1600	3330	ug/kg	10.	MKP	05/07/99	0110	148519	1
Acenaphthylene	U	ND	1470	3330	ug/kg	10.					
Anthracene	U	ND	866	3330	ug/kg	10.					
Benzo(a)anthracene	J	1040	666	3330	ug/kg	10.					
Benzo(a)pyrene	J	1010	733	3330	ug/kg	10.					
Benzo(b)fluoranthene	U	ND	1430	3330	ug/kg	10.					
Benzo(ghi)perylene	U	ND	799	3330	ug/kg	10.					
Benzo(k)fluoranthene	U	ND	1330	3330	ug/kg	10.					
Chrysene	J	1180	533	3330	ug/kg	10.					
Dibenzo(a,h)anthracene	U	ND	833	3330	ug/kg	10.					
Fluoranthene	J	2370	666	3330	ug/kg	10.					
Fluorene	U	ND	1130	3330	ug/kg	10.					
Indeno(1,2,3-c,d)pyrene	U	ND	799	3330	ug/kg	10.					
Naphthalene	U	ND	1570	3330	ug/kg	10.					
Phenanthrene	U	ND	599	3330	ug/kg	10.					
Pyrene	J	1810	733	3330	ug/kg	10.					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds CPU 05/06/99 1700 148519 2

Comments:
Surrogate recovery fails due to sample dilution.

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905155-02

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID : 99SPORT0171-2

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	0.00*	(44.7 - 110.)
Nitrobenzene-d5	M610	0.00*	(42.4 - 107.)
p-Terphenyl-d14	M610	0.00*	(45.5 - 104.)

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID	: 99SPORT0171-3
Lab ID	: 9905155-03
Matrix	: Soil
Date Collected	: 05/05/99
Date Received	: 05/06/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	160	333	ug/kg	1.0	MKP	05/07/99	0138	148519	
Acenaphthylene	U	ND	147	333	ug/kg	1.0					
Anthracene	U	ND	86.6	333	ug/kg	1.0					
Benzo(a)anthracene	U	ND	66.6	333	ug/kg	1.0					
Benzo(a)pyrene	U	ND	73.3	333	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	143	333	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	79.9	333	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	133	333	ug/kg	1.0					
Chrysene	U	ND	53.3	333	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	83.3	333	ug/kg	1.0					
Fluoranthene	U	ND	66.6	333	ug/kg	1.0					
Fluorene	U	ND	113	333	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	79.9	333	ug/kg	1.0					
Naphthalene	U	ND	157	333	ug/kg	1.0					
Phenanthrene	U	ND	59.9	333	ug/kg	1.0					
Pyrene	U	ND	73.3	333	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds CPU 05/06/99 1700 148519 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	46.6	(44.7 - 110.)
Nitrobenzene-d5	M610	43.7	(42.4 - 107.)
p-Terphenyl-d14	M610	74.9	(45.5 - 104.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905155-03

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID : 99SPORT0171-3

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID	: 99SPORT0171-4
Lab ID	: 9905155-04
Matrix	: Soil
Date Collected	: 05/05/99
Date Received	: 05/06/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	160	333	ug/kg	1.0	MKP	05/07/99	0205	148519	1
Acenaphthylene	U	ND	147	333	ug/kg	1.0					
Anthracene	U	ND	86.6	333	ug/kg	1.0					
Benzo(a)anthracene	U	ND	66.6	333	ug/kg	1.0					
Benzo(a)pyrene	U	ND	73.3	333	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	143	333	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	79.9	333	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	133	333	ug/kg	1.0					
Chrysene	U	ND	53.3	333	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	83.3	333	ug/kg	1.0					
Fluoranthene	U	ND	66.6	333	ug/kg	1.0					
Fluorene	U	ND	113	333	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	79.9	333	ug/kg	1.0					
Naphthalene	U	ND	157	333	ug/kg	1.0					
Phenanthrene	U	ND	59.9	333	ug/kg	1.0					
Pyrene	U	ND	73.3	333	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds CPU 05/06/99 1700 148519 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	59.6	(44.7 - 110.)
Nitrobenzene-d5	M610	54.7	(42.4 - 107.)
p-Terphenyl-d14	M610	83.3	(45.5 - 104.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905155-04

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID : 99SPORT0171-4

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

otes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID	: 99SPORT0171-5
Lab ID	: 9905155-05
Matrix	: Soil
Date Collected	: 05/05/99
Date Received	: 05/06/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	160	333	ug/kg	1.0	MKP	05/07/99	0233	148519	1
Acenaphthylene	U	ND	147	333	ug/kg	1.0					
Anthracene	U	ND	86.6	333	ug/kg	1.0					
Benzo(a)anthracene	U	ND	66.6	333	ug/kg	1.0					
Benzo(a)pyrene	U	ND	73.3	333	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	143	333	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	79.9	333	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	133	333	ug/kg	1.0					
Chrysene	U	ND	53.3	333	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	83.3	333	ug/kg	1.0					
Fluoranthene	U	ND	66.6	333	ug/kg	1.0					
Fluorene	U	ND	113	333	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	79.9	333	ug/kg	1.0					
Naphthalene	U	ND	157	333	ug/kg	1.0					
Phenanthrene	U	ND	59.9	333	ug/kg	1.0					
Pyrene	U	ND	73.3	333	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds CPU 05/06/99 1700 148519 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	55.0	(44.7 - 110.)
Nitrobenzene-d5	M610	52.1	(42.4 - 107.)
p-Terphenyl-d14	M610	75.8	(45.5 - 104.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905155-05

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID : 99SPORT0171-5

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905155-05

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID	: 99SPORT0171-6
Lab ID	: 9905155-06
Matrix	: Soil
Date Collected	: 05/05/99
Date Received	: 05/06/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	160	333	ug/kg	1.0	MKP	05/07/99	0300	148519	
Acenaphthylene	U	ND	147	333	ug/kg	1.0					
Anthracene	U	ND	86.6	333	ug/kg	1.0					
Benzo(a)anthracene	U	ND	66.6	333	ug/kg	1.0					
Benzo(a)pyrene	U	ND	73.3	333	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	143	333	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	79.9	333	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	133	333	ug/kg	1.0					
Chrysene	U	ND	53.3	333	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	83.3	333	ug/kg	1.0					
Fluoranthene	U	ND	66.6	333	ug/kg	1.0					
Fluorene	U	ND	113	333	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	79.9	333	ug/kg	1.0					
Naphthalene	U	ND	157	333	ug/kg	1.0					
Phenanthrene	U	ND	59.9	333	ug/kg	1.0					
Pyrene	U	ND	73.3	333	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds CPU 05/06/99 1700 148519 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	57.7	(44.7 - 110.)
Nitrobenzene-d5	M610	56.5	(42.4 - 107.)
p-Terphenyl-d14	M610	72.2	(45.5 - 104.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905155-06

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID : 99SPORT0171-6

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID	: 99SPORT0171-7
Lab ID	: 9905155-07
Matrix	: Soil
Date Collected	: 05/05/99
Date Received	: 05/06/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	160	333	ug/kg	1.0	MKP	05/07/99	0328	148519	1
Acenaphthylene	U	ND	147	333	ug/kg	1.0					
Anthracene	U	ND	86.6	333	ug/kg	1.0					
Benzo(a)anthracene	U	ND	66.6	333	ug/kg	1.0					
Benzo(a)pyrene	U	ND	73.3	333	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	143	333	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	79.9	333	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	133	333	ug/kg	1.0					
Chrysene	U	ND	53.3	333	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	83.3	333	ug/kg	1.0					
Fluoranthene	U	ND	66.6	333	ug/kg	1.0					
Fluorene	U	ND	113	333	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	79.9	333	ug/kg	1.0					
Naphthalene	U	ND	157	333	ug/kg	1.0					
Phenanthrene	U	ND	59.9	333	ug/kg	1.0					
Pyrene	U	ND	73.3	333	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds CPU 05/06/99 1700 148519 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	62.8	(44.7 - 110.)
Nitrobenzene-d5	M610	59.8	(42.4 - 107.)
p-Terphenyl-d14	M610	77.1	(45.5 - 104.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905155-07

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID : 99SPORT0171-7

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID	: 99SPORT0171-8
Lab ID	: 9905155-08
Matrix	: Soil
Date Collected	: 05/05/99
Date Received	: 05/06/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	160	333	ug/kg	1.0	MKP	05/07/99	0356	148519	
Acenaphthylene	U	ND	147	333	ug/kg	1.0					
Anthracene	U	ND	86.6	333	ug/kg	1.0					
Benzo(a)anthracene	U	ND	66.6	333	ug/kg	1.0					
Benzo(a)pyrene	U	ND	73.3	333	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	143	333	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	79.9	333	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	133	333	ug/kg	1.0					
Chrysene	U	ND	53.3	333	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	83.3	333	ug/kg	1.0					
Fluoranthene	U	ND	66.6	333	ug/kg	1.0					
Fluorene	U	ND	113	333	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	79.9	333	ug/kg	1.0					
Naphthalene	U	ND	157	333	ug/kg	1.0					
Phenanthrene	U	ND	59.9	333	ug/kg	1.0					
Pyrene	U	ND	73.3	333	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds CPU 05/06/99 1700 148519 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	62.4	(44.7 - 110.)
Nitrobenzene-d5	M610	57.1	(42.4 - 107.)
p-Terphenyl-d14	M610	90.2	(45.5 - 104.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905155-08

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID : 99SPORT0171-8

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

otes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID	: 99SPORT0171-10
Lab ID	: 9905155-10
Matrix	: Soil
Date Collected	: 05/05/99
Date Received	: 05/06/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
olynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	1600	3330	ug/kg	10.	MKP	05/07/99	0451	148519	1
Acenaphthylene	U	ND	1470	3330	ug/kg	10.					
Anthracene	U	ND	866	3330	ug/kg	10.					
Benzo(a)anthracene	U	ND	666	3330	ug/kg	10.					
Benzo(a)pyrene	U	ND	733	3330	ug/kg	10.					
Benzo(b)fluoranthene	U	ND	1430	3330	ug/kg	10.					
Benzo(ghi)perylene	U	ND	799	3330	ug/kg	10.					
Benzo(k)fluoranthene	U	ND	1330	3330	ug/kg	10.					
Chrysene	U	ND	533	3330	ug/kg	10.					
Dibenzo(a,h)anthracene	U	ND	833	3330	ug/kg	10.					
Fluoranthene	U	ND	666	3330	ug/kg	10.					
Fluorene	U	ND	1130	3330	ug/kg	10.					
Indeno(1,2,3-c,d)pyrene	U	ND	799	3330	ug/kg	10.					
Naphthalene	U	ND	1570	3330	ug/kg	10.					
Phenanthrene	U	ND	599	3330	ug/kg	10.					
Pyrene	U	ND	733	3330	ug/kg	10.					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds CPU 05/06/99 1700 148519 2

Comments:

Surrogate recovery fails due to sample dilution.

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID : 99SPORT0171-10

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	0.00*	(44.7 - 110.)
Nitrobenzene-d5	M610	0.00*	(42.4 - 107.)
p-Terphenyl-d14	M610	102.	(45.5 - 104.)

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID	: 99SPORT0171-11
Lab ID	: 9905155-11
Matrix	: Soil
Date Collected	: 05/05/99
Date Received	: 05/06/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	160	333	ug/kg	1.0	MKP	05/07/99	0519	148519	
Acenaphthylene	U	ND	147	333	ug/kg	1.0					
Anthracene	U	ND	86.6	333	ug/kg	1.0					
Benzo(a)anthracene	U	ND	66.6	333	ug/kg	1.0					
Benzo(a)pyrene	U	ND	73.3	333	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	143	333	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	79.9	333	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	133	333	ug/kg	1.0					
Chrysene	U	ND	53.3	333	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	83.3	333	ug/kg	1.0					
Fluoranthene	U	ND	66.6	333	ug/kg	1.0					
Fluorene	U	ND	113	333	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	79.9	333	ug/kg	1.0					
Naphthalene	U	ND	157	333	ug/kg	1.0					
Phenanthrene	U	ND	59.9	333	ug/kg	1.0					
Pyrene	U	ND	73.3	333	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds CPU 05/06/99 1700 148519 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	66.4	(44.7 - 110.)
Nitrobenzene-d5	M610	63.5	(42.4 - 107.)
p-Terphenyl-d14	M610	78.9	(45.5 - 104.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905155-11

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID : 99SPORT0171-11

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

otes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID	: 99SPORT0171-12
Lab ID	: 9905155-12
Matrix	: Soil
Date Collected	: 05/05/99
Date Received	: 05/06/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	160	333	ug/kg	1.0	MKP	05/07/99	0547	148519	
Acenaphthylene	U	ND	147	333	ug/kg	1.0					
Anthracene	U	ND	86.6	333	ug/kg	1.0					
Benzo(a)anthracene	J	81.5	66.6	333	ug/kg	1.0					
Benzo(a)pyrene	J	76.2	73.3	333	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	143	333	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	79.9	333	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	133	333	ug/kg	1.0					
Chrysene	J	90.2	53.3	333	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	83.3	333	ug/kg	1.0					
Fluoranthene	J	168	66.6	333	ug/kg	1.0					
Fluorene	U	ND	113	333	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	79.9	333	ug/kg	1.0					
Naphthalene	U	ND	157	333	ug/kg	1.0					
Phenanthrene	U	ND	59.9	333	ug/kg	1.0					
Pyrene	J	134	73.3	333	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds CPU 05/06/99 1700 148519 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	65.3	(44.7 - 110.)
Nitrobenzene-d5	M610	59.6	(42.4 - 107.)
p-Terphenyl-d14	M610	80.4	(45.5 - 104.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905155-12

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID : 99SPORT0171-12

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

otes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905155-12

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID	: 99SPORT0171-13
Lab ID	: 9905155-13
Matrix	: Soil
Date Collected	: 05/05/99
Date Received	: 05/06/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
olynuclear Aromatic Hydrocarbons - 16 items											
cenaphthene	U	ND	160	333	ug/kg	1.0	MKP	05/07/99	0615	148519	1
Acenaphthylene	U	ND	147	333	ug/kg	1.0					
Anthracene	U	ND	86.6	333	ug/kg	1.0					
Benzo(a)anthracene	U	ND	66.6	333	ug/kg	1.0					
Benzo(a)pyrene	U	ND	73.3	333	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	143	333	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	79.9	333	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	133	333	ug/kg	1.0					
Chrysene	U	ND	53.3	333	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	83.3	333	ug/kg	1.0					
Fluoranthene	U	ND	66.6	333	ug/kg	1.0					
Fluorene	U	ND	113	333	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	79.9	333	ug/kg	1.0					
Naphthalene	U	ND	157	333	ug/kg	1.0					
Phenanthrene	U	ND	59.9	333	ug/kg	1.0					
Pyrene	U	ND	73.3	333	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds CPU 05/06/99 1700 148519 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	55.2	(44.7 - 110.)
itrobenzene-d5	M610	51.1	(42.4 - 107.)
-Terphenyl-d14	M610	75.8	(45.5 - 104.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905155-13

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID : 99SPORT0171-13

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

otes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905155-13

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID	: 99SPORT0171-14
Lab ID	: 9905155-14
Matrix	: Soil
Date Collected	: 05/05/99
Date Received	: 05/06/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	160	333	ug/kg	1.0	MKP	05/07/99	0643	148519	
Acenaphthylene	U	ND	147	333	ug/kg	1.0					
Anthracene	U	ND	86.6	333	ug/kg	1.0					
Benzo(a)anthracene	U	ND	66.6	333	ug/kg	1.0					
Benzo(a)pyrene	U	ND	73.3	333	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	143	333	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	79.9	333	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	133	333	ug/kg	1.0					
Chrysene	U	ND	53.3	333	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	83.3	333	ug/kg	1.0					
Fluoranthene	U	ND	66.6	333	ug/kg	1.0					
Fluorene	U	ND	113	333	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	79.9	333	ug/kg	1.0					
Naphthalene	U	ND	157	333	ug/kg	1.0					
Phenanthrene	U	ND	59.9	333	ug/kg	1.0					
Pyrene	U	ND	73.3	333	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds CPU 05/06/99 1700 148519 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	54.9	(44.7 - 110.)
Nitrobenzene-d5	M610	50.6	(42.4 - 107.)
p-Terphenyl-d14	M610	85.0	(45.5 - 104.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905155-14

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID : 99SPORT0171-14

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

otes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905155-14

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID	: 99SPORT0171-15
Lab ID	: 9905155-15
Matrix	: Soil
Date Collected	: 05/05/99
Date Received	: 05/06/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	160	333	ug/kg	1.0	MKP	05/07/99	0711	148519	
Acenaphthylene	U	ND	147	333	ug/kg	1.0					
Anthracene	U	ND	86.6	333	ug/kg	1.0					
Benzo(a)anthracene	U	ND	66.6	333	ug/kg	1.0					
Benzo(a)pyrene	U	ND	73.3	333	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	143	333	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	79.9	333	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	133	333	ug/kg	1.0					
Chrysene	J	60.8	53.3	333	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	83.3	333	ug/kg	1.0					
Fluoranthene	J	94.7	66.6	333	ug/kg	1.0					
Fluorene	U	ND	113	333	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	79.9	333	ug/kg	1.0					
Naphthalene	U	ND	157	333	ug/kg	1.0					
Phenanthrene	U	ND	59.9	333	ug/kg	1.0					
Pyrene	J	85.8	73.3	333	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds CPU 05/06/99 1700 148519 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	55.6	(44.7 - 110.)
Nitrobenzene-d5	M610	50.9	(42.4 - 107.)
p-Terphenyl-d14	M610	71.6	(45.5 - 104.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905155-15

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID : 99SPORT0171-15

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID : 99SPORT0171-16
Lab ID : 9905155-16
Matrix : Soil
Date Collected : 05/05/99
Date Received : 05/06/99
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	639	1330	ug/kg	4.0	MKP	05/07/99	0739	148519	
Acenaphthylene	U	ND	586	1330	ug/kg	4.0					
Anthracene	U	ND	346	1330	ug/kg	4.0					
Benzo(a)anthracene	J	337	266	1330	ug/kg	4.0					
Benzo(a)pyrene	J	336	293	1330	ug/kg	4.0					
Benzo(b)fluoranthene	U	ND	573	1330	ug/kg	4.0					
Benzo(ghi)perylene	U	ND	320	1330	ug/kg	4.0					
Benzo(k)fluoranthene	U	ND	533	1330	ug/kg	4.0					
Chrysene	J	366	213	1330	ug/kg	4.0					
Dibenzo(a,h)anthracene	U	ND	333	1330	ug/kg	4.0					
Fluoranthene	J	713	266	1330	ug/kg	4.0					
Fluorene	U	ND	453	1330	ug/kg	4.0					
Indeno(1,2,3-c,d)pyrene	U	ND	320	1330	ug/kg	4.0					
Naphthalene	U	ND	626	1330	ug/kg	4.0					
Phenanthrene	U	ND	240	1330	ug/kg	4.0					
Pyrene	J	580	293	1330	ug/kg	4.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds CPU 05/06/99 1700 148519 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	53.3	(44.7 - 110.)
Nitrobenzene-d5	M610	40.0*	(42.4 - 107.)
p-Terphenyl-d14	M610	71.7	(45.5 - 104.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905155-16

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID : 99SPORT0171-16

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905155-16

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID	: 99SPORT0171-17
Lab ID	: 9905155-17
Matrix	: Soil
Date Collected	: 05/05/99
Date Received	: 05/06/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	160	333	ug/kg	1.0	MKP	05/07/99	0807	148519	1
Acenaphthylene	U	ND	147	333	ug/kg	1.0					
Anthracene	U	ND	86.6	333	ug/kg	1.0					
Benzo(a)anthracene	U	ND	66.6	333	ug/kg	1.0					
Benzo(a)pyrene	U	ND	73.3	333	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	143	333	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	79.9	333	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	133	333	ug/kg	1.0					
Chrysene	U	ND	53.3	333	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	83.3	333	ug/kg	1.0					
Fluoranthene	U	ND	66.6	333	ug/kg	1.0					
Fluorene	U	ND	113	333	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	79.9	333	ug/kg	1.0					
Naphthalene	U	ND	157	333	ug/kg	1.0					
Phenanthrene	U	ND	59.9	333	ug/kg	1.0					
Pyrene	U	ND	73.3	333	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds CPU 05/06/99 1700 148519 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	46.6	(44.7 - 110.)
Nitrobenzene-d5	M610	43.6	(42.4 - 107.)
p-Terphenyl-d14	M610	67.6	(45.5 - 104.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905155-17

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston. South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID : 99SPORT0171-17

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston. SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID	: 99SPORT0171-18
Lab ID	: 9905155-18
Matrix	: Soil
Date Collected	: 05/05/99
Date Received	: 05/06/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	160	333	ug/kg	1.0	MKP	05/07/99	0834	148519	
Acenaphthylene	U	ND	147	333	ug/kg	1.0					
Anthracene	U	ND	86.6	333	ug/kg	1.0					
Benzo(a)anthracene	U	ND	66.6	333	ug/kg	1.0					
Benzo(a)pyrene	U	ND	73.3	333	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	143	333	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	79.9	333	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	133	333	ug/kg	1.0					
Chrysene	U	ND	53.3	333	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	83.3	333	ug/kg	1.0					
Fluoranthene	U	ND	66.6	333	ug/kg	1.0					
Fluorene	U	ND	113	333	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	79.9	333	ug/kg	1.0					
Naphthalene	U	ND	157	333	ug/kg	1.0					
Phenanthrene	U	ND	59.9	333	ug/kg	1.0					
Pyrene	U	ND	73.3	333	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds CPU 05/06/99 1700 148519 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	56.2	(44.7 - 110.)
Nitrobenzene-d5	M610	52.6	(42.4 - 107.)
p-Terphenyl-d14	M610	74.4	(45.5 - 104.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905155-18

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID : 99SPORT0171-18

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905155-18

URGENT

CHAIN OF CUSTODY RECORD

— 23 DAY TURNAROUND —

General Engineering Laboratories, Inc.
2040 Savage Road
Charleston, South Carolina 29407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Page 1 of 2

Client Name/Facility Name: NTC Orlando

Collected by/Company: Env Det Chas

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	PAH 8310	Remarks
99Sport0171-1	5/5/99	1110		X		X	1																X	SA175011
99Sport0171-2	5/5/99	1114		X		X	1																X	SA175012
99Sport0171-3	5/5/99	1120		X		X	1																X	SA175013
99Sport0171-4	5/5/99	1125		X		X	1																X	SA175014
99Sport0171-5	5/5/99	1130		X		X	1																X	SA175015
99Sport0171-6	5/5/99	1134		X		X	1																X	SA175016
99Sport0171-7	5/5/99	1139		X		X	1																X	SA175017
99Sport0171-8	5/5/99	1145		X		X	1																X	SA175018
99Sport0171-9	5/5/99	1150		X		X	1																X	SA175019
99Sport0171-10	5/5/99	1156		X		X	1																X	SA175020
99Sport0171-11	5/5/99	1202		X		X	1																X	SA175021
99Sport0171-12	5/5/99	1207		X		X	1																X	SA175022
99Sport0171-13	5/5/99	1213		X		X	1																X	SA175023

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
K W Cope	5/5/99	1910	W.R. Hues, Jr.	W.R. Hues, Jr.	5/6/99	1432	Orion Washington
Orion Washington	5/6/99	1505	P. Moore	Date: 5/6/99	Time: 15:05	Remarks:	

White = sample collector Yellow = file Pink = with report

URGENT

CHAIN OF CUSTODY RECORD

— 2 Day TURNAROUND —

General Engineering Lab[illegible]ries, Inc.
2040 Savage Road
Charleston, South Caroli[illegible]07
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Page 2 of 2

Client Name/Facility Name: NTC Orlando

Collected by/Company: Env Def CHAS

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	PAH 8310	Remarks
99Sport0171-14	5/5/99	1220		X	X		1																X	SA17S024
99Sport0171-15	5/5/99	1226		X	X		1																X	SA17S025
99Sport0171-16	5/5/99	1234		X	X		1																X	SA17S026
99Sport0171-17	5/5/99	1240		X	X		1																X	SA17S027
99Sport0171-18	5/5/99	1247		X	X		1																X	SA17S028
99Sport0171-19	5/5/99	1255		X	X		1																X	SA17S029
99Sport0171-20	5/5/99	1300		X	X		1																X	SA18S009
99Sport0171-21	5/5/99	1315		X	X		1																X	SA18S010
99Sport0171-22	5/5/99	1330		X	X		1																X	SA18S011
99Sport0171-23	5/5/99	1345		X	X		1																X	SA18S012
99Sport0171-24	5/5/99	1400		X	X		1																X	Duplicate of SA18S011 SA18C013
99Sport0171-25	5/5/99	1315	X				1																X	FIELD Blank SA18S012 SA18F014

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Relinquished by:	Date:	Time:	Received by:
K W Cope	5/5/99	1910	W.R. Huey, Jr.
Relinquished by:	Date:	Time:	Received by lab by:
Officer (Washington)	5/6/99	1100	P. Mauck

Relinquished by:	Date:	Time:	Received by:
W.R. Huey, Jr.	5/6/99	1432	[illegible] Washington
Date:	Time:	Remarks:	
5/6/99	15.05		

White — sample collector — Yellow = file — Pink = with report

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 19, 1999

Sample ID	: 99SPORT0183-1
Lab ID	: 9905532-01
Matrix	: Soil
Date Collected	: 05/14/99
Date Received	: 05/17/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	157	330	ug/kg	1.0	JPA	05/19/99	0034	149386	1
Acenaphthylene	U	ND	144	330	ug/kg	1.0					
Anthracene	U	ND	85.3	330	ug/kg	1.0					
Benzo(a)anthracene	J	303	65.6	330	ug/kg	1.0					
Benzo(a)pyrene		353	72.2	330	ug/kg	1.0					
Benzo(b)fluoranthene		445	141	330	ug/kg	1.0					
Benzo(ghi)perylene	J	213	78.7	330	ug/kg	1.0					
Benzo(k)fluoranthene	J	307	131	330	ug/kg	1.0					
Chrysene		338	52.5	330	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	82.0	330	ug/kg	1.0					
Fluoranthene		618	65.6	330	ug/kg	1.0					
Fluorene	U	ND	112	330	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	J	194	78.7	330	ug/kg	1.0					
Naphthalene	U	ND	154	330	ug/kg	1.0					
Phenanthrene	J	279	59.0	330	ug/kg	1.0					
Pyrene		475	72.2	330	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds RDH 05/18/99 0800 149386 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	61.8	(44.7 - 110.)
Nitrobenzene-d5	M610	57.0	(42.4 - 107.)
Terphenyl-d14	M610	69.2	(45.5 - 104.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905532-01

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 19, 1999

Sample ID : 99SPORT0183-1

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

NMUC00197

CHAIN OF CUSTODY RECORD

9905532

General Engineering L ories, Inc.
2040 Savage Road
Charleston, South Carolina 29407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Page 1 of 1

Client Name/Facility Name: McCoy Orlando

Collected by/Company: Env Det Chas

	SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	PAH 8270	Arsenic TCLP	Remarks
01	99Sport0183-1	5/14/99	1115		X		X	1																X		SA17S031 & 32 SA17S033 @ 40'
02	99Sport0183-2	5/14/99	1515		X		X	1																	X	99Sport0175-1 & 2 SA35 SA64 @ 15'
03	99Sport0183-3	5/14/99	1610		X		X	1																	X	99Sport0173-16 SA8S0546 @ 5'

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

40300

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
K W Pope	5/14/99	1745					
Relinquished by:	Date:	Time:	Received by lab by:	Date:	Time:	Remarks:	
			P. N Power	5/19	08:30		

White = s collector Yellow = file Pink = with report

WASTE CHARACTERIZATION

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE HALOGENS	17S001	17S002	Units
Dichlorodifluoromethane	1.0 U	1.0 U	µg/Kg
Chloromethane	1.0 U	1.0 U	µg/Kg
Vinyl Chloride	1.0 U	1.0 U	µg/Kg
Bromomethane	1.0 U	1.0 U	µg/Kg
Chloroethane	1.0 U	1.0 U	µg/Kg
Trichlorofluoromethane	1.0 U	1.0 U	µg/Kg
1,1-Dichloroethene	1.0 U	1.0 U	µg/Kg
Methylene Chloride	3.0 U	3.0 U	µg/Kg
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/Kg
1,1-Dichloroethane	1.0 U	1.0 U	µg/Kg
Chloroform	1.0 U	1.0 U	µg/Kg
2-Dichloroethene	1.0 U	1.0 U	µg/Kg
,1-Trichloroethane	1.0 U	1.0 U	µg/Kg
Carbon Tetrachloride	1.0 U	1.0 U	µg/Kg
1,2-Dichloroethane	1.0 U	1.0 U	µg/Kg
Trichloroethene	1.0 U	1.0 U	µg/Kg
1,2-Dichloropropane	1.0 U	1.0 U	µg/Kg
Bromodichloromethane	1.0 U	1.0 U	µg/Kg
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/Kg
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/Kg
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/Kg
Tetrachloroethene	1.0 U	1.0 U	µg/Kg
Dibromochloromethane	1.0 U	1.0 U	µg/Kg
Chlorobenzene	1.0 U	1.0 U	µg/Kg
Bromoform	1.0 U	1.0 U	µg/Kg
1,1,2,2-Tetrachloroethane	2.0 U	2.0 U	µg/Kg
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	92	97	31-153
Date Analyzed	04/27/99	04/28/99	

NOTE: Analyte values are reported on a dry weight basis.

Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE AROMATICS	17S001	17S002	Units
Methyl tert-butyl ether	2.0 U	2.0 U	µg/Kg
Benzene	1.0 U	1.0 U	µg/Kg
Toluene	1.0 U	**2.0** IV	µg/Kg
Chlorobenzene	1.0 U	1.0 U	µg/Kg
Ethylbenzene	1.0 U	1.0 U	µg/Kg
m-Xylene & p-Xylene	2.0 U	2.0 U	µg/Kg
o-Xylene	1.0 U	1.0 U	µg/Kg
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
Surrogate:	% RECOV	% RECOV	LIMITS
Trifluorobenzene	114	124	28-165
Date Analyzed	04/27/99	04/28/99	

EPA METHOD FLPRO - Petrol Residual Org.	17S001	17S002	Units
Hydrocarbons (C8-C40)	**730**	**82**	mg/Kg
Surrogate:	% RECOV	% RECOV	LIMITS
o-Terphenyl	*	86	51-148
Date Extracted	04/28/99	04/28/99	
Date Analyzed	04/29/99	04/29/99	

NOTE: Analyte values are reported on a dry weight basis.

* = Matrix interference; unable to obtain surrogate recovery.
V = Analyte detected in laboratory method blank.
U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

ENCO LABORATORIES
REPORT # : OR6371
DATE REPORTED: April 30, 1999
REFERENCE : SA-17
PROJECT NAME : McCoy Annex

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	17S001	17S002	Units
Arsenic	7060	0.80 U	**0.80**	mg/Kg
Date Analyzed		04/26/99	04/26/99	
Barium	7080	26 U	26 U	mg/Kg
Date Analyzed		04/27/99	04/27/99	
Cadmium	7130	1.0 U	1.0 U	mg/Kg
Date Analyzed		04/27/99	04/27/99	
Chromium	7190	5.0 U	5.0 U	mg/Kg
Date Analyzed		04/27/99	04/27/99	
[illegible]	7420	5.0 U	**5.0**	mg/Kg
[illegible] Analyzed		04/27/99	04/27/99	
Mercury	7471	0.026 U	0.026 U	mg/Kg
Date Analyzed		04/27/99	04/27/99	
Selenium	7740	0.80 U	0.80 U	mg/Kg
Date Analyzed		04/27/99	04/27/99	
Silver	7760	2.0 U	2.0 U	mg/Kg
Date Analyzed		04/27/99	04/27/99	

MISCELLANEOUS	METHOD	17S001	17S002	Units
Percent Solids	SM2540G	**97**	**98**	%
Date Analyzed		04/28/99	04/28/99	

NOTE: Analyte values are reported on a dry weight basis.

U Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE HALOGENS	17S003	17S004	Units
Dichlorodifluoromethane	1.0 U	1.0 U	µg/Kg
Chloromethane	1.0 U	1.0 U	µg/Kg
Vinyl Chloride	1.0 U	1.0 U	µg/Kg
Bromomethane	1.0 U	1.0 U	µg/Kg
Chloroethane	1.0 U	1.0 U	µg/Kg
Trichlorofluoromethane	1.0 U	1.0 U	µg/Kg
1,1-Dichloroethene	1.0 U	1.0 U	µg/Kg
Methylene Chloride	3.0 U	3.0 U	µg/Kg
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/Kg
1,1-Dichloroethane	1.0 U	1.0 U	µg/Kg
Chloroform	1.0 U	1.0 U	µg/Kg
,2-Dichloroethene	1.0 U	1.0 U	µg/Kg
.,1-Trichloroethane	1.0 U	1.0 U	µg/Kg
Carbon Tetrachloride	1.0 U	1.0 U	µg/Kg
1,2-Dichloroethane	1.0 U	1.0 U	µg/Kg
Trichloroethene	1.0 U	1.0 U	µg/Kg
1,2-Dichloropropane	1.0 U	1.0 U	µg/Kg
Bromodichloromethane	1.0 U	1.0 U	µg/Kg
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/Kg
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/Kg
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/Kg
Tetrachloroethene	1.0 U	1.0 U	µg/Kg
Dibromochloromethane	1.0 U	1.0 U	µg/Kg
Chlorobenzene	1.0 U	1.0 U	µg/Kg
Bromoform	1.0 U	1.0 U	µg/Kg
1,1,2,2-Tetrachloroethane	2.0 U	2.0 U	µg/Kg
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	92	109	31-153
Date Analyzed	04/29/99	04/28/99	

NOTE: Analyte values are reported on a dry weight basis.

U Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE AROMATICS	17S003	17S004	Units
Methyl tert-butyl ether	2.0 U	2.0 U	µg/Kg
Benzene	1.0 U	1.0 U	µg/Kg
Toluene	1.0 U	1.0 U	µg/Kg
Chlorobenzene	1.0 U	1.0 U	µg/Kg
Ethylbenzene	1.0 U	1.0 U	µg/Kg
m-Xylene & p-Xylene	2.0 U	2.0 U	µg/Kg
o-Xylene	1.0 U	1.0 U	µg/Kg
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
ogate:	**% RECOV**	**% RECOV**	**LIMITS**
b mofluorobenzene	129	113	28-165
Date Analyzed	04/29/99	04/28/99	

EPA METHOD FLPRO - Petrol Residual Org.	17S003	17S004	Units
Hydrocarbons (C8-C40)	6.7 U	6.7 U	mg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	73	68	51-148
Date Extracted	04/28/99	04/28/99	
Date Analyzed	04/29/99	04/29/99	

NOTE: Analyte values are reported on a dry weight basis.

Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	17S003	17S004	Units
Arsenic	7060	0.80 U	0.80 U	mg/Kg
Date Analyzed		04/26/99	04/26/99	
Barium	7080	26 U	26 U	mg/Kg
Date Analyzed		04/27/99	04/27/99	
Cadmium	7130	1.0 U	1.0 U	mg/Kg
Date Analyzed		04/27/99	04/27/99	
Chromium	7190	5.0 U	5.0 U	mg/Kg
Date Analyzed		04/27/99	04/27/99	
l	7420	5.0 U	5.0 U	mg/Kg
e Analyzed		04/27/99	04/27/99	
Mercury	7471	0.026 U	0.026 U	mg/Kg
Date Analyzed		04/27/99	04/27/99	
Selenium	7740	0.80 U	0.80 U	mg/Kg
Date Analyzed		04/27/99	04/27/99	
Silver	7760	2.0 U	2.0 U	mg/Kg
Date Analyzed		04/27/99	04/27/99	

MISCELLANEOUS	METHOD	17S003	17S004	Units
Percent Solids	SM2540G	98	98	%
Date Analyzed		04/28/99	04/28/99	

NOTE: Analyte values are reported on a dry weight basis.

U Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE HALOGENS	17S005	17S006	Units
Dichlorodifluoromethane	1.0 U	1.0 U	µg/Kg
Chloromethane	1.0 U	1.0 U	µg/Kg
Vinyl Chloride	1.0 U	1.0 U	µg/Kg
Bromomethane	1.0 U	1.0 U	µg/Kg
Chloroethane	1.0 U	1.0 U	µg/Kg
Trichlorofluoromethane	1.0 U	1.0 U	µg/Kg
1,1-Dichloroethene	1.0 U	1.0 U	µg/Kg
Methylene Chloride	3.0 U	3.0 U	µg/Kg
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/Kg
1,1-Dichloroethane	1.0 U	1.0 U	µg/Kg
Chloroform	1.0 U	1.0 U	µg/Kg
.2-Dichloroethene	1.0 U	1.0 U	µg/Kg
,1-Trichloroethane	1.0 U	1.0 U	µg/Kg
Carbon Tetrachloride	1.0 U	1.0 U	µg/Kg
1,2-Dichloroethane	1.0 U	1.0 U	µg/Kg
Trichloroethene	1.0 U	1.0 U	µg/Kg
1,2-Dichloropropane	1.0 U	1.0 U	µg/Kg
Bromodichloromethane	1.0 U	1.0 U	µg/Kg
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/Kg
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/Kg
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/Kg
Tetrachloroethene	1.0 U	1.0 U	µg/Kg
Dibromochloromethane	1.0 U	1.0 U	µg/Kg
Chlorobenzene	1.0 U	1.0 U	µg/Kg
Bromoform	1.0 U	1.0 U	µg/Kg
1,1,2,2-Tetrachloroethane	2.0 U	2.0 U	µg/Kg
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	85	108	31-153
Date Analyzed	04/28/99	04/28/99	

NOTE: Analyte values are reported on a dry weight basis.

Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE AROMATICS	17S005	17S006	Units
Methyl tert-butyl ether	2.0 U	2.0 U	µg/Kg
Benzene	1.0 U	1.0 U	µg/Kg
Toluene	**1.0** IV	**1.4** IV	µg/Kg
Chlorobenzene	1.0 U	1.0 U	µg/Kg
Ethylbenzene	1.0 U	1.0 U	µg/Kg
m-Xylene & p-Xylene	2.0 U	2.0 U	µg/Kg
o-Xylene	1.0 U	1.0 U	µg/Kg
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
Surrogate:	% RECOV	% RECOV	LIMITS
Trifluorobenzene	92	102	28-165
Date Analyzed	04/28/99	04/28/99	

EPA METHOD FLPRO - Petrol Residual Org.	17S005	17S006	Units
Hydrocarbons (C8-C40)	6.8 U	7.0 U	mg/Kg
Surrogate:	% RECOV	% RECOV	LIMITS
o-Terphenyl	70	78	51-148
Date Extracted	04/28/99	04/28/99	
Date Analyzed	04/29/99	04/29/99	

NOTE: Analyte values are reported on a dry weight basis.

V = Analyte detected in laboratory method blank.
U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

ENCO LABORATORIES
REPORT # : OR6371
DATE REPORTED: April 30, 1999
REFERENCE : SA-17
PROJECT NAME : McCoy Annex

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	17S005	17S006	Units
Arsenic	7060	0.80 U	0.80 U	mg/Kg
Date Analyzed		04/26/99	04/26/99	
Barium	7080	26 U	26 U	mg/Kg
Date Analyzed		04/27/99	04/27/99	
Cadmium	7130	1.0 U	1.0 U	mg/Kg
Date Analyzed		04/27/99	04/27/99	
Chromium	7190	5.0 U	**5.0**	mg/Kg
Date Analyzed		04/27/99	04/27/99	
[illegible]	7420	5.0 U	**17**	mg/Kg
[illegible] Analyzed		04/27/99	04/27/99	
Mercury	7471	0.026 U	**0.028**	mg/Kg
Date Analyzed		04/27/99	04/27/99	
Selenium	7740	0.80 U	0.80 U	mg/Kg
Date Analyzed		04/27/99	04/27/99	
Silver	7760	2.0 U	2.0 U	mg/Kg
Date Analyzed		04/27/99	04/27/99	

MISCELLANEOUS	METHOD	17S005	17S006	Units
Percent Solids	SM2540G	**97**	**94**	%
Date Analyzed		04/28/99	04/28/99	

NOTE: Analyte values are reported on a dry weight basis.

Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE HALOGENS	17S007	17S008	Units
Dichlorodifluoromethane	1.0 U	1.0 U	µg/Kg
Chloromethane	1.0 U	1.0 U	µg/Kg
Vinyl Chloride	1.0 U	1.0 U	µg/Kg
Bromomethane	1.0 U	1.0 U	µg/Kg
Chloroethane	1.0 U	1.0 U	µg/Kg
Trichlorofluoromethane	1.0 U	1.0 U	µg/Kg
1,1-Dichloroethene	1.0 U	1.0 U	µg/Kg
Methylene Chloride	3.0 U	3.0 U	µg/Kg
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/Kg
1,1-Dichloroethane	1.0 U	1.0 U	µg/Kg
Chloroform	1.0 U	1.0 U	µg/Kg
,2-Dichloroethene	1.0 U	1.0 U	µg/Kg
,1-Trichloroethane	1.0 U	1.0 U	µg/Kg
Carbon Tetrachloride	1.0 U	1.0 U	µg/Kg
1,2-Dichloroethane	1.0 U	1.0 U	µg/Kg
Trichloroethene	1.0 U	1.0 U	µg/Kg
1,2-Dichloropropane	1.0 U	1.0 U	µg/Kg
Bromodichloromethane	1.0 U	1.0 U	µg/Kg
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/Kg
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/Kg
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/Kg
Tetrachloroethene	1.0 U	1.0 U	µg/Kg
Dibromochloromethane	1.0 U	1.0 U	µg/Kg
Chlorobenzene	1.0 U	1.0 U	µg/Kg
Bromoform	1.0 U	1.0 U	µg/Kg
1,1,2,2-Tetrachloroethane	2.0 U	2.0 U	µg/Kg
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	89	78	31-153
Date Analyzed	04/29/99	04/28/99	

NOTE: Analyte values are reported on a dry weight basis.

U Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE AROMATICS	17S007	17S008	Units
Methyl tert-butyl ether	2.0 U	2.0 U	µg/Kg
Benzene	1.0 U	1.0 U	µg/Kg
Toluene	1.0 U	**5.7** V	µg/Kg
Chlorobenzene	1.0 U	1.0 U	µg/Kg
Ethylbenzene	1.0 U	1.0 U	µg/Kg
m-Xylene & p-Xylene	2.0 U	2.0 U	µg/Kg
o-Xylene	1.0 U	1.0 U	µg/Kg
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
Surrogate:	% RECOV	% RECOV	LIMITS
Bromofluorobenzene	80	84	28-165
Date Analyzed	04/29/99	04/28/99	

EPA METHOD FLPRO - Petrol Residual Org.	17S007	17S008	Units
Hydrocarbons (C8-C40)	960	2800	mg/Kg
Surrogate:	% RECOV	% RECOV	LIMITS
o-Terphenyl	138	*	51-148
Date Extracted	04/28/99	04/28/99	
Date Analyzed	04/29/99	04/29/99	

NOTE: Analyte values are reported on a dry weight basis.

* = Matrix interference; unable to obtain surrogate recovery.
' Analyte detected in laboratory method blank.
Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	17S007	17S008	Units
Arsenic	7060	0.90 U	**1.0**	mg/Kg
Date Analyzed		04/26/99	04/26/99	
Barium	7080	**36** I	**280**	mg/Kg
Date Analyzed		04/27/99	04/27/99	
Cadmium	7130	1.0 U	1.0 U	mg/Kg
Date Analyzed		04/27/99	04/27/99	
Chromium	7190	**6.0**	**8.0**	mg/Kg
Date Analyzed		04/27/99	04/27/99	
d	7420	**40**	**46**	mg/Kg
e Analyzed		04/27/99	04/27/99	
Mercury	7471	**0.028**	**0.034**	mg/Kg
Date Analyzed		04/27/99	04/27/99	
Selenium	7740	0.90 U	0.90 U	mg/Kg
Date Analyzed		04/27/99	04/27/99	
Silver	7760	**2.0** I	**2.0** I	mg/Kg
Date Analyzed		04/27/99	04/27/99	

MISCELLANEOUS	METHOD	17S007	17S008	Units
Percent Solids	SM2540G	**93**	**93**	%
Date Analyzed		04/28/99	04/28/99	

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE HALOGENS	17S009	17S010	Units
Dichlorodifluoromethane	1.0 U	1.0 U	µg/Kg
Chloromethane	1.0 U	1.0 U	µg/Kg
Vinyl Chloride	1.0 U	1.0 U	µg/Kg
Bromomethane	1.0 U	1.0 U	µg/Kg
Chloroethane	1.0 U	1.0 U	µg/Kg
Trichlorofluoromethane	1.0 U	1.0 U	µg/Kg
1,1-Dichloroethene	1.0 U	1.0 U	µg/Kg
Methylene Chloride	3.0 U	3.0 U	µg/Kg
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/Kg
1,1-Dichloroethane	1.0 U	1.0 U	µg/Kg
Chloroform	1.0 U	1.0 U	µg/Kg
2-Dichloroethene	1.0 U	1.0 U	µg/Kg
,1-Trichloroethane	1.0 U	1.0 U	µg/Kg
Carbon Tetrachloride	1.0 U	1.0 U	µg/Kg
1,2-Dichloroethane	1.0 U	1.0 U	µg/Kg
Trichloroethene	1.0 U	1.0 U	µg/Kg
1,2-Dichloropropane	1.0 U	1.0 U	µg/Kg
Bromodichloromethane	1.0 U	1.0 U	µg/Kg
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/Kg
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/Kg
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/Kg
Tetrachloroethene	1.0 U	1.0 U	µg/Kg
Dibromochloromethane	1.0 U	1.0 U	µg/Kg
Chlorobenzene	1.0 U	1.0 U	µg/Kg
Bromoform	1.0 U	1.0 U	µg/Kg
1,1,2,2-Tetrachloroethane	2.0 U	2.0 U	µg/Kg
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	80	89	31-153
Date Analyzed	04/28/99	04/28/99	

NOTE: Analyte values are reported on a dry weight basis.

Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE AROMATICS	17S009	17S010	Units
Methyl tert-butyl ether	2.0 U	2.0 U	µg/Kg
Benzene	1.0 U	1.0 U	µg/Kg
Toluene	1.0 IV	1.6 IV	µg/Kg
Chlorobenzene	1.0 U	1.0 U	µg/Kg
Ethylbenzene	1.0 U	1.0 U	µg/Kg
m-Xylene & p-Xylene	2.0 U	2.0 U	µg/Kg
o-Xylene	1.0 U	1.0 U	µg/Kg
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
Surrogate:	% RECOV	% RECOV	LIMITS
Bromofluorobenzene	94	93	28-165
Date Analyzed	04/28/99	04/28/99	

EPA METHOD FLPRO - Petrol Residual Org.	17S009	17S010	Units
Hydrocarbons (C8-C40)	430	29	mg/Kg
Surrogate:	% RECOV	% RECOV	LIMITS
o-Terphenyl	*	82	51-148
Date Extracted	04/28/99	04/28/99	
Date Analyzed	04/29/99	04/29/99	

NOTE: Analyte values are reported on a dry weight basis.

* = Matrix interference; unable to obtain surrogate recovery.
V = Analyte detected in laboratory method blank.
U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	17S009	17S010	Units
Arsenic	7060	**1.2**	0.90 U	mg/Kg
Date Analyzed		04/26/99	04/26/99	
Barium	7080	27 U	27 U	mg/Kg
Date Analyzed		04/27/99	04/27/99	
Cadmium	7130	1.0 U	1.0 U	mg/Kg
Date Analyzed		04/27/99	04/27/99	
Chromium	7190	**10**	5.0 U	mg/Kg
Date Analyzed		04/27/99	04/27/99	
i	7420	**27**	**11**	mg/Kg
e Analyzed		04/27/99	04/27/99	
Mercury	7471	**0.028**	0.027 U	mg/Kg
Date Analyzed		04/27/99	04/27/99	
Selenium	7740	0.90 U	0.90 U	mg/Kg
Date Analyzed		04/27/99	04/27/99	
Silver	7760	2.0 U	2.0 U	mg/Kg
Date Analyzed		04/27/99	04/27/99	

MISCELLANEOUS	METHOD	17S009	17S010	Units
Percent Solids	SM2540G	**93**	**93**	%
Date Analyzed		04/28/99	04/29/99	

NOTE: Analyte values are reported on a dry weight basis.

Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	LAB BLANK	Units
Arsenic	7060	0.40 U	mg/Kg
Date Analyzed		04/26/99	
Barium	7080	25 U	mg/Kg
Date Analyzed		04/26/99	
Cadmium	7130	1.0 U	mg/Kg
Date Analyzed		04/26/99	
Chromium	7190	5.0 U	mg/Kg
Date Analyzed		04/26/99	
[illegible]	7420	5.0 U	mg/Kg
[illegible]ce Analyzed		04/26/99	
Mercury	7471	0.025 U	mg/Kg
Date Analyzed		04/27/99	
Selenium	7740	0.40 U	mg/Kg
Date Analyzed		04/27/99	
Silver	7760	2.0 U	mg/Kg
Date Analyzed		04/26/99	

Compound was analyzed for but not detected to the level shown.

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 8021 (17S001,17S002,17S004,17S005,17S006,17S008,17S009,17S010)				
Methylene Chloride	94/126/ 66	19-173	29	85
Chloroform	79/ 98/ 68	17-173	21	22
Carbon Tetrachloride	117/140/ 74	15-167	18	21
Trichloroethene	99/112/ 89	40-149	12	26
Tetrachloroethene	84/101/ 88	11-165	18	20
Chlorobenzene	82/ 97/ 84	54-134	17	23
EPA Method 8021 (17S003,17S007)				
Methylene Chloride	94/126/ 73	19-173	29	85
Chloroform	79/ 98/ 84	17-173	21	22
Carbon Tetrachloride	117/140/101	15-167	18	21
Trichloroethene	99/112/108	40-149	12	26
Tetrachloroethene	84/101/102	11-165	18	20
Chlorobenzene	82/ 97/ 93	54-134	17	23
EPA Method 8021 (17S001,17S002,17S004,17S005,17S006,17S008,17S009,17S010)				
Benzene	96/102/ 93	59-144	6	25
Toluene	125/114/129	67-132	9	58
Ethylbenzene	118/100/130	60-169	16	28
o-Xylene	109/ 93/119	62-183	16	24
EPA Method 8021 (17S003,17S007)				
Benzene	96/102/108	59-144	6	25
Toluene	125/114/101	67-132	9	58
Ethylbenzene	118/100/119	60-169	16	28
o-Xylene	109/ 93/112	62-183	16	24

Environmental Conservation Laboratories Comprehensive QA Plan #960038

< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference

This report shall not be reproduced except in full, without the written approval of the laboratory. Results for these procedures apply only to samples as submitted.

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE HALOGENS	LAB BLANK	LAB BLANK	Units
Dichlorodifluoromethane	1.0 U	1.0 U	µg/Kg
Chloromethane	1.0 U	1.0 U	µg/Kg
Vinyl Chloride	1.0 U	1.0 U	µg/Kg
Bromomethane	1.0 U	1.0 U	µg/Kg
Chloroethane	1.0 U	1.0 U	µg/Kg
Trichlorofluoromethane	1.0 U	1.0 U	µg/Kg
1,1-Dichloroethene	1.0 U	1.0 U	µg/Kg
Methylene Chloride	3.0 U	3.0 U	µg/Kg
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/Kg
1,1-Dichloroethane	1.0 U	1.0 U	µg/Kg
Chloroform	1.0 U	1.0 U	µg/Kg
c-1,2-Dichloroethene	1.0 U	1.0 U	µg/Kg
1,1,1-Trichloroethane	1.0 U	1.0 U	µg/Kg
Carbon Tetrachloride	1.0 U	1.0 U	µg/Kg
1,2-Dichloroethane	1.0 U	1.0 U	µg/Kg
Trichloroethene	1.0 U	1.0 U	µg/Kg
1,2-Dichloropropane	1.0 U	1.0 U	µg/Kg
Bromodichloromethane	1.0 U	1.0 U	µg/Kg
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/Kg
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/Kg
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/Kg
Tetrachloroethene	1.0 U	1.0 U	µg/Kg
Dibromochloromethane	1.0 U	1.0 U	µg/Kg
Chlorobenzene	1.0 U	1.0 U	µg/Kg
Bromoform	1.0 U	1.0 U	µg/Kg
1,1,2,2-Tetrachloroethane	2.0 U	2.0 U	µg/Kg
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	112	80	31-153
Date Analyzed	04/27/99	04/29/99	

Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE AROMATICS	LAB BLANK	LAB BLANK	Units
Methyl tert-butyl ether	2.0 U	2.0 U	µg/Kg
Benzene	1.0 U	1.0 U	µg/Kg
Toluene	**1.6** I	**1.7** I	µg/Kg
Chlorobenzene	1.0 U	1.0 U	µg/Kg
Ethylbenzene	1.0 U	1.0 U	µg/Kg
m-Xylene & p-Xylene	2.0 U	2.0 U	µg/Kg
o-Xylene	1.0 U	1.0 U	µg/Kg
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
Surrogate:	% RECOV	% RECOV	LIMITS
Bromofluorobenzene	140	91	28-165
Date Analyzed	04/27/99	04/29/99	

EPA METHOD FLPRO - Petrol Residual Org.	LAB BLANK	LAB BLANK	Units
Hydrocarbons (C8-C40)	6.6 U	NR	mg/Kg
Surrogate:	% RECOV		LIMITS
o-Terphenyl	67		51-148
Date Extracted	04/28/99		
Date Analyzed	04/29/99		

NR = Analysis not requested for this sample.
U = Compound was analyzed for but not detected to the level shown.
Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method FLPRO				
Hydrocarbons (C8-C40)	*/ */ 73	62-204	*	25
Total Metals				
Arsenic, 7060	105/106/111	50-135	<1	15
Barium, 7080	93/ 95/ 99	70-112	2	12
Cadmium, 7130	91/ 92/101	80-110	1	10
Chromium, 7190	95/ 95/104	80-115	<1	10
Lead, 7420	89/ 88/ 98	80-110	1	10
Mercury, 7471	105/104/101	75-125	<1	12
Selenium, 7740	112/102/111	50-135	9	15
Silver, 7760	90/ 91/100	80-115	1	10

Environmental Conservation Laboratories Comprehensive QA Plan #960038

* = Matrix interference; unable to obtain accurate recovery
< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference

This report shall not be reproduced except in full, without the written approval of the laboratory. Results for these procedures apply only to samples as submitted.

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
McCoy Annex	SA-17	

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE	FAX
FL.	Rusty Cope	496-2173	

CLIENT NAME	CLIENT PROJECT MANAGER
ENV DET CHAS	A. Moyer

CLIENT ADDRESS (CITY, STATE, ZIP): 1899 N. Hobson Ave, N. Chas., SC 29405

PAGE ___ OF ___

☐ STANDARD REPORT DELIVERY

☐ EXPEDITED REPORT DELIVERY (surcharge)

Date Due: ___

SAMPLE STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	MATRIX TYPE: SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	REQUIRED ANALYSIS: NUMBER OF CONTAINERS SUBMITTED 8021	FL-PRO	RCRA8	REMARKS
1	4/27/99	1002	X		17S001					X					1	1	X	
2		1010			17S002					X					1	1	X	
3		1015			17S003					X					1	1	X	
4		1030			17S004					X					1	1	X	
5		1040			17S005					X					1	1	X	
6		1050			17S006					X					1	1	X	
7		1055			17S007					X					1	1	X	
8		1100			17S008					X					1	1	X	
9		1110			17S009					X					1	1	X	
10		1120			17S010					X					1	1	X	
11																		
12																		
13																		
14																		

SAMPLE KIT PREPARED BY:	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
☐ JACKSONVILLE ☒ ORLANDO			R. Arms (ORL)	4/27/99	3:00			
RELINQUISHED BY: (SIGNATURE) K W Cope	DATE 4/27/99	TIME 1150	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS
K. Arms (ORL) ☐ Jacksonville ☐ Orlando	4-26-99	12:00	☐ YES ☒ NO	ORL63	

Environmental Conservation Laboratories
10207 General Drive
Orlando, Florida 32824-8529
'7 / 826-5314
.x 407 / 850-6945
www.encolabs.com

ENCO Laboratories

DHRS Certification No. E83182

Client:	Environmental Detachment Charleston	Report #:	OR6546
		Date Submitted:	10-May-99
		Date Reported:	14-May-99
Address:	1899 N. Hobson Ave	Project #:	
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6546-1	SA17S030	5/7/99 16:00	FLPRO	Hydrocarbons (C8-C40)	140			mg/Kg	3.6	1.9
OR6546-1	SA17S030	5/7/99 16:00	FLPRO	o-Terphenyl	82			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6546-1	SA17S030	5/7/99 16:00	SM2540G	Percent Solids	95			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

QS# _____

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: NTC Orlando | PROJECT NO. | P.O. NUMBER | PAGE | OF

PROJECT LOC. (State): FL. | SAMPLER(s) NAME: Rusty Cope | PHONE: 496 2173 | FAX

CLIENT NAME: ENV DET CHASN | CLIENT PROJECT MANAGER: AJ Moyer

CLIENT ADDRESS (CITY, STATE, ZIP): 1899 N. Hobson Ave N Chas SC 29405

☐ STANDARD REPORT DELIVERY

☐ EXPEDITED REPORT DELIVERY (surcharge)

Date Due: _____

SAMPLE STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	MATRIX TYPE: SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	REQUIRED ANALYSIS: FLTRPH	Arsenic	PAH	NUMBER OF CONTAINERS SUBMITTED	REMARKS
1	5/7/99	1600	X		SA17S030					X					1				Waste Stream Profile
2	5/9/99	0800	X		SA8I021					X						1			99Sport0173-1
3	5/10/99		X		SA17S031					X							1		Extend SA17
4	5/10/99		X		SA17S032					X							1		99Sport0171-9
5																			out 101 & 201
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			

	DATE	TIME		DATE	TIME		DATE	TIME
SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO			RELINQUISHED BY: (SIGNATURE)			RECEIVED BY: (SIGNATURE)		
RELINQUISHED BY: (SIGNATURE) R W Cope	5/10/99	2:45	RECEIVED BY: (SIGNATURE)			RELINQUISHED BY: (SIGNATURE)		
RECEIVED BY (SIGNATURE)			RELINQUISHED BY: (SIGNATURE)			RECEIVED BY: (SIGNATURE)		

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS
☐ Jacksonville ☐ Orlando	5-10-99	2:45	☐ YES ☒ NO	OR65	

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 13, 1999

Sample ID	: 99SPORT0173-27
Lab ID	: 9905273-23
Matrix	: Soil
Date Collected	: 05/09/99
Date Received	: 05/10/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
Appendix IX Volatiles - 55 items											
1,1,1,2-Tetrachloroethane	U	ND	0.204	1.02	ug/kg	1.0	TCL	05/12/99	1257	148965	1
1,1,1-Trichloroethane	U	ND	0.102	1.02	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.612	1.02	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.306	1.02	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.102	1.02	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.306	1.02	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.408	1.02	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.408	1.02	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.204	1.02	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.510	1.02	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.204	1.02	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.204	1.02	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.102	1.02	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.102	1.02	ug/kg	1.0					
2-Butanone	U	ND	3.26	5.10	ug/kg	1.0					
2-Hexanone	U	ND	2.86	5.10	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.16	5.10	ug/kg	1.0					
Acetone	U	ND	10.5	10.5	ug/kg	1.0					
Acetonitrile	U	ND	1.02	25.5	ug/kg	1.0					
Acrolein	U	ND	4.69	10.2	ug/kg	1.0					
Acrylonitrile	U	ND	3.98	10.2	ug/kg	1.0					
Allyl Chloride	U	ND	0.408	5.10	ug/kg	1.0					
Benzene	U	ND	0.510	1.02	ug/kg	1.0					
Bromoform	U	ND	0.306	1.02	ug/kg	1.0					
Carbon Disulfide	U	ND	0.306	5.10	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.510	1.02	ug/kg	1.0					
Chlorobenzene	U	ND	0.306	1.02	ug/kg	1.0					

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 13, 1999

Sample ID : 99SPORT0173-27

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.204	1.02	ug/kg	1.0					
Chloroethane	U	ND	0.306	1.02	ug/kg	1.0	TCL	05/12/99	1257	148965	1
Chloroform	U	ND	0.102	1.02	ug/kg	1.0					
Chloroprene	U	ND	10.2	20.4	ug/kg	1.0					
Dibromomethane	U	ND	0.204	1.02	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.102	1.02	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.22	1.22	ug/kg	1.0					
Ethylbenzene	U	ND	0.306	1.02	ug/kg	1.0					
sobutyl Alcohol	U	ND	6.43	10.2	ug/kg	1.0					
Methacrylonitrile	U	ND	0.918	5.10	ug/kg	1.0					
Methyl Bromide	U	ND	0.306	1.02	ug/kg	1.0					
Methyl Chloride	U	ND	0.204	1.02	ug/kg	1.0					
Methyl Iodide	U	ND	0.612	5.10	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.408	5.10	ug/kg	1.0					
Methylene Chloride		2.53	1.43	1.43	ug/kg	1.0					
Propionitrile	U	ND	3.47	10.2	ug/kg	1.0					
Styrene	U	ND	0.306	1.02	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.408	1.02	ug/kg	1.0					
Toluene	U	ND	0.918	1.02	ug/kg	1.0					
Trichloroethylene	U	ND	0.306	1.02	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.306	1.02	ug/kg	1.0					
Vinyl Acetate	U	ND	2.14	5.10	ug/kg	1.0					
Vinyl chloride	U	ND	0.408	1.02	ug/kg	1.0					
Xylenes (TOTAL)	U	ND	0.714	2.04	ug/kg	1.0					
bis(2-Chloromethylethyl)ether	U	ND	5.19	10.2	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.204	1.02	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.306	1.02	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.510	5.10	ug/kg	1.0					

The following prep procedures were performed:

Volatiles 8260 High Level TCL 05/11/99 0756 148965 2

NPWC00197

General Engineering Lab[illegible]ies, Inc.
2040 Savage Road
Charleston, South Carolina[illegible]407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Page 2 of 2

CHAIN OF CUSTODY RECORD

9905273?

Client Name/Facility Name: NTC Orlando

Collected by/Company: Env. Det Chas.

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

40139

	SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify 8010	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Arsenic	Remarks
14	99Spot0173-14	5/9/99	0906		X		X	1																X	SA850 34 .1
15	99Spot0173-15	5/9/99	0912		X		X	1																X	SA850 35 .1
16	99Spot0173-16	5/9/99	0918		X		X	1																X	SA850 36 .1
17	99Spot0173-17	5/9/99	0925		X		X	1																X	SA850 37 .1
18	99Spot0173-18	5/9/99	0930		X		X	1																X	SA850 38 .1
19	99Spot0173-19	5/9/99	0936		X		X	1																X	SA850 39 .1
20	99Spot0173-20	5/9/99	0942		X		X	1																X	SA850 40 .1
21	99Spot0173-21	5/9/99	0950		X		X	1																X	SA850 41 .1
22	99Spot0173-26	5/9/99	0800		X		X	1		1														X	Duplicate-99Spot0173-1 .1
23	99Spot0173-27	5/9/99	1300		X		X	3						1											SA-17 VOC 8021/5035 .3
24	99Spot0173-28	5/9/99	1310		X		X	1							1										SA-17 RCRA-8 Metals .2

Relinquished by:	Date:	Time:	Received by:
K W Pope	5/9/99	1600	
Relinquished by:	Date:	Time:	Received by lab by:
			P. Nolder

Relinquished by:	Date:	Time:	Received by:
	Date:	Time:	Remarks:
	5/9	10:00	

S

White = sam[illegible]ollector Yellow = file Pink = with report

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 13, 1999

Sample ID : 99SPORT0173-28

M = Method	Method-Description
M 3	EPA 7471A
M 4	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

NTWC00191

General Engineering Lab[illegible]es, Inc
2040 Savage Road
Charleston, South Caro. 29407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

CHAIN OF CUSTODY RECORD

9905273?

Page 1 of 2

Client Name/Facility Name: NTC Orlando

Collected by/Company: ENV DET Chm

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

40139

	SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Arsenic	Remarks
					SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods																				
1	99Sport0173-1	5/9/99	0800		X		X	1																X	SPLIT-TO ENCO SA8S021 .1
2	99Sport0173-2	5/9/99	0805		X		X	1																X	SA8S022 .1
3	99Sport0173-3	5/9/99	0809		X		X	1																X	SA8S023 .1
4	99Sport0173-4	5/9/99	0814		X		X	1																X	SA8S024 .1
5	99Sport0173-5	5/9/99	0819		X		X	1																X	SA8S025 .1
6	99Sport0173-6	5/9/99	0825		X		X	1																X	SA8S026 .1
7	99Sport0173-7	5/9/99	0829		X		X	1																X	SA8S027 .1
8	99Sport0173-8	5/9/99	0835		X		X	1																X	SA8S028 .1
9	99Sport0173-9	5/9/99	0840		X		X	1																X	SA8S029 .1
10	99Sport0173-10	5/9/99	0845		X		X	1																X	SA8S030 .1
11	99Sport0173-11	5/9/99	0849		X		X	1																X	SA8S031 .1
12	99Sport0173-12	5/9/99	0855		X		X	1																X	SA8S032 .1
13	99Sport0173-13	5/9/99	0859		X		X	1																X	SA8S033 .1

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
K W Pate	5/9/99	1600					
Relinquished by:	Date:	Time:	Received by lab by:	Date:	Time:	Remarks:	
			P. Powell	10-99	10:00		

White = sa[illegible] collector Yellow = file Pink = with report

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874.
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 13, 1999

Sample ID : 99SPORT0173-27

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	79.7	(73.0 - 129.)
Dibromofluoromethane	APP 9 VOA-8260B	86.4	(66.0 - 117.)
Toluene-d8	APP 9 VOA-8260B	87.1	(73.0 - 122.)

M = Method	Method-Description
M 1	EPA 8260B
1 2	EPA 5035

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 13, 1999

Sample ID : 99SPORT0173-28
Lab ID : 9905273-24
Matrix : Soil
Date Collected : 05/09/99
Date Received : 05/10/99
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Mercury	J	0.0436	0.00205	0.100	mg/kg	1.0	RMJ	05/12/99	0925	148780	
ilver	U	ND	71.3	495	ug/kg	2.0	MBL	05/11/99	1347	148767	2
Arsenic	U	ND	450	495	ug/kg	2.0					
Barium		15700	53.5	495	ug/kg	2.0					
Beryllium	J	107	23.8	495	ug/kg	2.0					
Cadmium	J	131	37.6	495	ug/kg	2.0					
Cobalt	J	93.9	32.7	495	ug/kg	2.0					
Chromium		3970	75.2	495	ug/kg	2.0					
Copper		3970	133	495	ug/kg	2.0					
Nickel		659	62.4	495	ug/kg	2.0					
Lead		15700	155	495	ug/kg	2.0					
Antimony	U	ND	377	990	ug/kg	2.0					
Selenium	U	ND	267	495	ug/kg	2.0					
Tin	U	ND	825	990	ug/kg	2.0					
Thallium	U	ND	437	990	ug/kg	2.0					
Vanadium		3230	52.5	495	ug/kg	2.0					
Zinc		15600	366	495	ug/kg	2.0					

The following prep procedures were performed:

Mercury	ARD	05/10/99	2025	148780	3
TRACE	AJM	05/10/99	1800	148767	4

M = Method	Method-Description
M 1	EPA 7471
2	EPA 6010A

STUDY AREA 18

1. INTRODUCTION

1.1 STUDY AREA 18

SA 18 is located in the central portion of the McCoy Annex (Figure 1). The SA includes several buildings and a paved storage area. The paved storage area was used for the storage of gas cylinders, paints, appliances and recreational vehicles.

1.2 SA 18 INTERIM REMEDIAL ACTION

SOUTHDIV tasked the DET to perform an IRA for this site. The objective of the IRA was to excavate and dispose of soil contaminated with PAHs. The excavation was to continue until the sampling program indicated with reasonable confidence that the concentrations of contaminants at the site were less than non-residential limits specified by FDEP SCG, dated 30 April 1998 or USEPA Region III, dated 01 October 1998, whichever specifies the stricter criteria.

1.2.1 SA 18 Interim Remedial Action Execution Summary

The execution of this IRA consisted of excavating an area approximately 20′ x 20′ to a depth of 2′ at HLA sample location 18S008 (Figure 2). Soil removed from the site was characterized as non-hazardous and was sent to a treatment facility for incineration. A Confirmation sample was collected from each sidewall upon completion of the excavation and tested for PAHs. The results of these samples were all less than the RGOs.

2.0 INTERIM REMEDIAL ACTION EXCECUTION

2.1 ACTIONS PERFORMED BY THE INTERIM REMEDIAL ACTION WORK PLAN

Actions performed are listed below

- Collection of a waste characterization sample
- Removal of approximately 20´x 2´ of asphalt from the western side of excavation
- Excavation and disposal of an area approximately 20´ x 20´ and 2´ in depth
- Collection of confirmatory samples from each sidewall for analysis of PAHs
- Restoration of site by backfilling, grading to surrounding area, and hydroseeding

2.2 OBSERVATIONS NOTES

2.2.1 Soil Conditions

From ground surface to the bottom of the excavation the soil was dark silty sand.

3.0 INTERIM REMEDIAL ACTION OUTCOME

3.1 SITE CONDITIONS FOLLOWING COMPLETION OF WORK

Following completion of work, the DET had removed 30 tons of PAH contaminated soil. The site was backfilled, graded to surrounding area and hydroseeded. Site photographs are included in Appendix B1.

4.0 SAMPLING

4.1 CONFIRMATION SAMPLING

Upon completion of work a confirmation sample was taken on each sidewall and tested for PAHs (Figure 3). See appendix B2 for sampling documentation.

4.2 WASTE CHARACTERIZATION SAMPLING

Waste characterization sample SA-18008 was taken and analyzed for TCLP pesticides. See appendix B2 for sampling documentation.

5.0 WASTE GENERATION

5.1 Non-Hazardous Waste A total of 30 tons of non-hazardous PAH contaminated soil was disposed of to a permitted treatment, storage and disposal facility. Waste Manifests are in appendix B3.

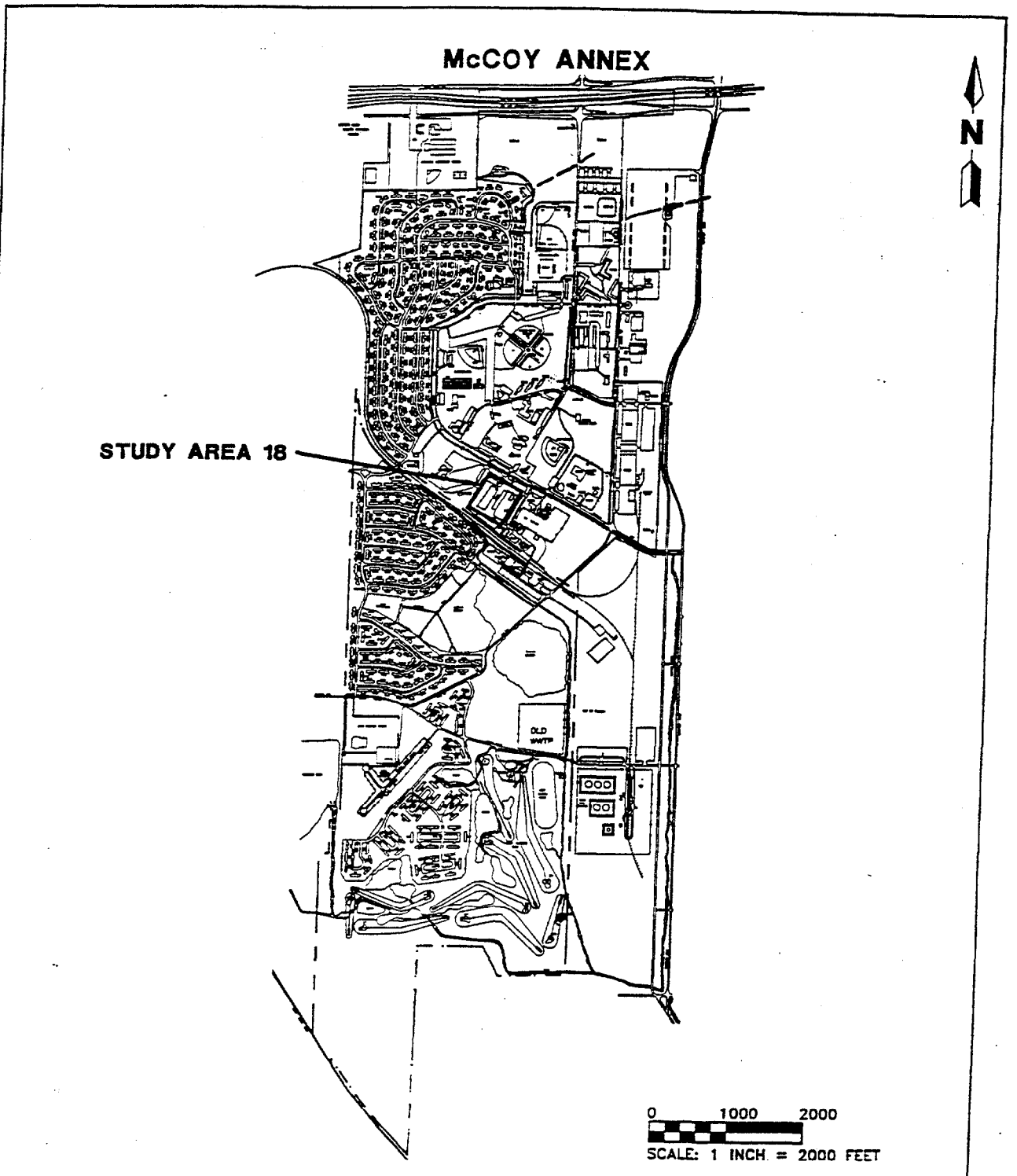


FIGURE 1
LOCATION OF STUDY AREA 18

X:\025301\025301-04\IWP\025301778.DWG DEL-VC 08/18/98 AutoCAD R14

BASE REALIGNMENT AND CLOSURE WORKPLAN FOR INTERIM REMEDIAL ACTION, STUDY AREA 18

NAVAL TRAINING CENTER ORLANDO, FLORIDA

NTC-SA18.WkP
FGW.09.98

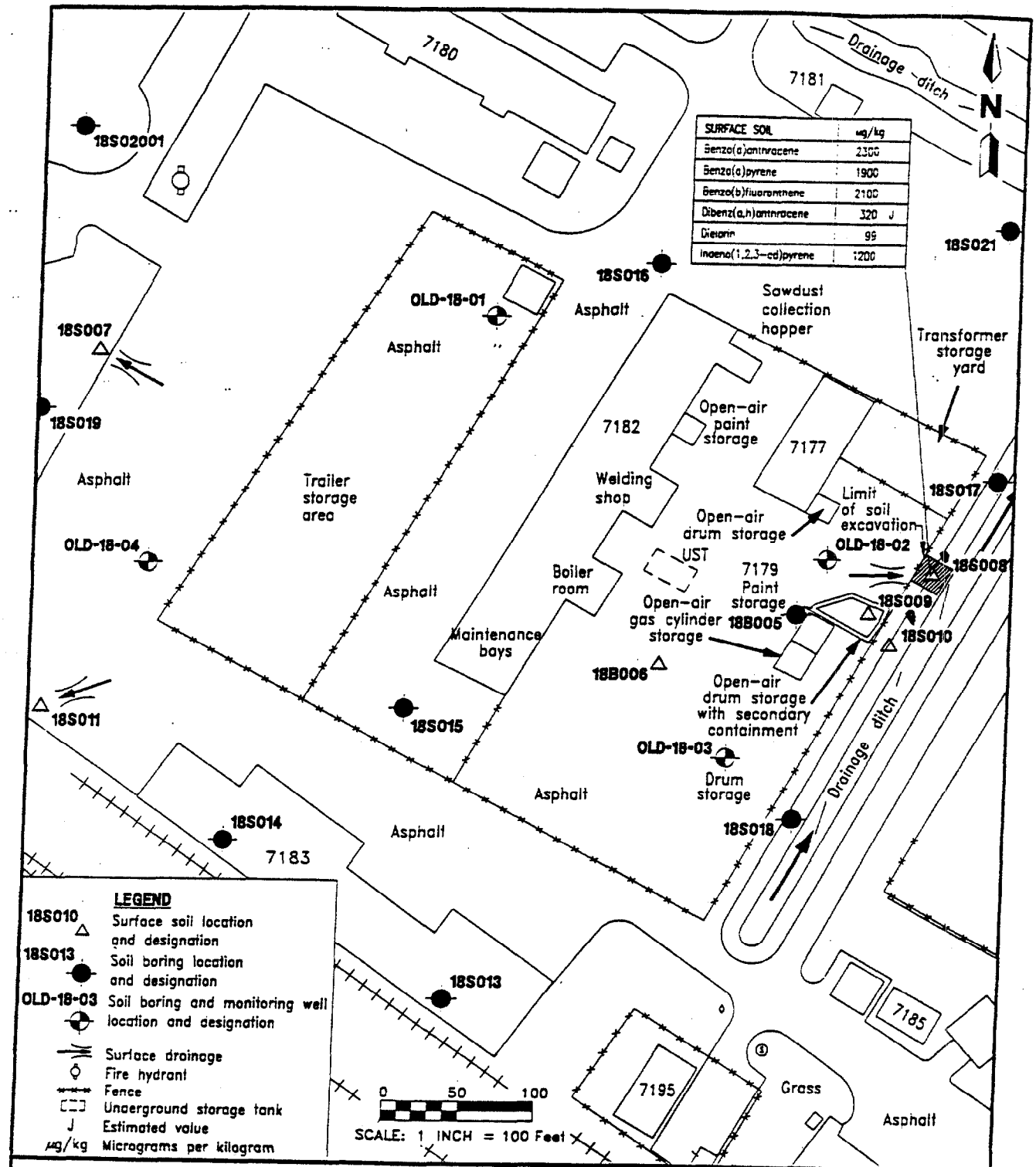
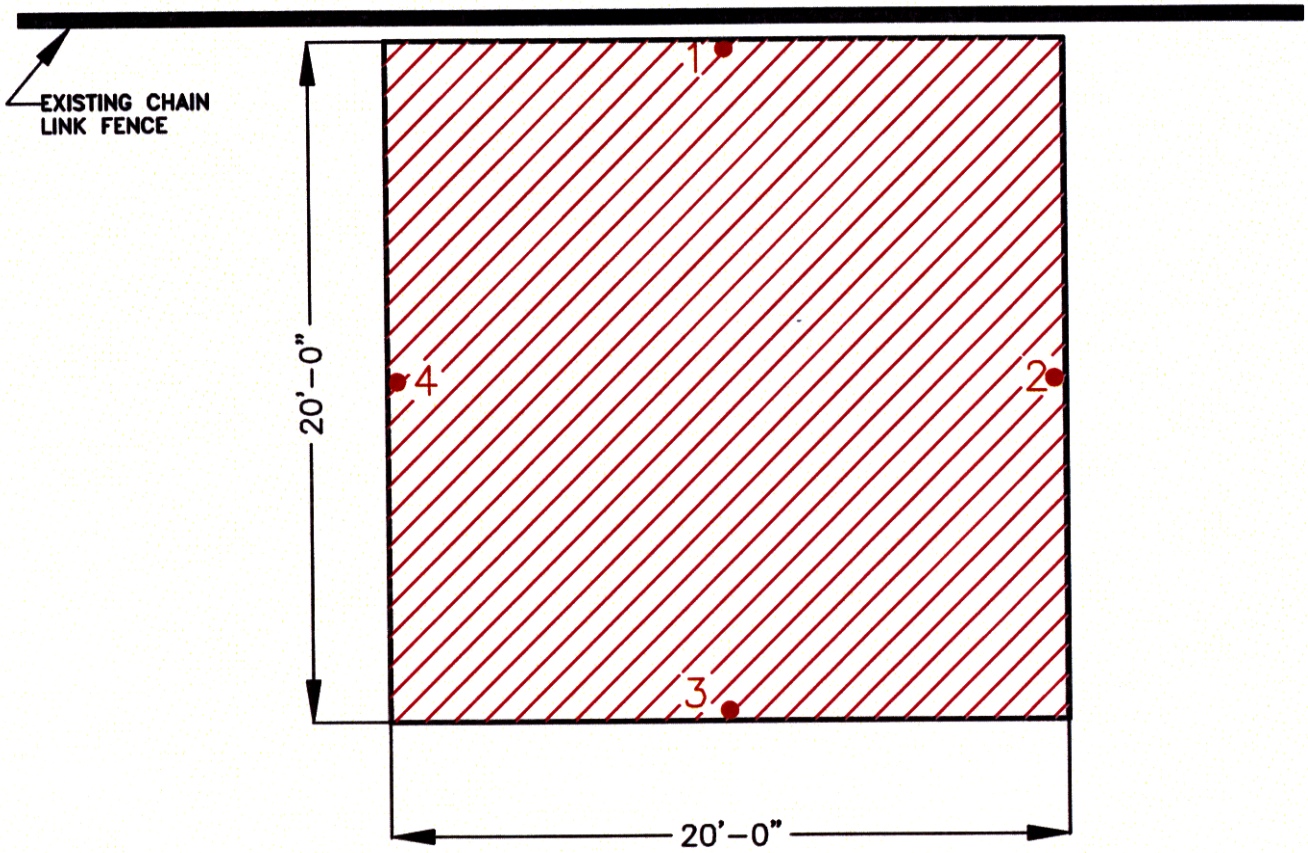


FIGURE 2
EXCEEDANCES OF INDUSTRIAL SCREENING CRITERIA IN SURFACE SOIL STUDY AREA 18, MCCOY ANNEX

K:\025330\02530-04\WKP\025300779.DWG VC-88 09/25/98 08:32:27 AutoCAD R14

BASE REALIGNMENT AND CLOSURE WORKPLAN FOR INTERIM REMEDIAL ACTION, STUDY AREA 18

NAVAL TRAINING CENTER ORLANDO, FLORIDA



LEGEND

1 ●	CONFIRMATORY SAMPLE ID 99SPORT0171-20
2 ●	CONFIRMATORY SAMPLE ID 99SPORT0171-21
3 ●	CONFIRMATORY SAMPLE ID 99SPORT0171-22
4 ●	CONFIRMATORY SAMPLE ID 99SPORT0171-23

EXCAVATED TO 2 FEET DEEP

N

ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE – BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

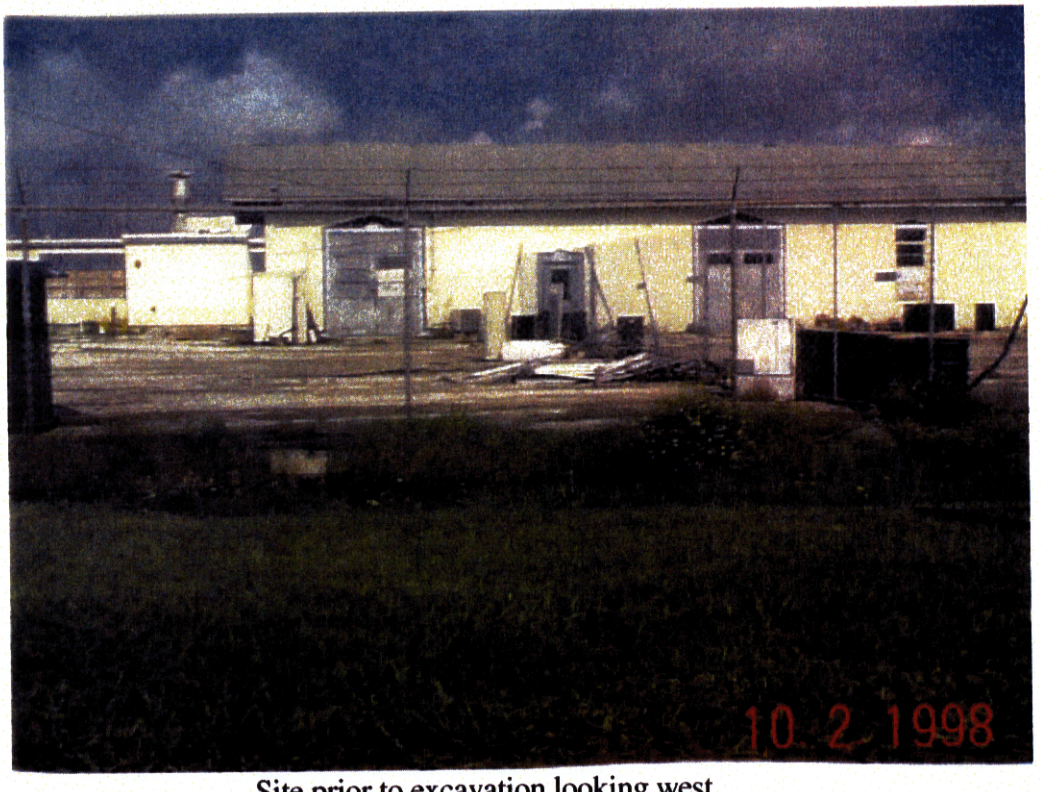
FIGURE 3
McCOY ANNEX ORLANDO SA 18
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS

DATE:	PREPARED BY:	REV
20 JULY 1999	A. J. MOYER	–

SCALE: NONE | SHEET: –

00449E03Y

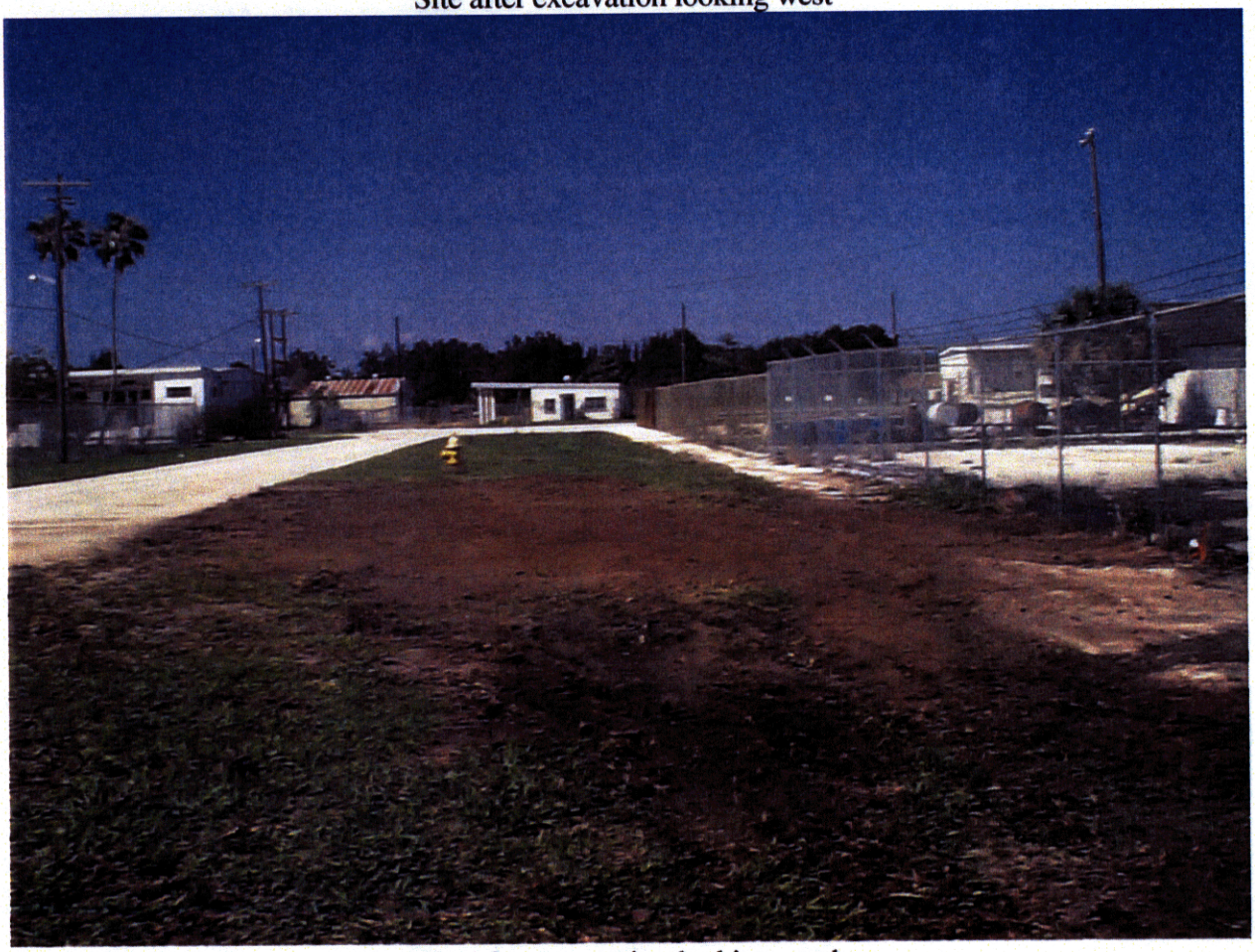
Site prior to excavation looking north



Site prior to excavation looking west

00449EB4Y

Site after excavation looking west



Site after excavation looking south

APPENDIX B1-2

Site after hydroseeding

CONFIRMATION SAMPLES

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID : 99SPORT0171-20
Lab ID : 9905155-20
Matrix : Soil
Date Collected : 05/05/99
Date Received : 05/06/99
Priority : Rush
Collector : Client

Detection Limit / Reporting Limit / Dilution Factor

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	639	1330	ug/kg	4.0	MKP	05/07/99	0930	148519	
Acenaphthylene	U	ND	586	1330	ug/kg	4.0					
Anthracene	U	ND	346	1330	ug/kg	4.0					
Benzo(a)anthracene	U	ND	266	1330	ug/kg	4.0					
Benzo(a)pyrene	U	ND	293	1330	ug/kg	4.0					
Benzo(b)fluoranthene	U	ND	573	1330	ug/kg	4.0					
Benzo(ghi)perylene	U	ND	320	1330	ug/kg	4.0					
Benzo(k)fluoranthene	U	ND	533	1330	ug/kg	4.0					
Chrysene	U	ND	213	1330	ug/kg	4.0					
Dibenzo(a,h)anthracene	U	ND	333	1330	ug/kg	4.0					
Fluoranthene	U	ND	266	1330	ug/kg	4.0					
Fluorene	U	ND	453	1330	ug/kg	4.0					
Indeno(1,2,3-c,d)pyrene	U	ND	320	1330	ug/kg	4.0					
Naphthalene	U	ND	626	1330	ug/kg	4.0					
Phenanthrene	U	ND	240	1330	ug/kg	4.0					
Pyrene	U	ND	293	1330	ug/kg	4.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds CPU 05/06/99 1700 148519 2

Comments:
Surrogate recovery fails due to sample dilution.

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905155-20

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 07, 1999

Sample ID : 99SPORT0171-20

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	47.7	(44.7 - 110.)
Nitrobenzene-d5	M610	0.00*	(42.4 - 107.)
p-Terphenyl-d14	M610	66.6	(45.5 - 104.)

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905155-20

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 10, 1999

Sample ID : 99SPORT0171-21
Lab ID : 9905155-21
Matrix : Soil
Date Collected : 05/05/99
Date Received : 05/06/99
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	634	1320	ug/kg	4.0	MKP	05/07/99	2118	148574	1
Acenaphthylene	U	ND	581	1320	ug/kg	4.0					
Anthracene	U	ND	343	1320	ug/kg	4.0					
Benzo(a)anthracene	U	ND	264	1320	ug/kg	4.0					
Benzo(a)pyrene	U	ND	290	1320	ug/kg	4.0					
Benzo(b)fluoranthene	U	ND	568	1320	ug/kg	4.0					
Benzo(ghi)perylene	U	ND	317	1320	ug/kg	4.0					
Benzo(k)fluoranthene	U	ND	528	1320	ug/kg	4.0					
Chrysene	U	ND	211	1320	ug/kg	4.0					
Dibenzo(a,h)anthracene	U	ND	330	1320	ug/kg	4.0					
Fluoranthene	J	374	264	1320	ug/kg	4.0					
Fluorene	U	ND	449	1320	ug/kg	4.0					
Indeno(1,2,3-c,d)pyrene	U	ND	317	1320	ug/kg	4.0					
Naphthalene	U	ND	620	1320	ug/kg	4.0					
Phenanthrene	U	ND	238	1320	ug/kg	4.0					
Pyrene	U	ND	290	1320	ug/kg	4.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds RDH 05/07/99 1300 148574 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	63.8	(44.7 - 110.)
Nitrobenzene-d5	M610	51.8	(42.4 - 107.)
p-Terphenyl-d14	M610	84.2	(45.5 - 104.)

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 10, 1999

Sample ID : 99SPORT0171-21

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 10, 1999

Sample ID	: 99SPORT0171-22
Lab ID	: 9905155-22
Matrix	: Soil
Date Collected	: 05/05/99
Date Received	: 05/06/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	158	330	ug/kg	1.0	MKP	05/07/99	2145	148574	1
Acenaphthylene	U	ND	145	330	ug/kg	1.0					
Anthracene	U	ND	85.8	330	ug/kg	1.0					
Benzo(a)anthracene	U	ND	66.0	330	ug/kg	1.0					
Benzo(a)pyrene	U	ND	72.6	330	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	142	330	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	79.2	330	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	132	330	ug/kg	1.0					
Chrysene	J	57.6	52.8	330	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	82.5	330	ug/kg	1.0					
Fluoranthene	J	68.5	66.0	330	ug/kg	1.0					
Fluorene	U	ND	112	330	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	79.2	330	ug/kg	1.0					
Naphthalene	U	ND	155	330	ug/kg	1.0					
Phenanthrene	U	ND	59.4	330	ug/kg	1.0					
Pyrene	U	ND	72.6	330	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds RDH 05/07/99 1300 148574 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	63.2	(44.7 - 110.)
Nitrobenzene-d5	M610	60.3	(42.4 - 107.)
p-Terphenyl-d14	M610	75.9	(45.5 - 104.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905155-22

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 10, 1999

Sample ID : 99SPORT0171-22

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 10, 1999

Sample ID	: 99SPORT0171-23
Lab ID	: 9905155-23
Matrix	: Soil
Date Collected	: 05/05/99
Date Received	: 05/06/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	158	330	ug/kg	1.0	MKP	05/08/99	1049	148574	
Acenaphthylene	U	ND	145	330	ug/kg	1.0					
Anthracene	U	ND	85.8	330	ug/kg	1.0					
Benzo(a)anthracene	U	ND	66.0	330	ug/kg	1.0					
Benzo(a)pyrene	U	ND	72.6	330	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	142	330	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	79.2	330	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	132	330	ug/kg	1.0					
Chrysene	U	ND	52.8	330	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	82.5	330	ug/kg	1.0					
Fluoranthene	J	80.2	66.0	330	ug/kg	1.0					
Fluorene	U	ND	112	330	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	79.2	330	ug/kg	1.0					
Naphthalene	U	ND	155	330	ug/kg	1.0					
Phenanthrene	U	ND	59.4	330	ug/kg	1.0					
Pyrene	U	ND	72.6	330	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds RDH 05/07/99 1300 148574 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	53.6	(44.7 - 110.)
Nitrobenzene-d5	M610	46.9	(42.4 - 107.)
p-Terphenyl-d14	M610	66.0	(45.5 - 104.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905155-23

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 10, 1999

Sample ID : 99SPORT0171-23

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

URGENT

CHAIN OF CUSTODY RECORD

— 23 DAY TURNAROUND —

General Engineering Lab ies, Inc.
2040 Savage Road
Charleston, South Caroli ,07
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Client Name/Facility Name: NTC Orlando

Collected by/Company: Env Det Chas

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	PAH 8310	Remarks
99Sport0171-1	5/5/99	1110		X		X	1																X	SA175011
99Sport0171-2	5/5/99	1114		X		X	1																X	SA175012
99Sport0171-3	5/5/99	1120		X		X	1																X	SA175013
99Sport0171-4	5/5/99	1125		X		X	1																X	SA175014
99Sport0171-5	5/5/99	1130		X		X	1																X	SA175015.
99Sport0171-6	5/5/99	1134		X		X	1																X	SA175016
99Sport0171-7	5/5/99	1139		X		X	1																X	SA175017
99Sport0171-8	5/5/99	1145		X		X	1																X	SA175018
99Sport0171-9	5/5/99	1150		X		X	1																X	SA175019
99Sport0171-10	5/5/99	1156		X		X	1																X	SA175020
99Sport0171-11	5/5/99	1202		X		X	1																X	SA175021
99Sport0171-12	5/5/99	1207		X		X	1																X	SA175022
99Sport0171-13	5/5/99	1213		X		X	1																X	SA175023

Relinquished by: K W Cope — Date: 5/5/99 — Time: 1910 — Received by: W.R. Hiers, Jr.

Relinquished by: Chris Wright — Date: 5/6/99 — Time: 1505 — Received by lab by: P. Power

Relinquished by: W.R. Hiers, Jr. — Date: 5/6/99 — Time: 15:25 — Remarks:

Relinquished by: — Date: 5/6/99 — Time: 1432 — Received by: Chris Wright

White = sample collector Yellow = file Pink = with report

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

SAMPLE ANALYSIS REQUIRED (X) - use remarks area to specify specific compounds or methods

URGENT

CHAIN OF CUSTODY RECORD

— 2 WORK DAY TURNAROUND —

General Engineering Lab[illegible]ies, Inc.
2040 Savage Road
Charleston, South Caroli[illegible]07
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Page 2 of 2

Client Name/Facility Name: NTC Orlando

Collected by/Company: Env Def CHAS

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	PAH 8310	Remarks
99Sport0171-14	5/5/99	1220		X	X		1																X	SA17S024
99Sport0171-15	5/5/99	1226		X	X		1																X	SA17S025
99Sport0171-16	5/5/99	1234		X	X		1																X	SA17S026
99Sport0171-17	5/5/99	1240		X	X		1																X	SA17S027
99Sport0171-18	5/5/99	1247		X	X		1																X	SA17S028
99Sport0171-19	5/5/99	1255		X	X		1																X	SA17S029
99Sport0171-20	5/5/99	1300		X	X		1																X	SA18S009
99Sport0171-21	5/5/99	1315		X	X		1																X	SA18S010
99Sport0171-22	5/5/99	1330		X	X		1																X	SA18S011
99Sport0171-23	5/5/99	1345		X	X		1																X	SA18S012
99Sport0171-24	5/5/99	1400		X	X		1																X	Duplicate of SA18S011 SA18C013
99Sport0171-25	5/5/99	1315	X				1																X	FIELD BLANK SA18S012 SA18F014

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

Relinquished by:	Date:	Time:	Received by:
K W Cope	5/5/99	1910	W.R. Hiers, Jr.
Relinquished by:	Date:	Time:	Received by lab by:
Vivian Washington	5/6/99	1500	P. Mower

Relinquished by:	Date:	Time:	Received by:
W.R. Hiers, Jr.	5/6/99	1432	Vivian Washington
Date:	Time:	Remarks:	
5/6/99	15.05		

White = sample collector Yellow = file Pink = with report

WASTE CHARACTERIZATION

RESULTS OF ANALYSIS

EPA METHOD 1311/8080 - TCLP PESTICIDES	SA-18008	Units
Chlordane (Total)	1.0 U	µg/L
Endrin	0.050 U	µg/L
Heptachlor	0.050 U	µg/L
Heptachlor Epoxide	0.050 U	µg/L
gamma-BHC (Lindane)	0.050 U	µg/L
Methoxychlor	1.0 U	µg/L
Toxaphene	2.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
2,4,5,6-TCMX	116	30-150
	104	34-138
Extracted	04/23/99	
Date Analyzed	04/24/99	

U Compound was analyzed for but not detected to the level shown.

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
NTC Orlando		

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE	FAX
FL	R. Cope	496-2173	869-5468

CLIENT NAME	CLIENT PROJECT MANAGER
ENV DET CHASN	Ross Turnbull

CLIENT ADDRESS (CITY, STATE, ZIP): 1899 N. Hobson Ave N. Charleston, S.C. 29405

PAGE ___ OF ___

☐ STANDARD REPORT DELIVERY

☐ EXPEDITED REPORT DELIVERY (surcharge)

Date Due: ___

	SAMPLE					MATRIX TYPE									REQUIRED ANALYSIS			
STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	TCLP Metals	TCLP Pesticides	NUMBER OF CONTAINERS SUBMITTED	REMARKS
1	4/20/99	1450	X		SA-35009					✓					X1			
2	4/20/99	1505	X		SA 35013					✓					X1			
3	4/20/99	1540	X		SA-35015					✓					X1			
4	4/20/99	1640		X	SA 80001					✓					1	X- TCLP Pesticides Requested		5 locations Area A
5	4/20/99	1700		X	SA-80002					✓					1	X on 4-28-99.		5 locations Area B
6	4/20/99	1720		X	SA-80003					✓					1	X		5 locations Area C
7	4/21/99	1010	X		SA-42002					✓					1			
8	4/21/99	1022	X		SA-42001					✓					1			
9	4/21/99	1120	X		SA-23005					✓					1			McCoy Annex
10	4/21/99	1145		X	SA-18008					✓						1		" 5 locations
11	4/21/99	1201		X	SA-17035					✓						1		" 5 locations
12																		
13																		
14																		

SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	4/21/99	1240	K W Cope					
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	4/21/99	1240	David L. Young					
RECEIVED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS
Kevin ☐ Jacksonville ☒ Orlando	4/21/99	12:40PM	☐ YES ☒ NO	OR630	

STUDY AREA 23

1. INTRODUCTION

1.1 STUDY AREA 23

SA 23 is located in the northeast corner of the McCoy Annex (Figure 1). The SA includes a former swimming pool and pool house which were demolished in the 1980's. A seven foot high, raised earthen area covered with grass now exists on the site. A twelve inch diameter metal drain pipe extends from the base of the earthen area to the adjacent drainage ditch east of the mound (Figure 2).

1.2 SA 23 INTERIM REMEDIAL ACTION

SOUTHDIV tasked the DET to perform an IRA for this site. The objective of the IRA was to excavate and dispose of soil contaminated with PAHs.

1.2.1 SA 23 Interim Remedial Action Execution Summary

The execution of this IRA consisted of excavating an area approximately 5´ x 5´ to a depth of 2´ at HLA sample location 23S005 (Figure 3). Soil removed from the site was characterized as non-hazardous and was sent to a treatment facility for incineration.

2.0 INTERIM REMEDIAL ACTION EXCECUTION

2.1 ACTIONS PERFORMED BY THE INTERIM REMEDIAL ACTION WORK PLAN

Actions performed are listed below

- Collection of a waste characterization sample
- Excavation and disposal of an area approximately 5′ x 5′ to a depth of 6 inches
- Sealed off drainage pipe by plugging/filling end with concrete

2.2 OBSERVATIONS NOTES

2.2.1 Soil Conditions

From ground surface to the bottom of the excavation the soil was dark silty sand.

2.3 PLAN MODIFICATIONS AND JUSTIFICATION

The interim remedial action work plan specified the removal of soil to a depth of 2′ at sample point 23S005. However, upon the start of excavation it was discovered that a concrete splash block (6′ x 5′ x 6 inches thick) existed. The Orlando Partnering Team (OPT) instructed the DET to excavate and dispose of the soil atop the splash block.

3.0 INTERIM REMEDIAL ACTION OUTCOME

3.1 SITE CONDITIONS FOLLOWING COMPLETION OF WORK

Following completion of work, the DET had removed 1 ton of PAH contaminated soil. The drainage pipe was plugged and the ditch was graded to surrounding area. Site photographs are included in Appendix C1.

4.0 SAMPLING

4.1 CONFIRMATION SAMPLING

Confirmation sampling was not required to be taken.

4.2 WASTE CHARACTERIZATION SAMPLING

Waste characterization sample S23005 was taken and analyzed for TCLP metals. See appendix C2 for sampling documentation.

5.0 WASTE GENERATION

5.1 Non-Hazardous Waste

One ton of non-hazardous PAH contaminated soil was disposed of to a permitted treatment, storage and disposal facility. Waste Manifests are in appendix C3.

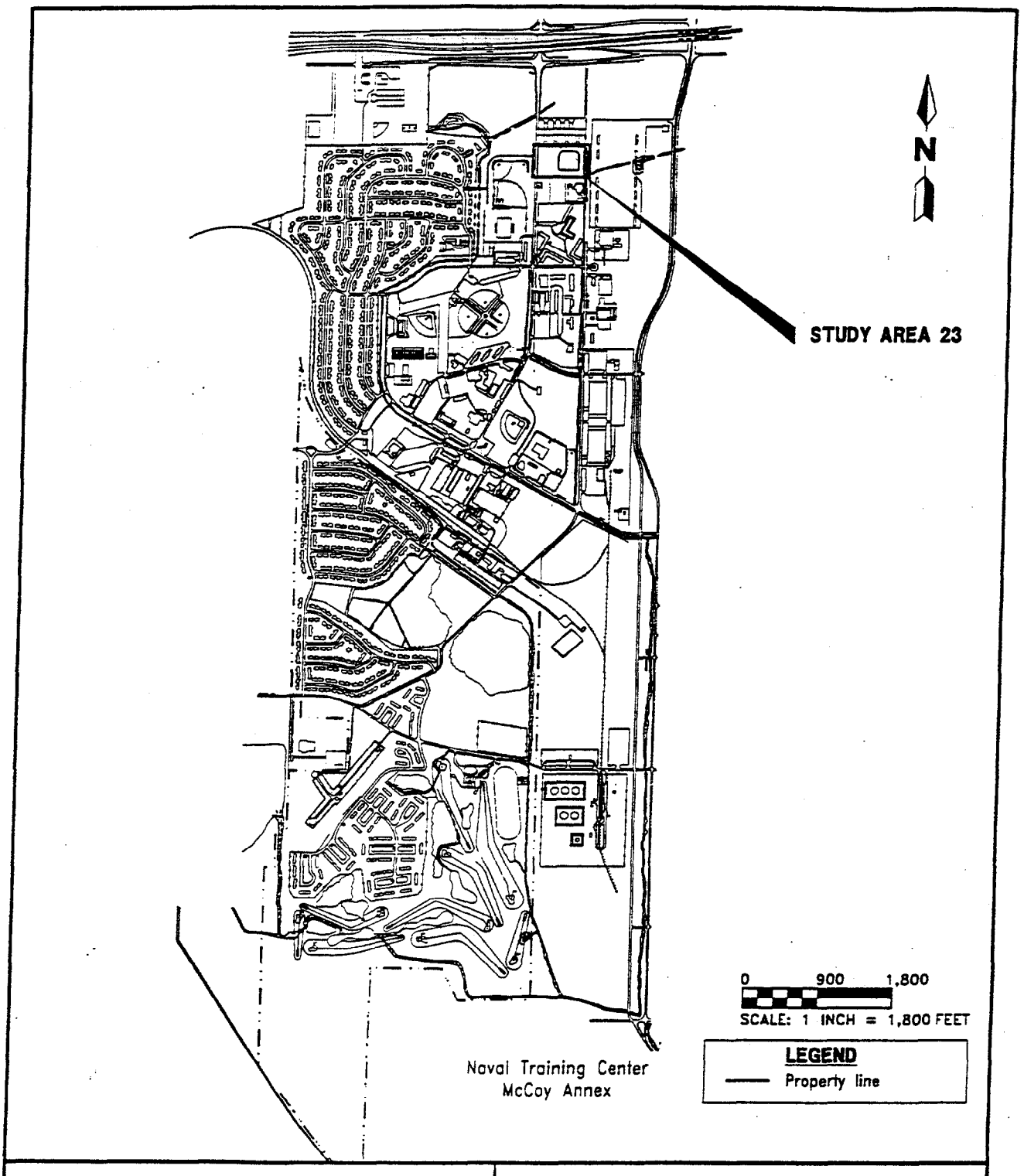
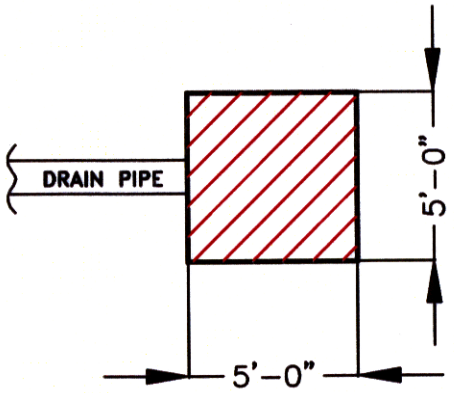


FIGURE 1
STUDY AREA LOCATION

K:\02530\02530-04\WKP\02530788.DWG, 88-88 09/18/98 13:27:21 AutoCAD R14

BASE REALIGNMENT AND CLOSURE WORK PLAN FOR INTERIM REMEDIAL ACTION, STUDY AREA 23

NAVAL TRAINING CENTER ORLANDO, FLORIDA



N

LEGEND

EXCAVATED TO 6 INCHES DEEP

	ENVIRONMENTAL DETACHMENT CHARLESTON 1899 NORTH HOBSON AVENUE – BUILDING 30 NORTH CHARLESTON, SOUTH CAROLINA 29405–2106
	FIGURE 3 McCOY ANNEX ORLANDO SA 23 EXCAVATION BOUNDARIES
DATE: 22 JULY 1999	PREPARED BY: A. J. MOYER — REV: –
SCALE: NONE	SHEET: –

00449E05Y

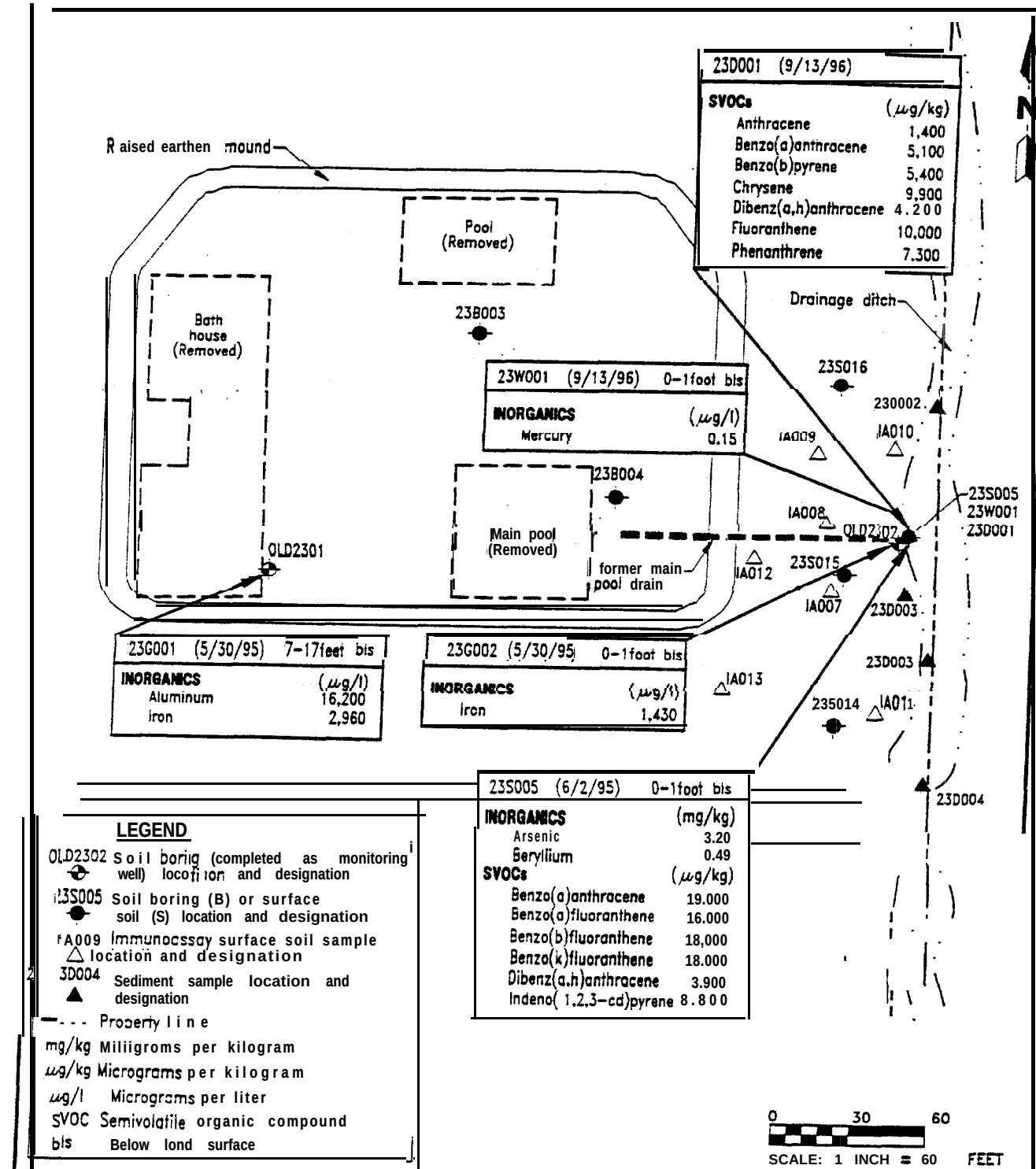


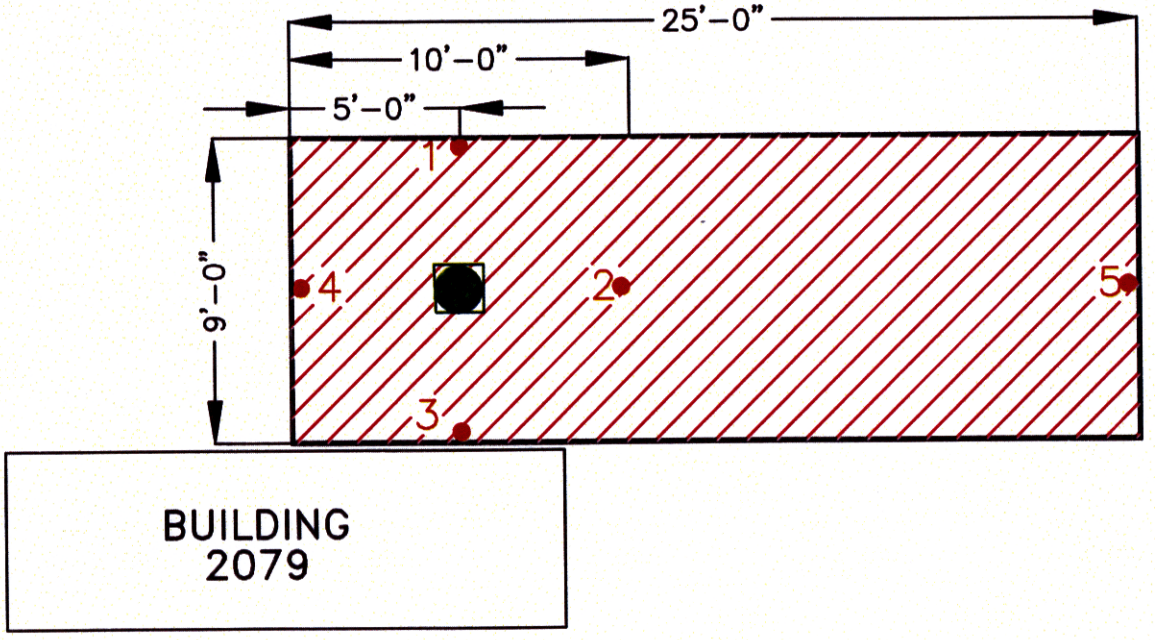
FIGURE 4
EXCEEDANCES OF SCREENING CRITERIA

BASE REALIGNMENT AND CLOSURE WORK PLAN FOR INTERIM REMEDIAL ACTION, STUDY AREA 23

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

K:\02530\02530-04\WKP\02530791.DWG 8B-8B 09/18/98 13:42:51 AutoCAD R14

NTC-SA23.WkP
FGW.09.98



LEGEND

1 ●	CONFIRMATORY SAMPLE ID SA35SA9
2 ●	CONFIRMATORY SAMPLE ID SA35SA10
3 ●	CONFIRMATORY SAMPLE ID SA35SA11
4 ●	CONFIRMATORY SAMPLE ID SA35SA12
5 ●	CONFIRMATORY SAMPLE ID 99SPORT0183-2
■	SAMPLE POINT 35S005
▨	EXCAVATED TO 2 FEET DEEP

N

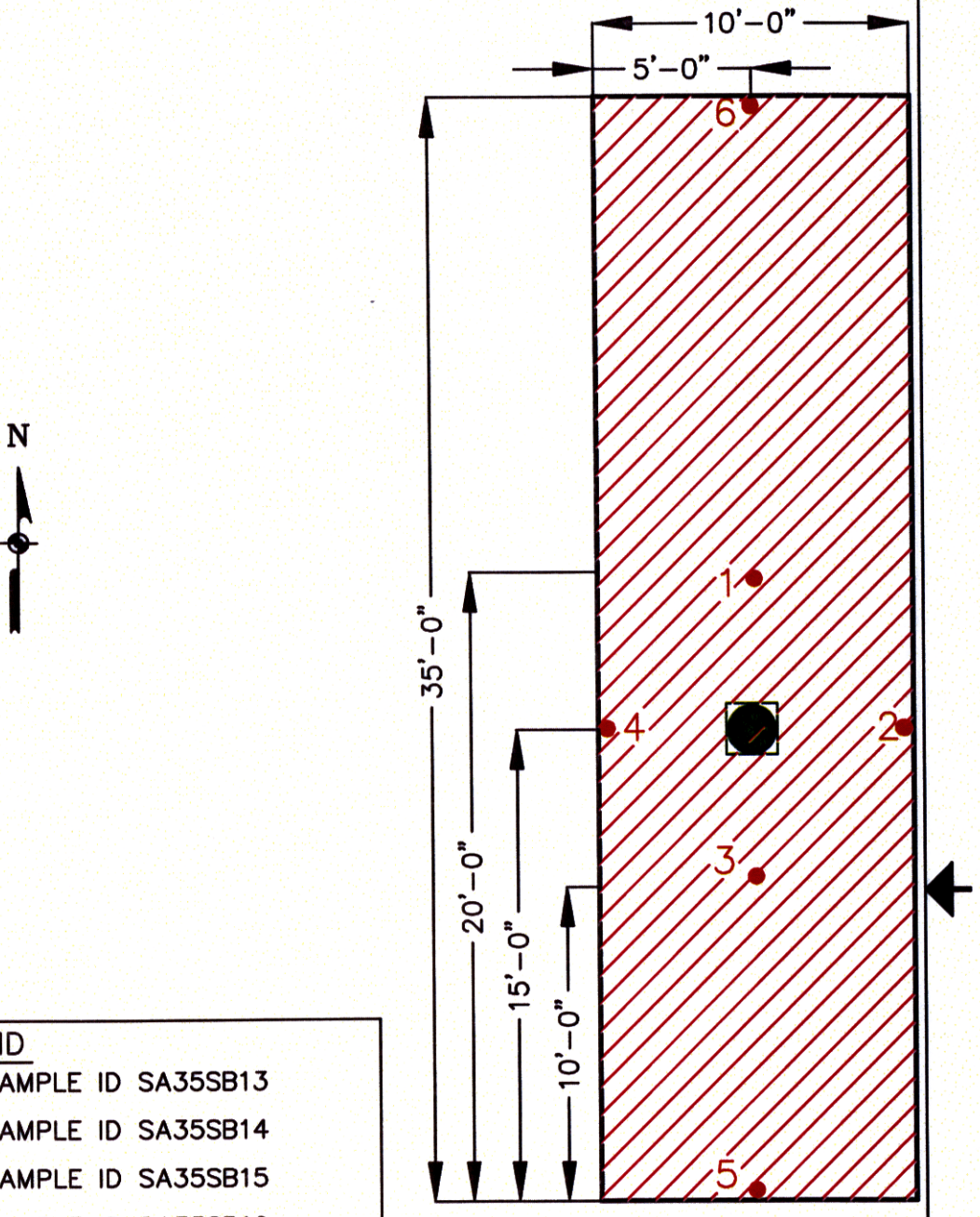
ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE - BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 6
NAVAL TRAINING CENTER ORLANDO SA 35 AREA A
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS

DATE:	PREPARED BY:	REV
13 AUGUST 1999	A. J. MOYER	-

SCALE: NONE | SHEET: -

00449EB7Y



LEGEND

1 ● CONFIRMATORY SAMPLE ID SA35SB13

2 ● CONFIRMATORY SAMPLE ID SA35SB14

3 ● CONFIRMATORY SAMPLE ID SA35SB15

4 ● CONFIRMATORY SAMPLE ID SA35SB16

5 ● CONFIRMATORY SAMPLE ID SA35SB63

6 ● CONFIRMATORY SAMPLE ID SA35SB67

MONITORING WELL OLD-35-2

EXCAVATED TO 2 FEET DEEP

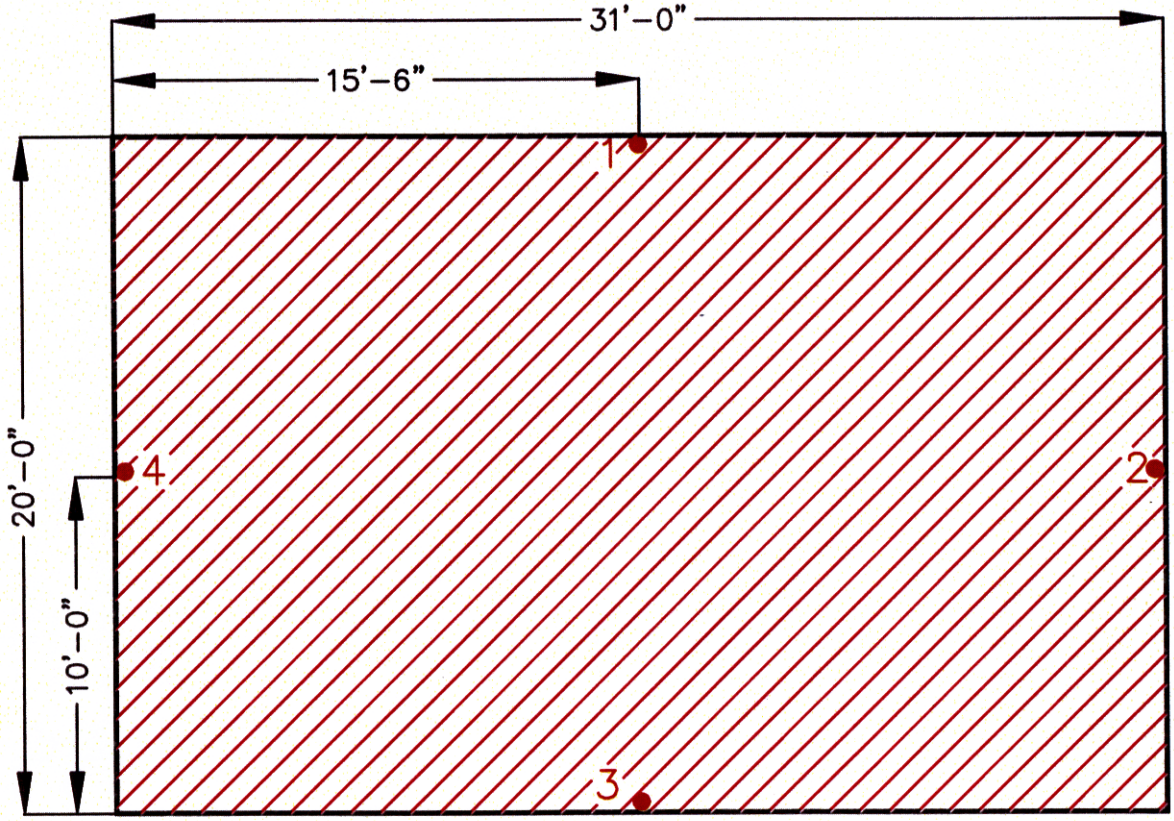
ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE - BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 7

NAVAL TRAINING CENTER ORLANDO SA 35 AREA B
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS

DATE:	PREPARED BY:	REV
15 AUGUST 1999	A. J. MOYER	-

SCALE: NONE | SHEET: -



LEGEND

1 ● CONFIRMATORY SAMPLE ID SA35SC46 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SA35SC50 DEPTH OF 8'

2 ● CONFIRMATORY SAMPLE ID SA35SC47 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SA35SC51 DEPTH OF 8'

3 ● CONFIRMATORY SAMPLE ID SA35SC48 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SA35SC52 DEPTH OF 8'

4 ● CONFIRMATORY SAMPLE ID SA35SC49 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SA35SC53 DEPTH OF 8'

▨ EXCAVATED TO 9 FEET DEEP

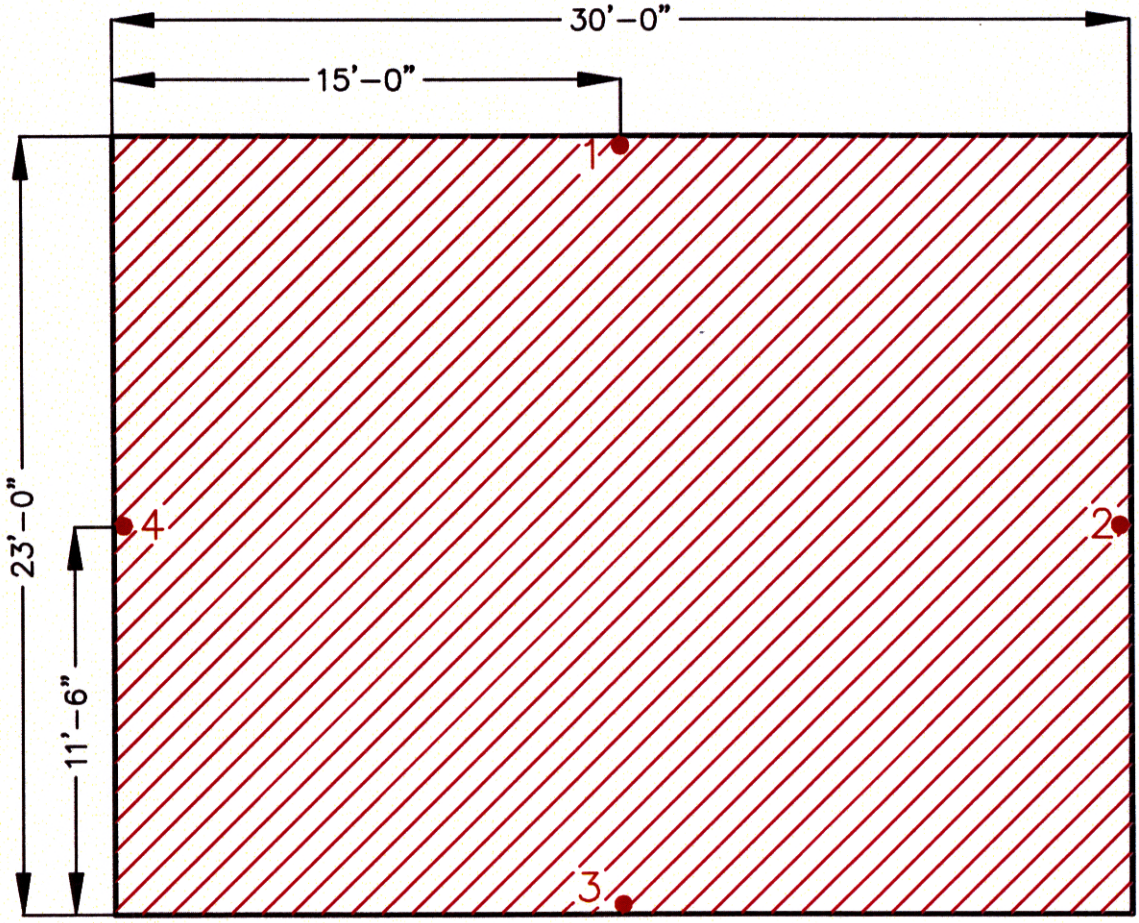
N

ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE – BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 8
NAVAL TRAINING CENTER ORLANDO SA 35 AREA C
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS

DATE:	PREPARED BY:	REV
15 AUGUST 1999	A. J. MOYER	–

SCALE: NONE		SHEET: –



LEGEND

1 ● CONFIRMATORY SAMPLE ID SA35SD1 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SA35SD5 DEPTH OF 8'

2 ● CONFIRMATORY SAMPLE ID SA35SD2 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SA35SD6 DEPTH OF 8'

3 ● CONFIRMATORY SAMPLE ID SA35SD3 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SA35SD7 DEPTH OF 8'

4 ● CONFIRMATORY SAMPLE ID SA35SD4 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SA35SD8 DEPTH OF 8'

▨ EXCAVATED TO 9 FEET DEEP

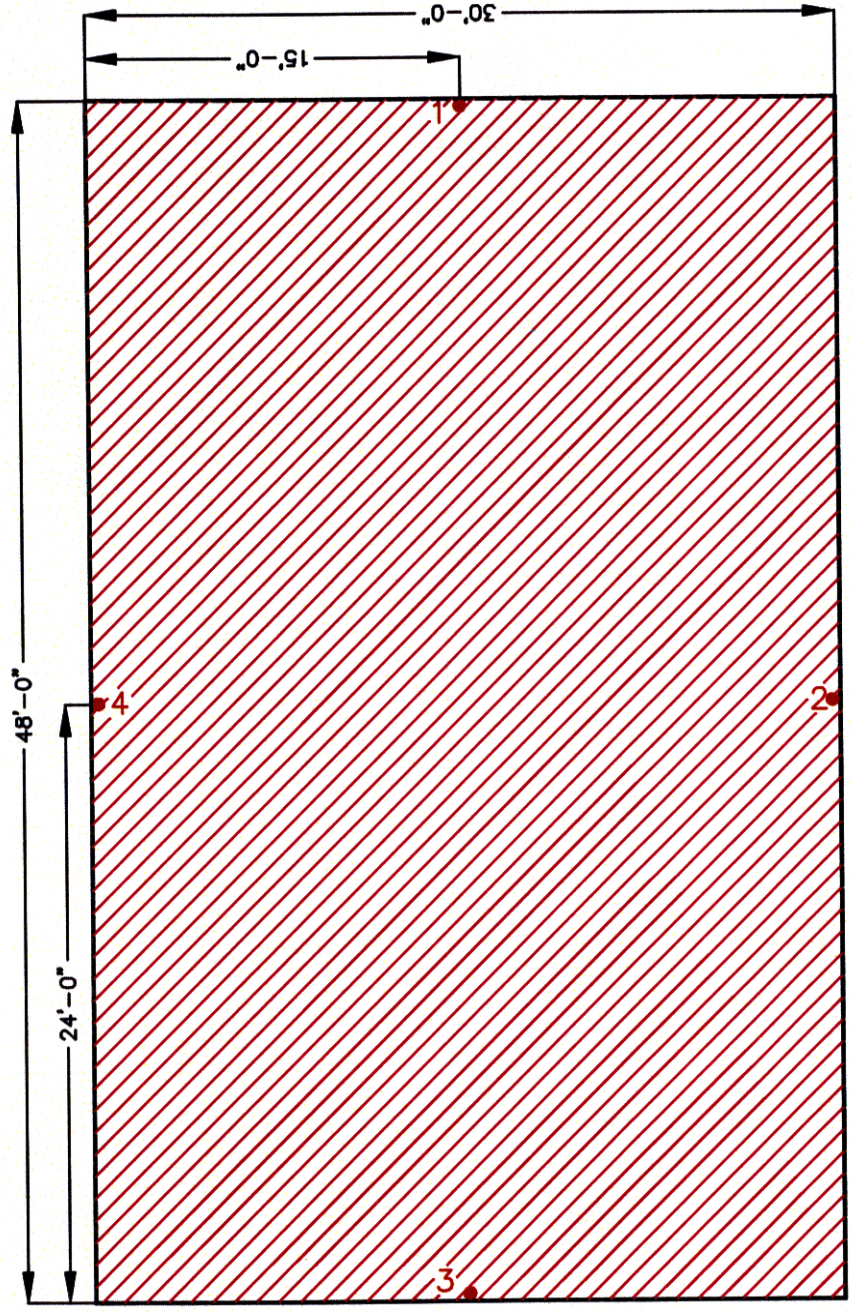
N

ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE – BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 9
NAVAL TRAINING CENTER ORLANDO SA 35 AREA D
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS

DATE:	PREPARED BY:	REV
15 AUGUST 1999	A. J. MOYER	–

SCALE: NONE | SHEET: –



ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE - BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 10
NAVAL TRAINING CENTER ORLANDO SA 35 AREA E
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS

DATE	PREPARED BY:	REV
15 AUGUST 1999	A. J. MOYER	-
SCALE -		SHEET -

N

LEGEND

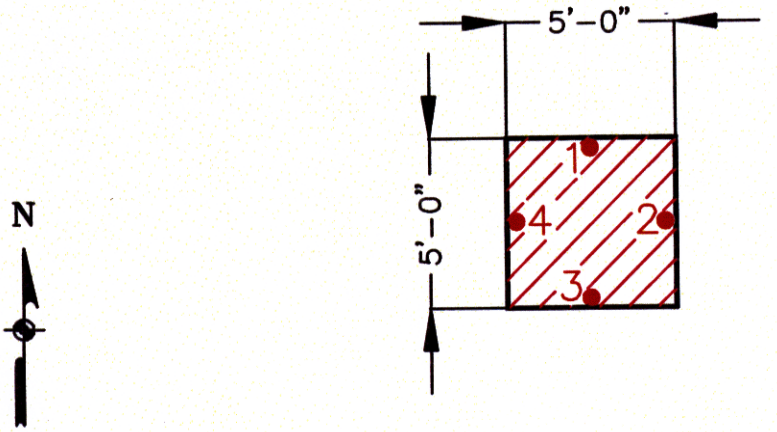
1 ● CONFIRMATORY SAMPLE ID SPORT0164-1 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SA35SE30 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SPORT0164-5 DEPTH OF 8'
CONFIRMATORY SAMPLE ID SA35SE34 DEPTH OF 8'

2 ● CONFIRMATORY SAMPLE ID SPORT0164-2 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SA35SE31 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SPORT0164-6 DEPTH OF 8'
CONFIRMATORY SAMPLE ID SA35SE35 DEPTH OF 8'

3 ● CONFIRMATORY SAMPLE ID SPORT0164-3 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SA35SE32 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SPORT0164-7 DEPTH OF 8'
CONFIRMATORY SAMPLE ID SA35SE36 DEPTH OF 8'

4 ● CONFIRMATORY SAMPLE ID SPORT0164-4 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SA35SE33 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SPORT0164-8 DEPTH OF 8'
CONFIRMATORY SAMPLE ID SA35SE37 DEPTH OF 8'

EXCAVATED TO 9 FEET DEEP



LEGEND

1 ● CONFIRMATORY SAMPLE ID SA35SG26

2 ● CONFIRMATORY SAMPLE ID SA35SG27

3 ● CONFIRMATORY SAMPLE ID SA35SG28

4 ● CONFIRMATORY SAMPLE ID SA35SG29

▨ EXCAVATED TO 2 FEET DEEP

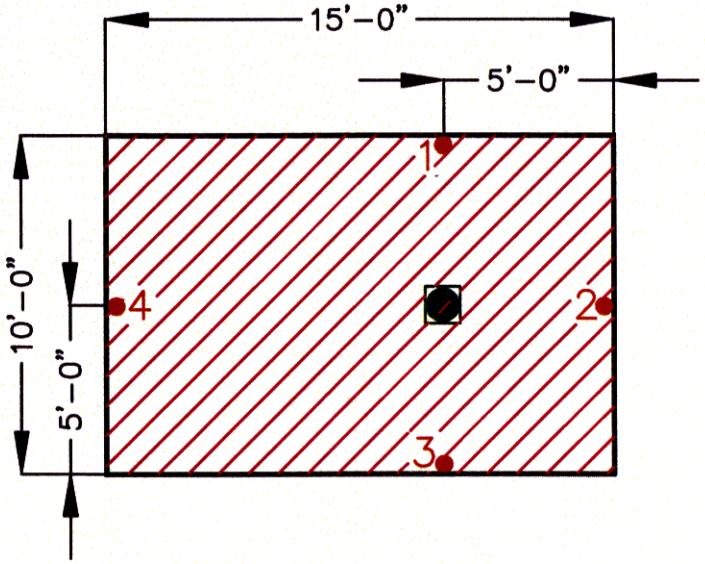
ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE – BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 11

NAVAL TRAINING CENTER ORLANDO SA 35 AREA G
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS

DATE:	PREPARED BY:	REV
15 AUGUST 1999	A. J. MOYER	–

SCALE: NONE | SHEET: –



N

LEGEND

1 ● CONFIRMATORY SAMPLE ID SA35SH17

2 ● CONFIRMATORY SAMPLE ID SA35SH18

3 ● CONFIRMATORY SAMPLE ID SA35SH19

4 ● CONFIRMATORY SAMPLE ID SPORT0175-3

■ SAMPLE POINT 35S007

▨ EXCAVATED TO 2 FEET DEEP

ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE - BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 12

NAVAL TRAINING CENTER ORLANDO SA 35 AREA H
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS

DATE:	PREPARED BY:	REV
15 AUGUST 1999	A. J. MOYER	-

SCALE: NONE | SHEET: -

SITE AFTER EXCAVATION WITH DRAIN PIPE CEMENT FORMS

SITE AFTER EXCAVTION LOOKING DOWN

WASTE CHARACTERIZATION

RESULTS OF ANALYSIS

TCLP METALS	METHOD	SA-23005	Units
TCLP Arsenic	1311/7060	0.050 U	mg/L
Date Analyzed		04/23/99	
TCLP Barium	1311/7080	2.0 U	mg/L
Date Analyzed		04/23/99	
TCLP Cadmium	1311/7130	0.10 U	mg/L
Date Analyzed		04/23/99	
TCLP Chromium	1311/7190	0.50 U	mg/L
Date Analyzed		04/23/99	
TCLP Lead	1311/7420	0.50 U	mg/L
Date Analyzed		04/23/99	
TCLP Mercury	1311/7470	0.0050 U	mg/L
Date Analyzed		04/26/99	
TCLP Selenium	1311/7740	0.050 U	mg/L
Date Analyzed		04/25/99	
TCLP Silver	1311/7760	0.20 U	mg/L
Date Analyzed		04/23/99	

Compound was analyzed for but not detected to the level shown.

QS[illegible]F # _____

ENVIRONME[illegible]AL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
NTC Orlando		

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE	FAX
FL	R. Cope	496-2173	861-5468

CLIENT NAME	CLIENT PROJECT MANAGER
ENV DET CHASN	Ras Lawrence

CLIENT ADDRESS (CITY, STATE, ZIP)
1899 N. Hobson Ave N. Charleston, S.C 29405

PAGE ____ OF ____

☐ STANDARD REPORT DELIVERY

☐ EXPEDITED REPORT DELIVERY (surcharge)

Date Due: _____

STATION	SAMPLE DATE	SAMPLE TIME	GRAB	COMP	SAMPLE IDENTIFICATION	MATRIX: SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	REQUIRED ANALYSIS: TCLP Metals	TCLP Pesticides	NUMBER OF CONTAINERS SUBMITTED	REMARKS
1	4/20/99	1450	X		SA-35009					✓					X		1	
2	4/20/99	1505	X		SA 35013					✓					X		1	
3	4/20/99	1540	X		SA-35015					✓					X		1	
4	4/20/99	1640		X	SA-80001					✓					1	X	1	5 locations Area A
5	4/20/99	1700		X	SA-80002					✓					1	X	1	5 locations Area B
6	4/20/99	1720		X	SA-80003					✓					1	X	1	5 locations Area C
7	4/21/99	1010	X		SA-42002					✓					1			
8	4/21/99	1022	X		SA-42001					✓					1			
9	4/21/99	1120	X		SA-23005					✓					1			McCoy Annex
10	4/21/99	1145		X	SA-18008					✓						1		" 5 locations
11	4/21/99	1201		X	SA-17035					✓						1		" 5 locations
12																		
13																		
14																		

SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	4/21/99	1240	K W Cope					
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	4/21/99	1240	David Young					
RECEIVED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS
Kevin C ☐ Jacksonville ☒ Orlando	4/21/99	12:40PM	☐ YES ☒ NO	OR630	

Appendix E in
SA 35 ESSR

STUDY AREA 35

1. INTRODUCTION

1.1 STUDY AREA 35

SA 35 is located on the Main base, Naval Training Center, Orlando (Figure 1). Most of the site consists of a large paved parking area and Buildings 2078 and 2079. Building 2078 is a former aircraft hangar used since 1968 for vehicle maintenance and Building 2079 was used to store tires, batteries, and hazardous materials (Figure 2). See Figures 3, 4, and 5 for the locations of excavation areas "A" thru "T" in SA 35.

1.2 SA 35 INTERIM REMEDIAL ACTION

SOUTHDIV tasked the DET to perform an IRA for excavation areas "A" thru "T". The objective of the IRA was to excavate and dispose of soil contaminated with Total Recoverable Petroleum Hydrocarbons (TRPH) and/or arsenic. The excavation was to continue until the sampling program indicated with reasonable confidence that the concentrations of contaminants at the site were less than residential limits specified by FDEP SCG, dated 30 April 1998 or USEPA Region III, dated 01 October 1998, whichever specifies the stricter criteria.

1.2.1 SA 35 Interim Remedial Action Execution Summary

The execution of this IRA is discussed in the following sections:

1.2.1.1 SA 35 Area A

The execution of this IRA consisted of excavating an area approximately 9′ x 25′ to a depth of 2′ at HLA sample point 35S005 (Figure 3). Soil removed from the site was characterized as non-hazardous and was sent to a treatment facility for incineration. Confirmation samples were collected from the sidewalls upon completion of the excavation and tested for TRPH and arsenic. The results of these samples were all less than the RGOs except for the sample along the side of Building 2079 (sample SA35SA11) as shown in Figure 6. Sample SA35SA11 had a result of 6.4

parts per million (ppm) of arsenic. The OPT instructed the DET not to excavate under Building 2079.

1.2.1.2 SA 35 Area B

The execution of this IRA consisted of the removal of asphalt and the excavation of an area approximately 10′ x 35′ to a depth of 2′ at old monitoring well OLD-35-2 (Figure 3). Soil removed from the site was characterized as non-hazardous and sent to a treatment facility for incineration. Confirmation samples were collected from the sidewalls upon completion of the excavation and tested for TRPH and arsenic. The results of these samples were all less than the RGOs.

1.2.1.3 SA 35 Area C

The execution of this IRA consisted of the extraction of a hydraulic lift, removal of asphalt, and the excavation of an area approximately 20′ x 31′ to a depth of 9′ located north of Building 2078 (Figure 3). Soil removed from the site was characterized as non-hazardous and was sent to a treatment facility for incineration. Confirmation samples were collected from the sidewalls at a depth of 2′ and 8′upon completion of the excavation and tested for TRPH. The results of these samples were all less than the RGOs.

1.2.1.4 SA 35 Area D

The execution of this IRA consisted of the extraction of a hydraulic lift, removal of concrete, and the excavation of an area approximately 23′ x 30′ to a depth of 9′ located on the east side of the interior of Building 2078 (Figure 4). Soil removed from the site was characterized as non-hazardous and was sent to a treatment facility for incineration. Confirmation samples were collected from the sidewalls at a depth of 2′ and 8′upon completion of the excavation and tested for TRPH. The results of these samples were all less than the RGOs.

1.2.1.5 SA 35 Area E

The execution of this IRA consisted of the extraction of three hydraulic lifts, removal of concrete, and the excavation of an area approximately 30′ x 48′ to a depth of 9′ located on the west side of the interior of Building 2078 (Figure 4). Soil removed from the site was characterized as non-hazardous and was sent to a treatment facility for incineration. Confirmation samples were collected from the sidewalls at a depth of 2′ and 8′upon completion of the excavation and tested for TRPH and arsenic. The results of these samples were all less than the RGOs.

1.2.1.6 SA 35 Area F

Cancelled see section 2.3.

1.2.1.7 SA 35 Area G

The execution of this IRA consisted of the removal of asphalt and excavating an area approximately 5′ x 5′ to a depth of 2′ at monitoring well OLD-35-01 (Figure 5). Soil removed from the site was characterized as non-hazardous and was sent to a treatment facility for incineration. Confirmation samples were collected from the sidewalls upon completion of the excavation and tested for arsenic. The results of these samples were all less than the RGOs.

1.2.1.8 SA 35 Area H

The execution of this IRA consisted of the removal of asphalt and excavating an area approximately 10′ x 15′ to a depth of 2′ at sample point 35S007 (Figure 5). Soil removed from the site was characterized as non-hazardous and was sent to a treatment facility for incineration. Confirmation samples were collected from the sidewalls upon completion of the excavation and tested for arsenic. The results of these samples were all less than the RGOs.

1.2.1.9 SA 35 Area I

The execution of this IRA consisted of the removal of asphalt and excavating an area approximately 10′ x 15′ to a depth of 2′ at sample point 35S008 (figure 5). Soil removed from the site was characterized as non-hazardous and was sent to a treatment facility for incineration. Confirmation samples were collected from the sidewalls upon completion of the excavation and tested for arsenic. The results of these samples were all less than the RGOs.

2.0 INTERIM REMEDIAL ACTION EXCECUTION

2.1 ACTIONS PERFORMED BY THE INTERIM REMEDIAL ACTION WORK PLAN

Actions performed are listed below

- Collection of waste characterization samples
- Removal and disposal of asphalt and concrete
- Extraction and removal of hydraulic lifts
- Excavation and disposal of approximately 1,159 tons of soil
- Collection of confirmatory samples along each sidewall for analysis of TRPH and/or arsenic
- Restoration of sites by backfilling, grading to surrounding area, and seeding

2.2 OBSERVATIONS NOTES

2.2.1 Soil Conditions

From ground surface to the bottom of the excavation the soil was dark silty sand.

2.3 PLAN MODIFICATIONS AND JUSTIFICATION

- Informed the OPT that sample SA35SA11 located along the north side of Building 2079 had a result of 6.4 parts per million of arsenic. The OPT instructed the DET not to excavate under Building 2079.

- The OPT instructed the DET not to excavate SA 35 area "F" on April 27, 1999.

3.0 INTERIM REMEDIAL ACTION OUTCOME

3.1 SITE CONDITIONS FOLLOWING COMPLETION OF WORK

Following completion of work, the DET had removed 1,159 tons of TRPH and/or arsenic contaminated soil. The site was backfilled, graded to surrounding area and seeded. Site photographs are included in Appendix D1.

4.0 SAMPLING

4.1 CONFIRMATION SAMPLING Confirmation sampling was performed as follows.

4.1.1 SA 35 Area A

Upon completion of work a confirmation sample was collected on each sidewall and tested for TRPH and arsenic (Figure 6). See appendix D2 for sampling documentation.

4.1.2 SA 35 Area B

Upon completion of work a confirmation sample was collected on each sidewall and tested for TRPH and arsenic (Figure 7). See appendix D2 for sampling documentation.

4.1.3 SA 35 Area C

Upon completion of work confirmation samples were collected from each sidewall at a depth of 2′ and 8′ and tested for TRPH (Figure 8). See appendix D2 for sampling documentation.

4.1.4 SA 35 Area D

Upon completion of work confirmation samples were collected from each sidewall at a depth of 2′ and 8′ and tested for TRPH (Figure 9). See appendix D2 for sampling documentation.

4.1.5 SA 35 Area E

Upon completion of work confirmation samples were collected from each sidewall at a depth of 2′ and 8′ and tested for TRPH and arsenic (Figure 10). See appendix D2 for sampling documentation.

4.1.6 SA 35 Area F

Cancelled see section 2.3.

4.1.7 SA 35 Area G

Upon completion of work a confirmation sample was taken on each sidewall and tested for and arsenic (Figure 11). See appendix D2 for sampling documentation.

4.1.8 SA 35 Area H Upon completion of work a confirmation sample was taken on each sidewall and tested for and arsenic (Figure 12). See appendix D2 for sampling documentation.

4.1.9 SA 35 Area I Upon completion of work a confirmation sample was taken on each sidewall and tested for and arsenic (Figure 13). See appendix D2 for sampling documentation.

4.2 WASTE CHARACTERIZATION SAMPLING Three waste characterization (samples SA35009, SA35013, & SA35015) samples were taken and analyzed for TCLP metals and one waste characterization (sample SPROT0153-1) was taken and analyzed for TCLP lead. See appendix D2 for sampling documentation.

5.0 WASTE GENERATION

5.1 Non-Hazardous Waste

A total of 1,159 tons of non-hazardous TRPH and/or arsenic soil was disposed of to a permitted treatment, storage and disposal facility. Waste Manifests are in appendix D3.

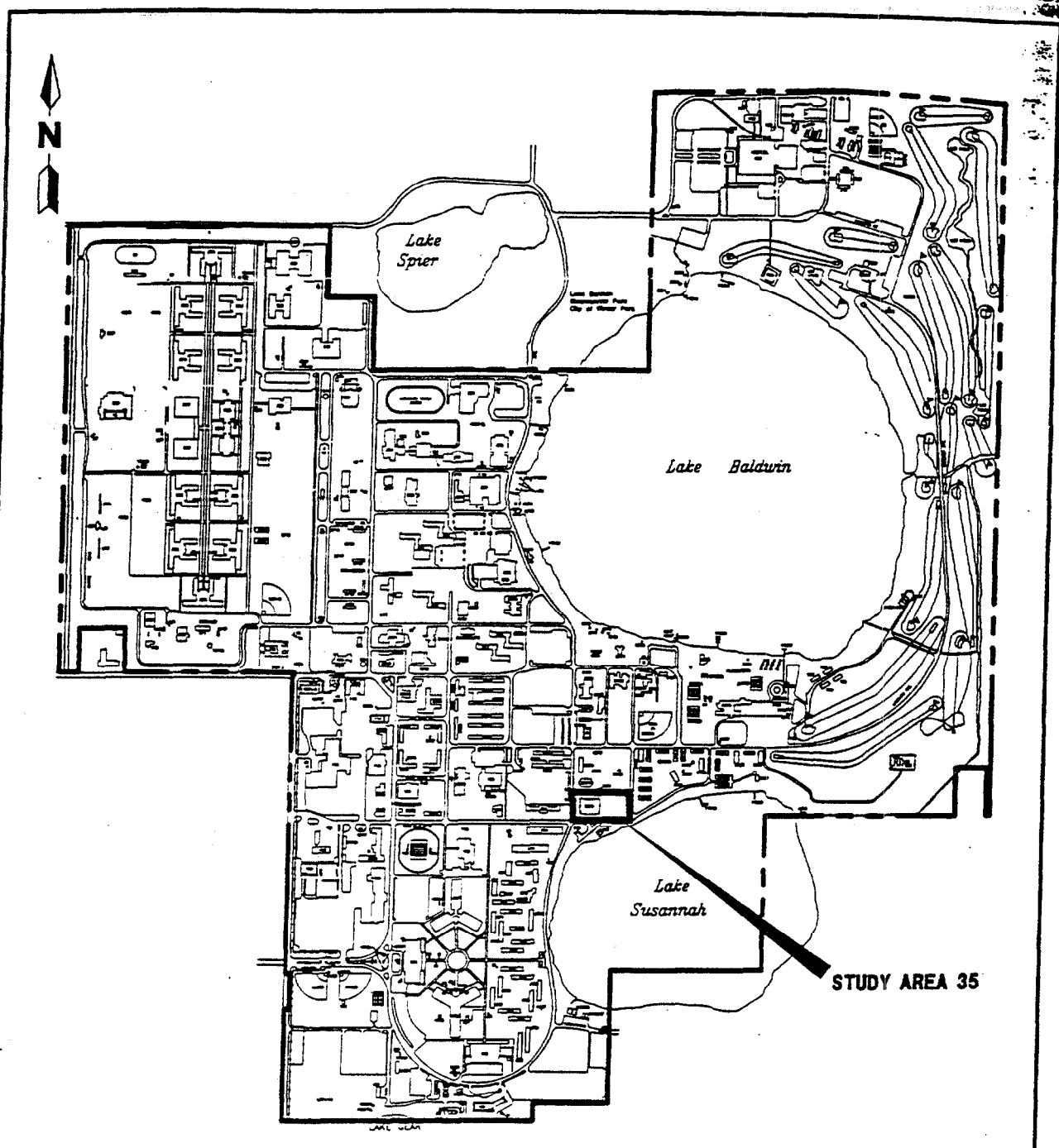


FIGURE 1
LOCATION OF STUDY AREA 35

K:\02530\02530-04\WKP\02530771.DWG, PDP-VC 09/15/98 14:41:06, AutoCAD R14

BASE REALIGNMENT AND CLOSURE WORK PLAN FOR INTERIM REMEDIAL ACTION, STUDY AREA 35

NAVAL TRAINING CENTER ORLANDO, FLORIDA

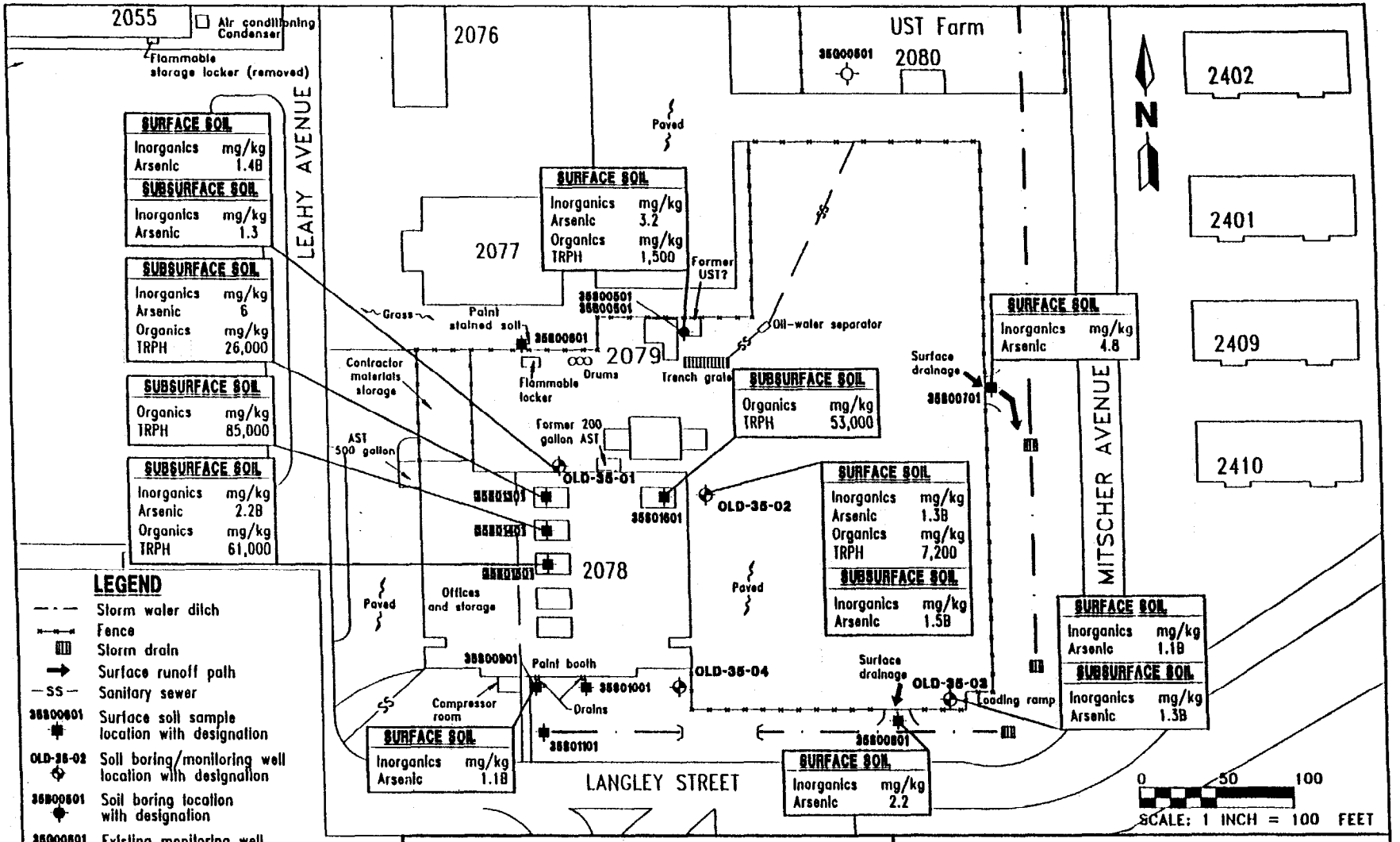


FIGURE 2
SAMPLING LOCATIONS WITH SCREENING CRITERIA EXCEEDANCES, BUILDINGS 2078 AND 2079, VEHICLE MAINTENANCE FACILITY MAIN BASE, GROUP V STUDY AREAS

K:\02530\02530-04\WKP\02530772.DWG, VC-VC 09/15/98 08:23:28, AutoCAD R14

BASE REALIGNMENT AND CLOSURE WORK PLAN FOR INTERIM REMEDIAL ACTION, STUDY AREA 35

NAVAL TRAINING CENTER ORLANDO, FLORIDA

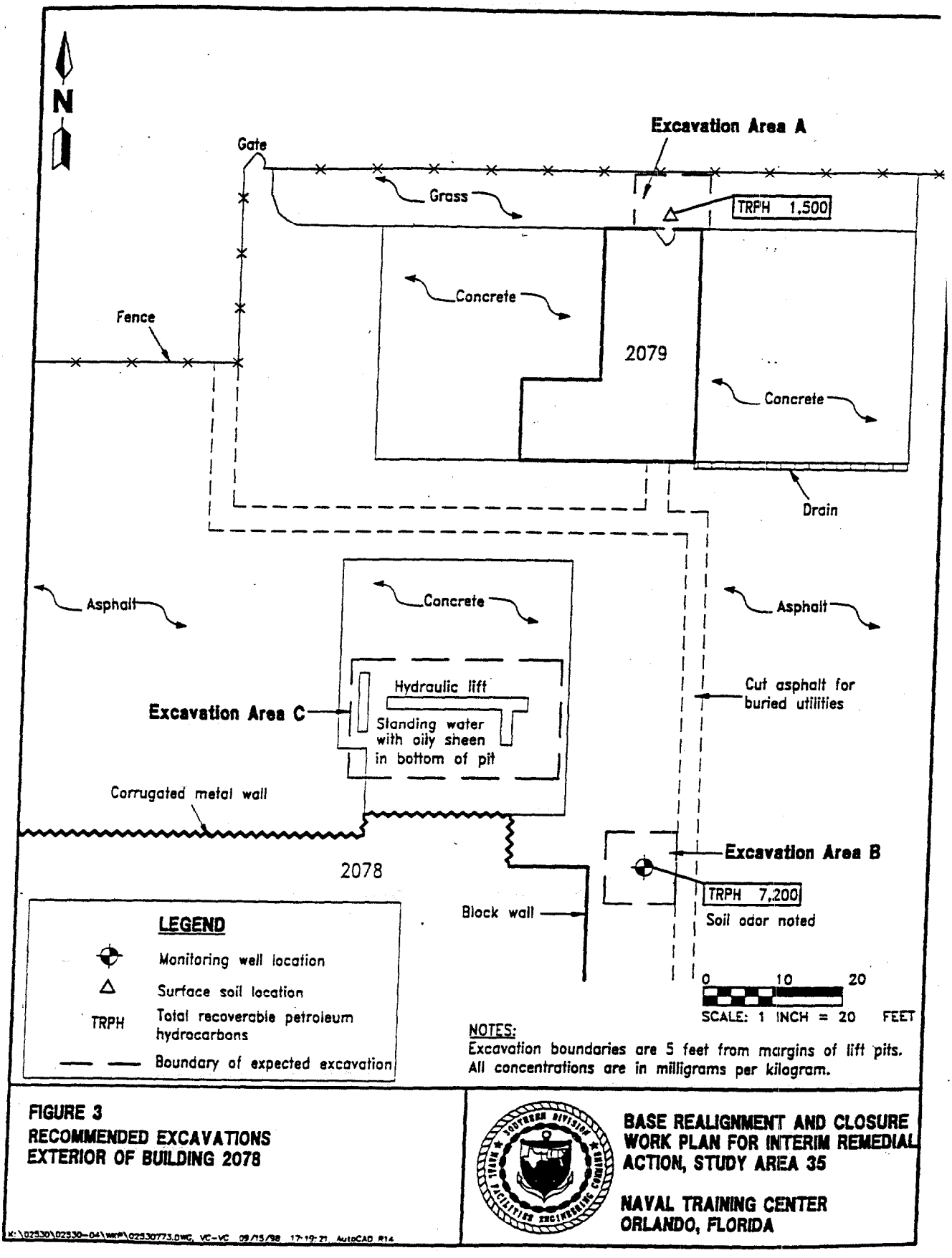


FIGURE 3
RECOMMENDED EXCAVATIONS
EXTERIOR OF BUILDING 2078

K:\02530\02530-04\wkp\022530773.DWG, VC-VC 09/15/98 17:19:21 AutoCAD R14

BASE REALIGNMENT AND CLOSURE WORK PLAN FOR INTERIM REMEDIAL ACTION, STUDY AREA 35

NAVAL TRAINING CENTER ORLANDO, FLORIDA

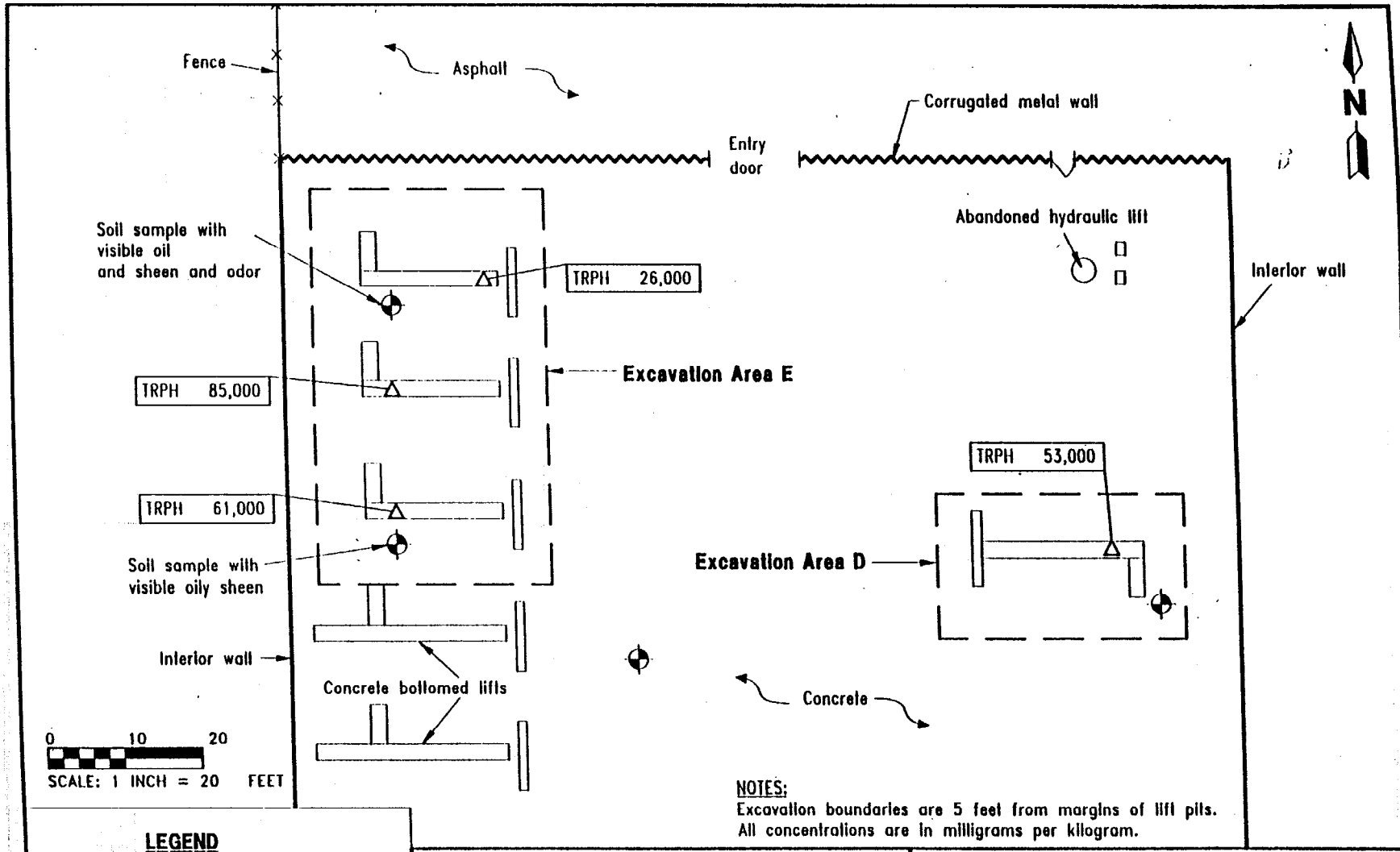


FIGURE 4
RECOMMENDED EXCAVATIONS
INTERIOR OF BUILDING 2078

K:\02530\02530-04\WKP\02530774.DWG, VC-VC 09/16/98 09:18:24, AutoCAD R14

BASE REALIGNMENT AND CLOSURE WORK PLAN FOR INTERIM REMEDIAL ACTION, STUDY AREA 35

NAVAL TRAINING CENTER ORLANDO, FLORIDA

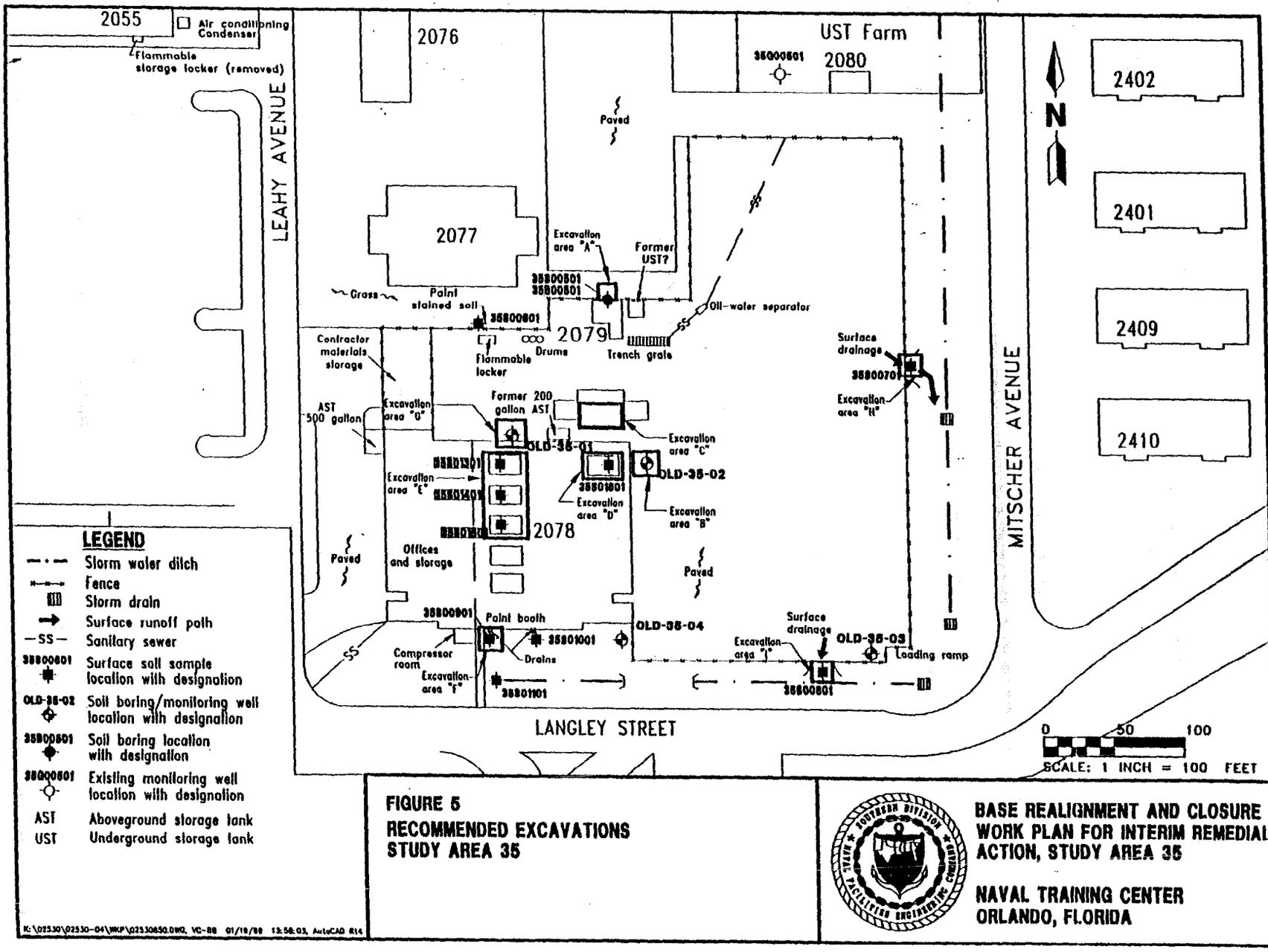
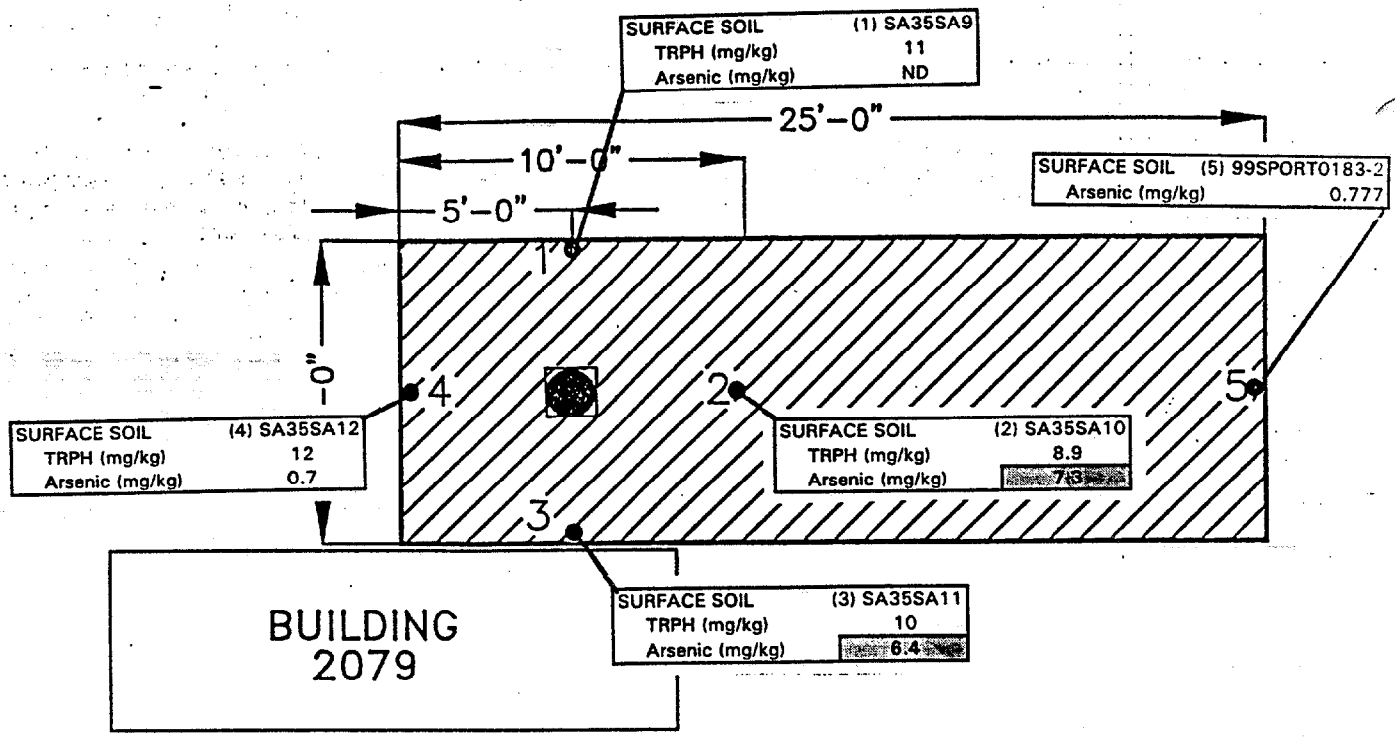


FIGURE 5
RECOMMENDED EXCAVATIONS
STUDY AREA 35

BASE REALIGNMENT AND CLOSURE
WORK PLAN FOR INTERIM REMEDIAL ACTION, STUDY AREA 35

NAVAL TRAINING CENTER
ORLANDO, FLORIDA



NOTE: Exceedances of residential SCTLs are bolded and shaded.

LEGEND

1 ●	CONFIRMATORY SAMPLE ID SA35SA9
2 ●	CONFIRMATORY SAMPLE ID SA35SA10
3 ●	CONFIRMATORY SAMPLE ID SA35SA11
4 ●	CONFIRMATORY SAMPLE ID SA35SA12
5 ●	CONFIRMATORY SAMPLE ID 99SPORT0183-2
	SAMPLE POINT 35S005
	EXCAVATED TO 2 FEET DEEP

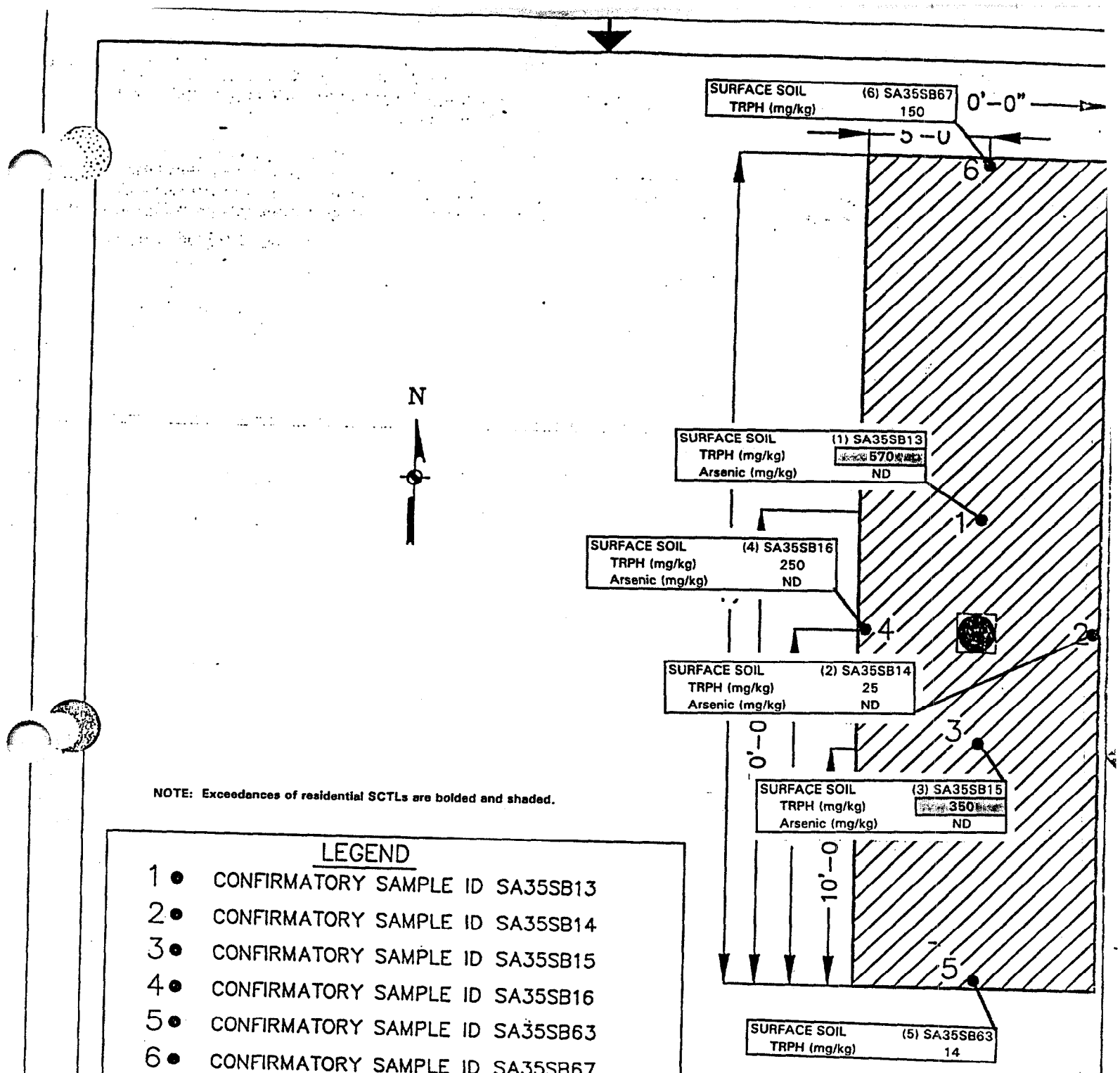
N

ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE – BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 6
NAVAL TRAINING CENTER ORLANDO SA 35 AREA A
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS

DATE:	PREPARED BY:	REV
13 AUGUST 1999	A. J. MOYER	–

SCALE: NONE SHEET: –



NOTE: Exceedances of residential SCTLs are bolded and shaded.

LEGEND

1 ● CONFIRMATORY SAMPLE ID SA35SB13
2 ● CONFIRMATORY SAMPLE ID SA35SB14
3 ● CONFIRMATORY SAMPLE ID SA35SB15
4 ● CONFIRMATORY SAMPLE ID SA35SB16
5 ● CONFIRMATORY SAMPLE ID SA35SB63
6 ● CONFIRMATORY SAMPLE ID SA35SB67

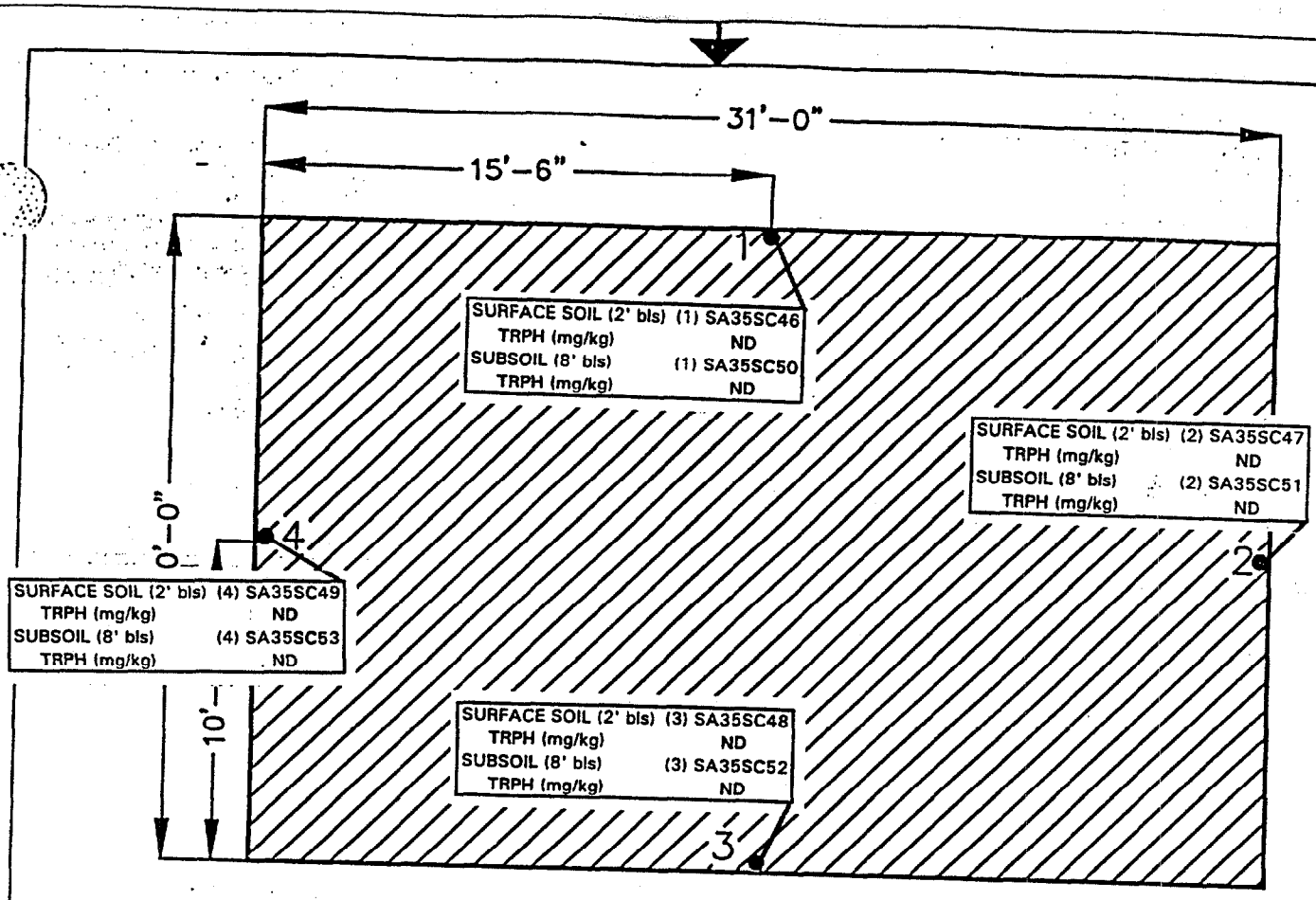
MONITORING WELL OLD-35-2

EXCAVATED TO 2 FEET DEEP

ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE – BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 7
NAVAL TRAINING CENTER ORLANDO SA 35 AREA B
EXCAVATION BOUNDARIES AND CONFIRMATORY SAMPLE LOCATIONS

DATE:	PREPARED BY:	REV
15 AUGUST 1999	A. J. MOYER	–
SCALE: NONE		SHEET: –



LEGEND

1 ● CONFIRMATORY SAMPLE ID SA35SC46 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SA35SC50 DEPTH OF 8'

2 ● CONFIRMATORY SAMPLE ID SA35SC47 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SA35SC51 DEPTH OF 8'

3 ● CONFIRMATORY SAMPLE ID SA35SC48 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SA35SC52 DEPTH OF 8'

4 ● CONFIRMATORY SAMPLE ID SA35SC49 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SA35SC53 DEPTH OF 8'

NOTE: Exceedances of residential SCTLs are bolded and shaded.
(There were no exceedances in the confirmation samples).

EXCAVATED TO 9 FEET DEEP

N

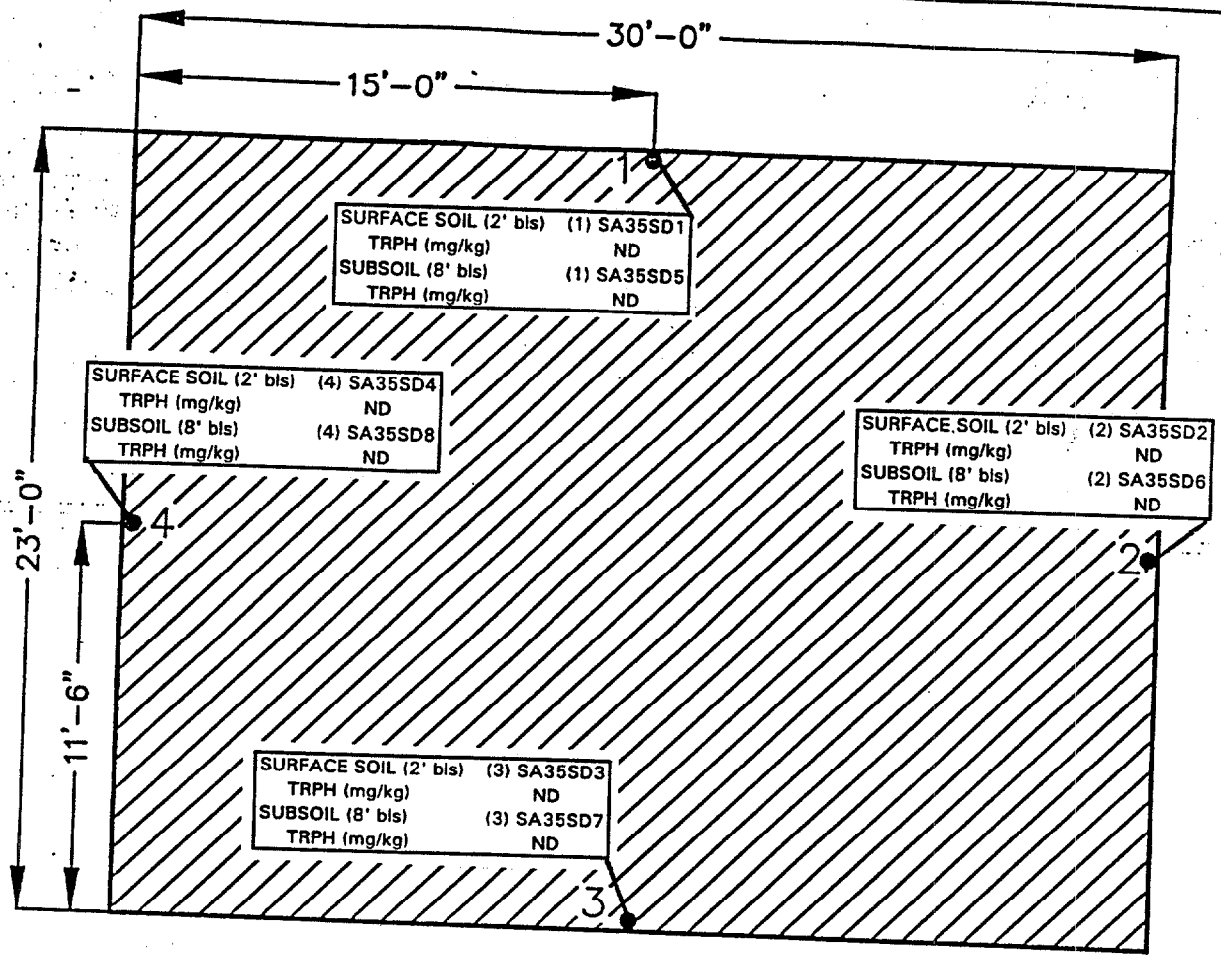
ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE – BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2105

FIGURE 8
NAVAL TRAINING CENTER ORLANDO SA 35 AREA C
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS

DATE:	PREPARED BY:	REV
15 AUGUST 1999	A. J. MOYER	–

SCALE: NONE

SHEET: –



N

LEGEND

1 ● CONFIRMATORY SAMPLE ID SA35SD1 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SA35SD5 DEPTH OF 8'

2 ● CONFIRMATORY SAMPLE ID SA35SD2 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SA35SD6 DEPTH OF 8'

3 ● CONFIRMATORY SAMPLE ID SA35SD3 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SA35SD7 DEPTH OF 8'

4 ● CONFIRMATORY SAMPLE ID SA35SD4 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SA35SD8 DEPTH OF 8'

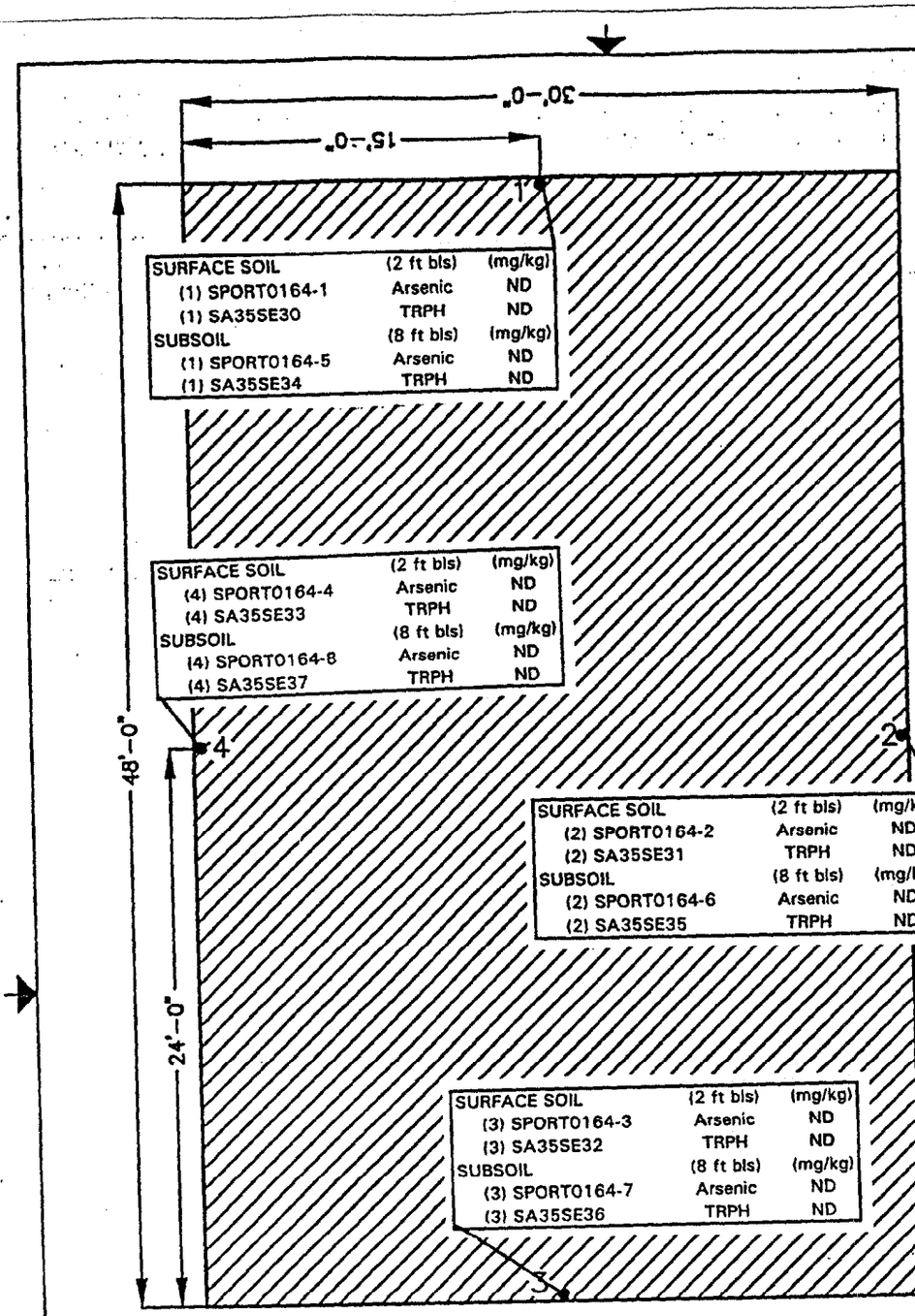
EXCAVATED TO 9 FEET DEEP

NOTE: Exceedances of residential SCTLs are bolded and shaded.
(There were no exceedances in the confirmation samples).

ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE – BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 9
NAVAL TRAINING CENTER ORLANDO SA 35 AREA D
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS

DATE:	PREPARED BY:	REV
15 AUGUST 1999	A. J. MOYER	–
SCALE: NONE		SHEET: –



ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE – BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29406-2196

FIGURE 10
NAVAL TRAINING CENTER ORLANDO SA 35 AREA E
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS

KEY -
PREPARED BY: A. J. MOYER
DATE: 15 AUGUST 1999
SCALE: -

NOTE: Exceedances of residential SCTLs are bolded and shaded. (There were no exceedances in the confirmation samples).

LEGEND

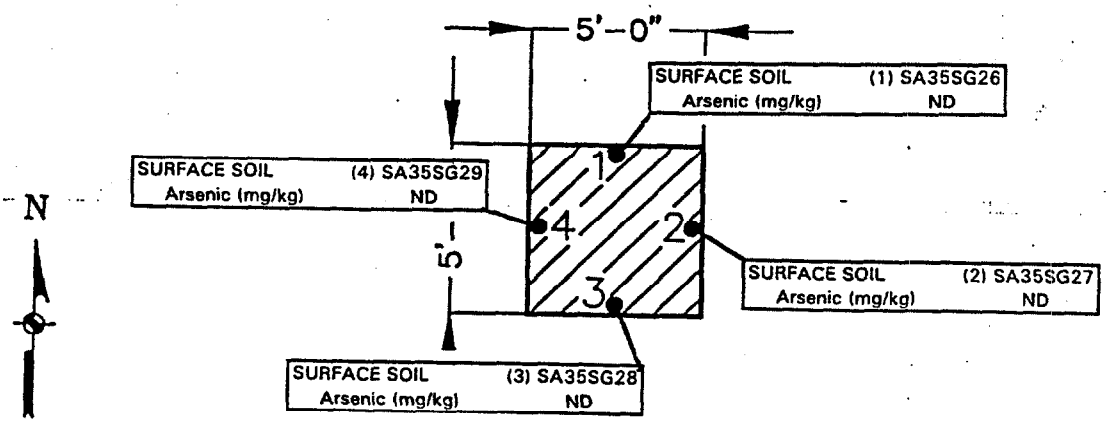
1 • CONFIRMATORY SAMPLE ID SPORT0164-1 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SA35SE30 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SPORT0164-5 DEPTH OF 8'
CONFIRMATORY SAMPLE ID SA35SE34 DEPTH OF 8'

2 • CONFIRMATORY SAMPLE ID SPORT0164-2 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SA35SE31 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SPORT0164-6 DEPTH OF 8'
CONFIRMATORY SAMPLE ID SA35SE35 DEPTH OF 8'

3 • CONFIRMATORY SAMPLE ID SPORT0164-3 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SA35SE32 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SPORT0164-7 DEPTH OF 8'
CONFIRMATORY SAMPLE ID SA35SE36 DEPTH OF 8'

4 • CONFIRMATORY SAMPLE ID SPORT0164-4 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SA35SE33 DEPTH OF 2'
CONFIRMATORY SAMPLE ID SPORT0164-8 DEPTH OF 8'
CONFIRMATORY SAMPLE ID SA35SE37 DEPTH OF 8'

EXCAVATED TO 9 FEET DEEP



LEGEND

1 ● CONFIRMATORY SAMPLE ID SA35SG26

2 ● CONFIRMATORY SAMPLE ID SA35SG27

3 ● CONFIRMATORY SAMPLE ID SA35SG28

4 ● CONFIRMATORY SAMPLE ID SA35SG29

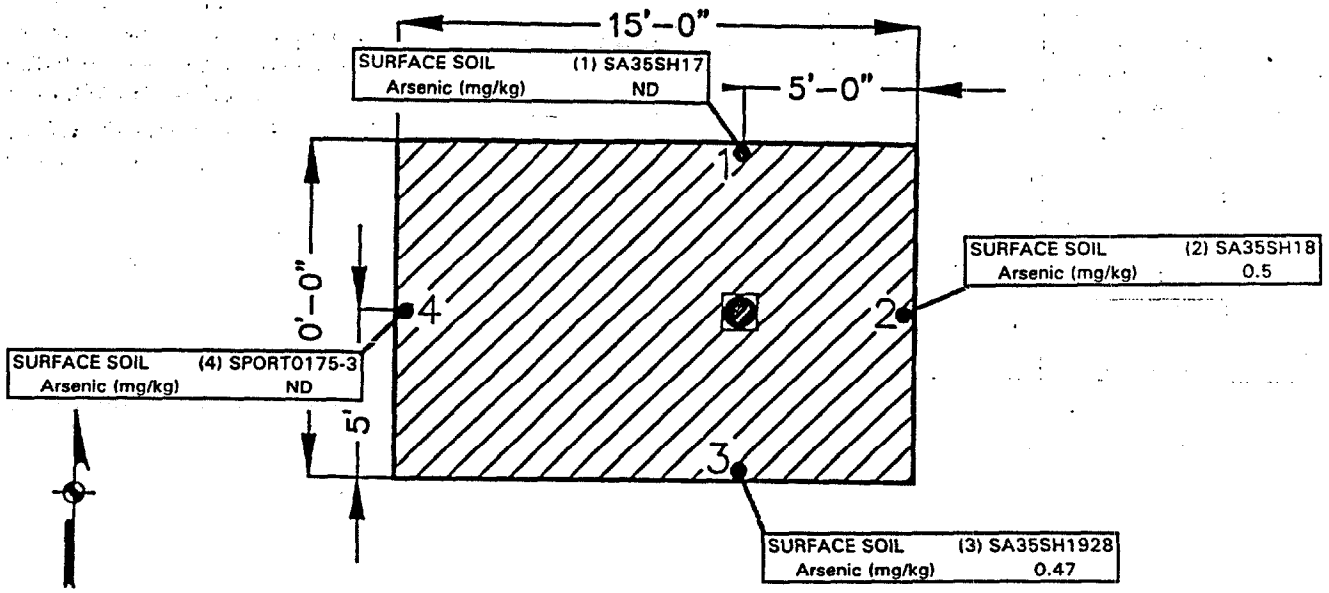
NOTE: Exceedances of residential SCTLs are bolded and shaded.
(There were no exceedances in the confirmation samples).

EXCAVATED TO 2 FEET DEEP

ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE – BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 11
NAVAL TRAINING CENTER ORLANDO SA 35 AREA G
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS

DATE:	PREPARED BY:	REV
15 AUGUST 1999	A. J. MOYER	–
SCALE: NONE		SHEET: –



NOTE: Exceedances of residential SCTLs are bolded and shaded.
(There were no exceedances in the confirmation samples).

LEGEND

1 ● CONFIRMATORY SAMPLE ID SA35SH17

2 ● CONFIRMATORY SAMPLE ID SA35SH18

3 ● CONFIRMATORY SAMPLE ID SA35SH19

4 ● CONFIRMATORY SAMPLE ID SPORT0175-3

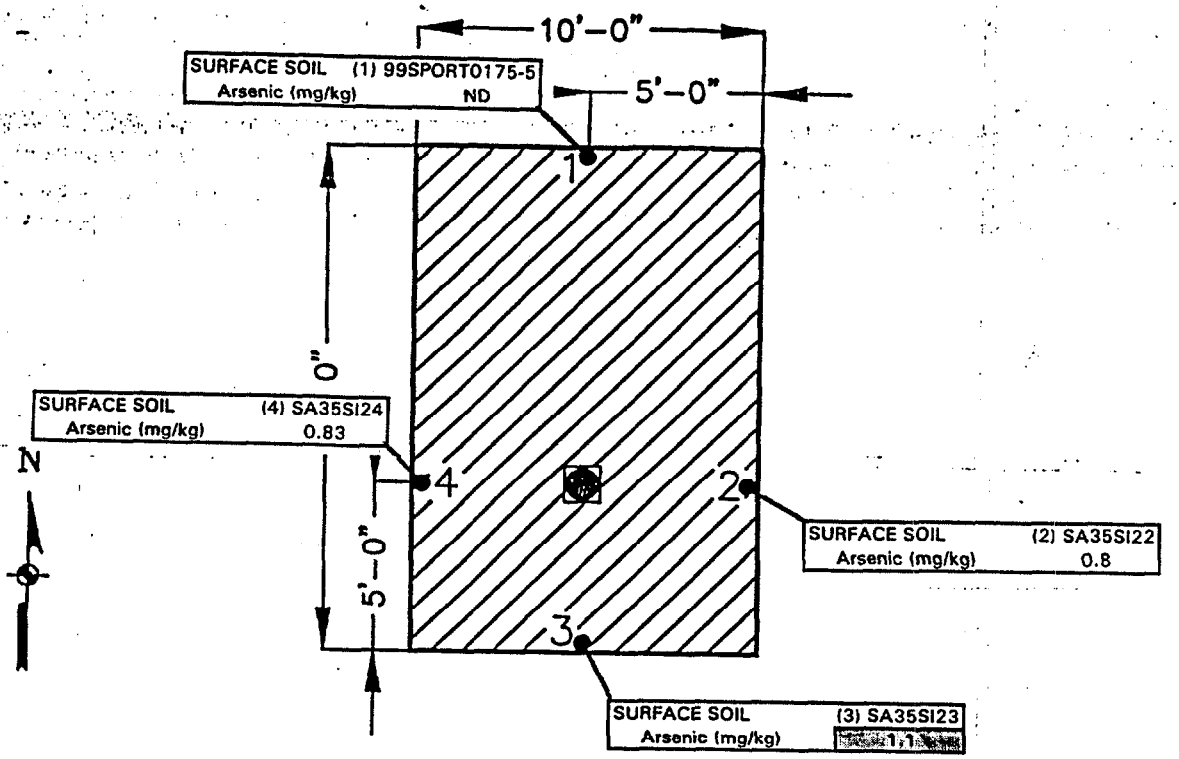
SAMPLE POINT 35S007

EXCAVATED TO 2 FEET DEEP

ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE – BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 12
NAVAL TRAINING CENTER ORLANDO SA 35 AREA H
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS

DATE:	PREPARED BY:	REV
15 AUGUST 1999	A. J. MOYER	–
SCALE: NONE		SHEET: –



LEGEND

1 ● CONFIRMATORY SAMPLE ID 99SPORT0175-5

2 ● CONFIRMATORY SAMPLE ID SA35SI22

3 ● CONFIRMATORY SAMPLE ID SA35SI23

4 ● CONFIRMATORY SAMPLE ID SA35SI24

SAMPLE POINT 35S008

EXCAVATED TO 2 FEET DEEP

NOTE: Exceedances of residential SCTLs are bolded and shaded.

ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE – BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 13
NAVAL TRAINING CENTER ORLANDO SA 35 AREA I
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS

DATE:	PREPARED BY:	REV
15 AUGUST 1999	A. J. MOYER	–
SCALE: NONE		SHEET: –

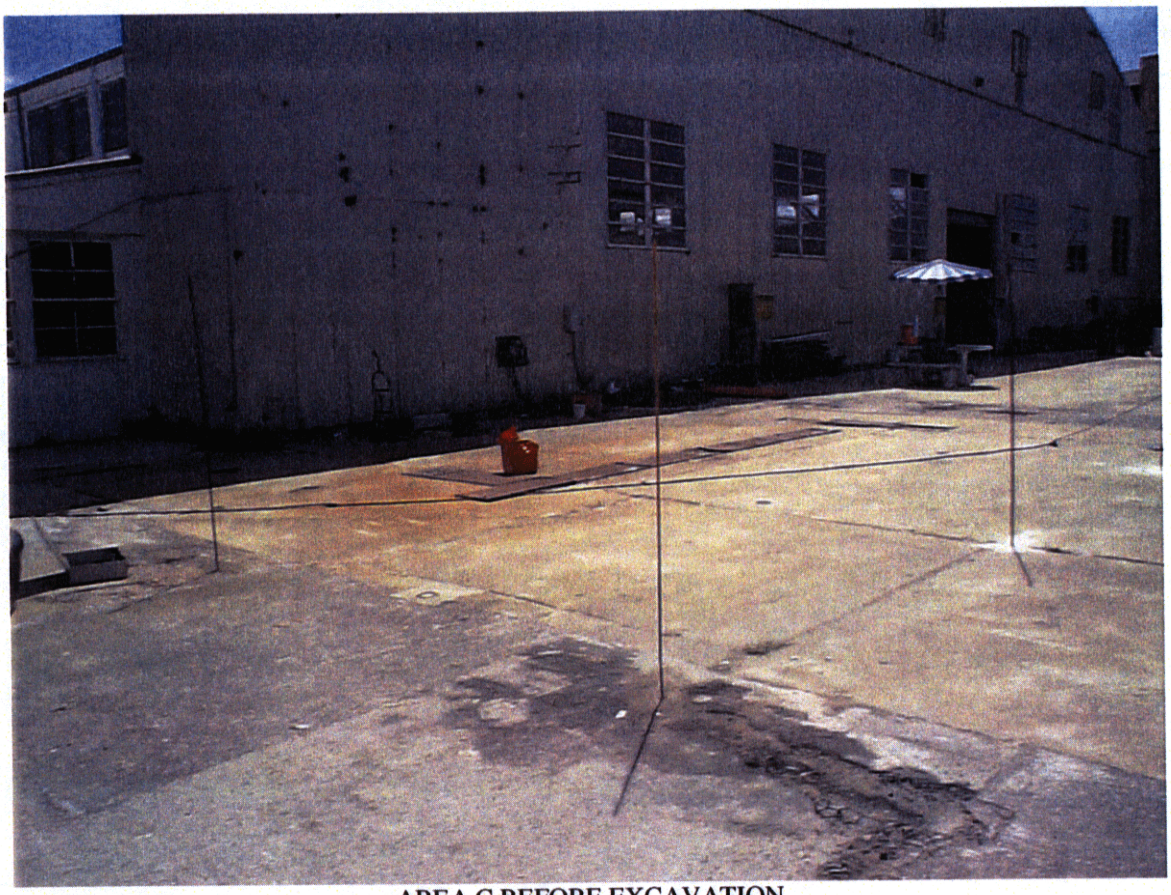
AREA A DURING EXCAVATION

AREA A AFTER BACKFILLING

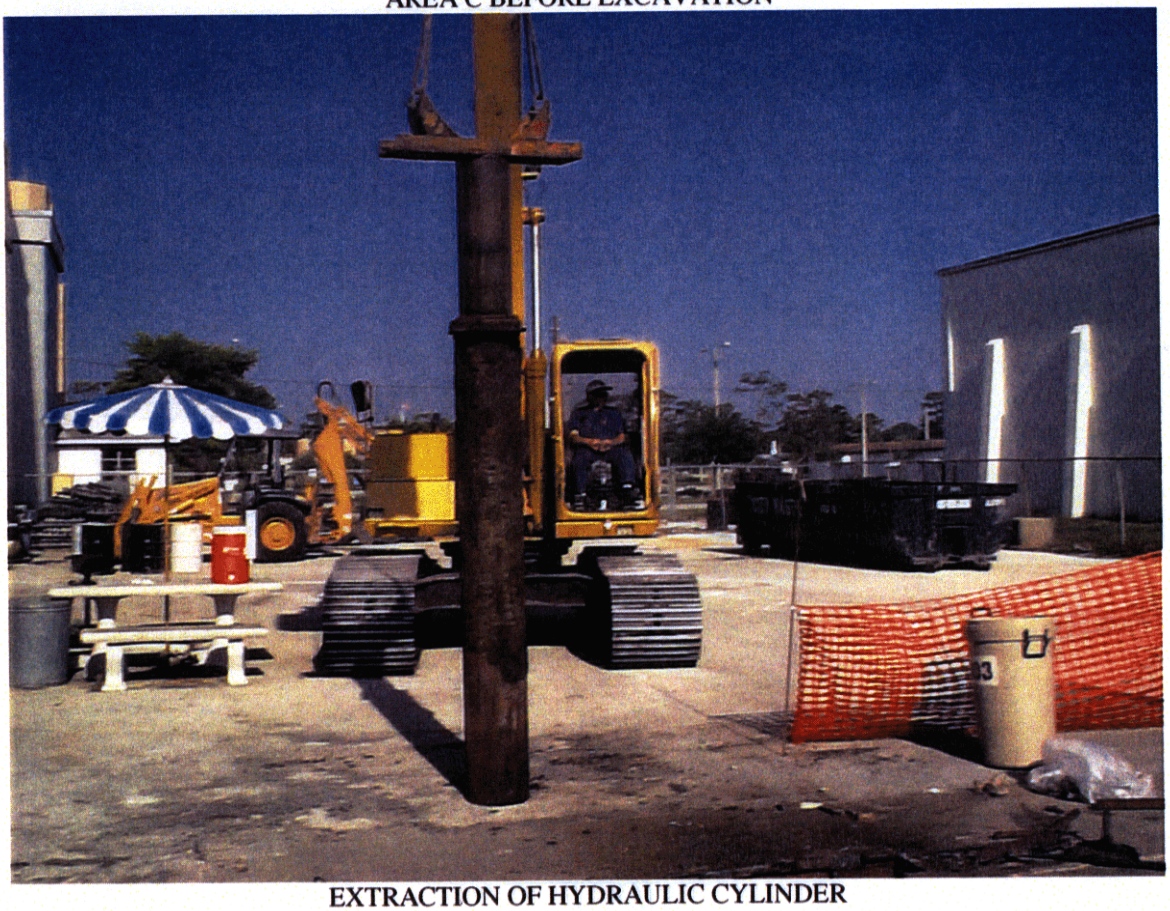
APPENDIX D1-1

AREA A AFTER SEEDING

AREA B DURING EXCAVATION

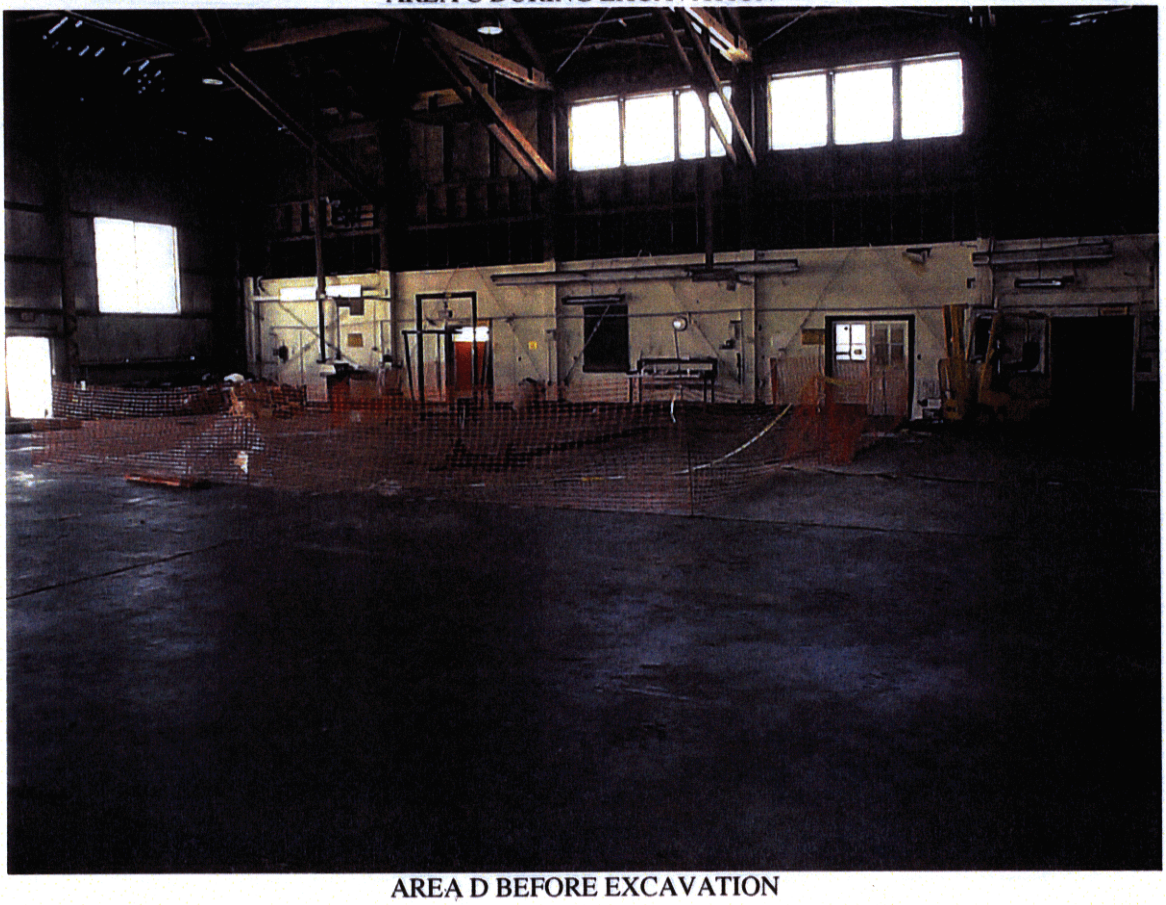


AREA C BEFORE EXCAVATION

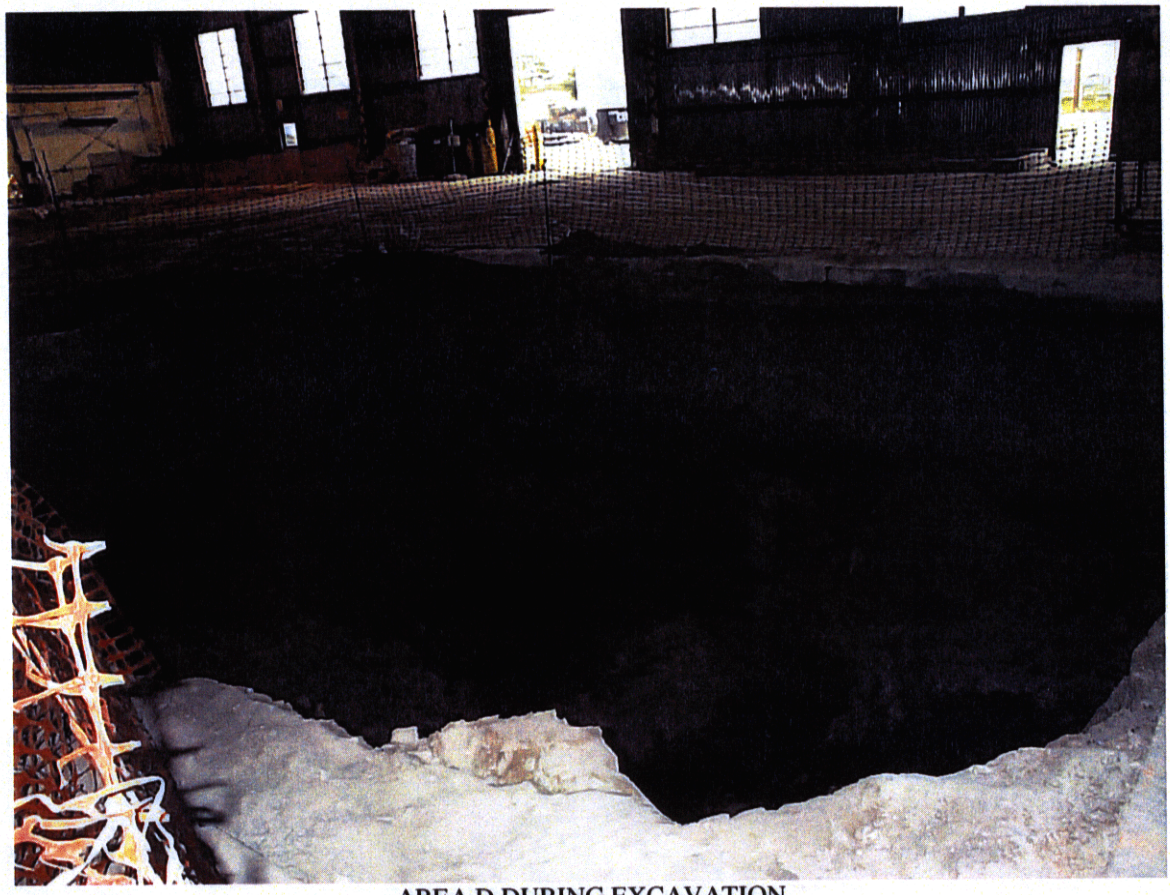


EXTRACTION OF HYDRAULIC CYLINDER

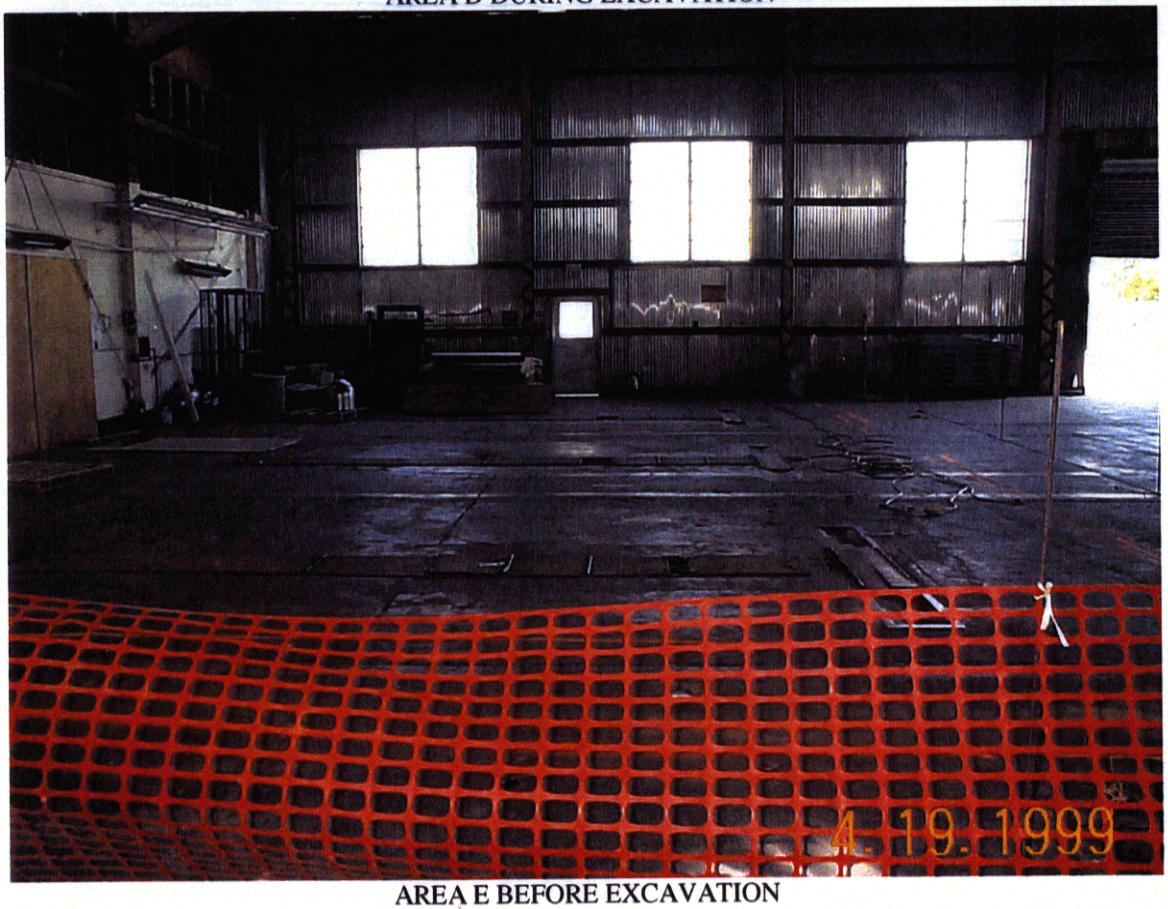
AREA C DURING EXCAVATION



AREA D BEFORE EXCAVATION

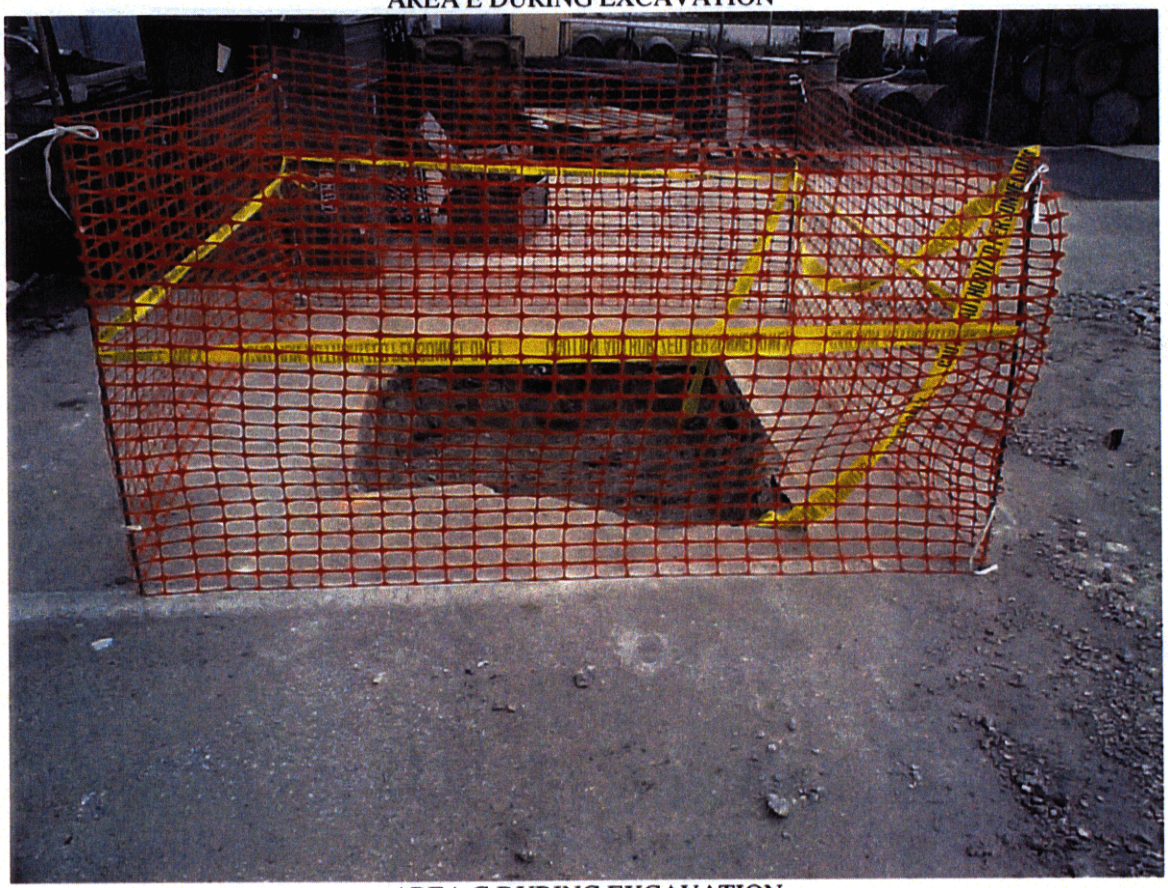


AREA D DURING EXCAVATION



AREA E BEFORE EXCAVATION

AREA E DURING EXCAVATION



AREA G DURING EXCAVATION

AREA H DURING EXCAVATION

AREA H AFTER BACKFILLING

AREA H AFTER SEEDING

AREA I DURING EXCAVATION

AREA I AFTER BACKFILLING

AREA I AFTER SEEDING

CONFIRMATION SAMPLES

Environmental Conservation Laboratories
10207 General Drive
Orlando, Florida 32824-8529
)7 / 826-5314
ax 407 / 850-6945
www.encolabs.com

ENCO Laboratories

DHRS Certification No. E83182

Client:	Environmental Detachment Charleston	Report #:	OR6459
		Date Submitted:	3-May-99
		Date Reported:	6-May-99
Address:	1899 N. Hobson Ave	Project #:	SA35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-1	SA35SA9	4/30/99 14:15	FLPRO	Hydrocarbons (C8-C40)	11			mg/Kg	3.5	1.8
OR6459-1	SA35SA9	4/30/99 14:15	FLPRO	o-Terphenyl	123			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-1	SA35SA9	4/30/99 14:15	7060	Arsenic	0.4	U		mg/Kg	0.4	0.05

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-1	SA35SA9	4/30/99 14:15	SM2540G	Percent Solids	94			%		

U = Compound was analyzed for but not deteched to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6459
		Date Submitted:	3-May-99
		Date Reported:	6-May-99
Address:	1899 N. Hobson Ave	Project #:	SA35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-2	SA35SA10	4/30/99 14:20	FLPRO	Hydrocarbons (C8-C40)	8.9			mg/Kg	3.5	1.8
OR6459-2	SA35SA10	4/30/99 14:20	FLPRO	o-Terphenyl	82			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-2	SA35SA10	4/30/99 14:20	7060	Arsenic	7.3			mg/Kg	0.4	0.05

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-2	SA35SA10	4/30/99 14:20	SM2540G	Percent Solids	93			%		

Client:	Environmental Detachment Charleston	Report #:	OR6459
		Date Submitted:	3-May-99
		Date Reported:	6-May-99
Address:	1899 N. Hobson Ave	Project #:	SA35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-3	SA35SA11	4/30/99 14:26	FLPRO	Hydrocarbons (C8-C40)	10			mg/Kg	3.5	1.8
OR6459-3	SA35SA11	4/30/99 14:26	FLPRO	o-Terphenyl	122			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-3	SA35SA11	4/30/99 14:26	7060	Arsenic	6.4			mg/Kg	0.4	0.05

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-3	SA35SA11	4/30/99 14:26	SM2540G	Percent Solids	95			%		

Client:	Environmental Detachment Charleston	Report #:	OR6459
		Date Submitted:	3-May-99
		Date Reported:	6-May-99
Address:	1899 N. Hobson Ave	Project #:	SA35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-4	SA35SA12	4/30/99 14:35	FLPRO	Hydrocarbons (C8-C40)	12			mg/Kg	3.4	1.8
OR6459-4	SA35SA12	4/30/99 14:35	FLPRO	o-Terphenyl	127			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-4	SA35SA12	4/30/99 14:35	7060	Arsenic	0.7			mg/Kg	0.4	0.05

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-4	SA35SA12	4/30/99 14:35	SM2540G	Percent Solids	96			%		

ENCO

ENVIRONM[ENT]AL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

C[O]RF #

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
NTC Orlando	SA35	

PROJECT LOC. (State): FL.
SAMPLER(s) NAME: Rusty Cope
PHONE: 496-2173
FAX:
CLIENT NAME: ENV DET CHASN
CLIENT PROJECT MANAGER: A. moyer
CLIENT ADDRESS (CITY, STATE, ZIP): 1899 N Hobson Ave, N. Chas, SC 29405

PAGE ___ OF ___

☐ STANDARD REPORT DELIVERY
☑ EXPEDITED REPORT DELIVERY (surcharge)

Date Due: 5/5/99 PM

MATRIX TYPE / REQUIRED ANALYSIS / NUMBER OF CONTAINERS SUBMITTED

STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	FL TRPH	Arsenic (ICP)	REMARKS
1	4/30/99	1415	X		SA35SA9 ✓					X					1	X	
2	4/30/99	1420	X		SA35SA10 ✓					X					1	X	
3	4/30/99	1426	X		SA35 SA 11 ✓					X					1	X	
4	4/30/99	1435	X		SA35 SA12 ✓					X					1	X	
5	4/30/99	1450	X		SA35SB 13 ✓					X					1	X	
6	4/30/99	1458	X		SA35SB 14 ✓					X					1	X	
7	4/30/99	1505	X		SA35SB 15 ✓					X					1	X	
8	4/30/99	1510	X		SA35SB 16 ✓					X					1	X	
9	5/1/99	1001	X		SA35SH 17 ✓					X						1	
10	5/1/99	1010	X		SA35 SH 18 ✓					X						1	
11	5/1/99	1018	X		SA35SH 19 ✓					X						1	
12	5/1/99	1027	X		SA35SH 20 ✓					X						1	
13	5/1/99	1045	X		SA35 SI 21 ✓					X						1	
14	5/1/99	1053	X		SA35 SI 22 ✓					X						1	

SAMPLE KIT PREPARED BY: ☐ JACKSONVILLE ☐ ORLANDO — DATE — TIME

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
RW Cope	5/3/99	1415	James W. Gregory	5/3/99	1415

RELINQUISHED BY: (SIGNATURE) — DATE — TIME — RECEIVED BY: (SIGNATURE) — DATE — TIME — RELINQUISHED BY: (SIGNATURE) — DATE — TIME

RECEIVED BY (SIGNATURE) — DATE — TIME — RELINQUISHED BY: (SIGNATURE) — DATE — TIME — RECEIVED BY: (SIGNATURE) — DATE — TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS
K. Armstrong ☐ Jacksonville ☐ Orlando	5-3-99	3:30	☐ YES ☐ NO	OR6457	

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10587
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 19, 1999

Sample ID	: 99SPORT0183-2
Lab ID	: 9905532-02
Matrix	: Soil
Date Collected	: 05/14/99
Date Received	: 05/17/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic		777	441	485	ug/kg	2.0	MBL	05/18/99	0945	149233	
The following prep procedures were performed:											
TRACE							FGD	05/17/99	1900	149233	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

ewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905532-02

NPL0001471

CHAIN OF CUSTODY RECORD

9905532%

General Engineering Laboratories, Inc.
2040 Savage Road
Charleston, South Carolina 29407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Page 1 of 1

Client Name/Facility Name: McCoy Orlando

Collected by/Company: Env Det Chas

	SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS
01	99Sport0183-1	5/14/99	1115		X	X		1
02	99Sport0183-2	5/14/99	1515		X	X		1
03	99Sport0183-3	5/14/99	1610		X	X		1

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	PAH 8270	Arsenic TCLP
															X	
																X
																X

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

40300

Remarks

01	SA 17 SO 31 432 SA 17 SO 33 @ 40' , 1
02	99Sport0175-142 SA 35 SA 64 @ 15' , 2
03	99Sport0173-16 SA 8 SO 546 @ 5' , 2

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
K W Pope	5/14/99	1745					
Relinquished by:	Date:	Time:	Received by lab by:	Date:	Time:	Remarks:	
			P. Power	5/17/99	08:30		

White = s collector Yellow = file Pink = with report

Client:	Environmental Detachment Charleston	Report #:	OR6459
		Date Submitted:	3-May-99
		Date Reported:	6-May-99
Address:	1899 N. Hobson Ave	Project #:	SA35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-5	SA35SB13	4/30/99 14:50	FLPRO	Hydrocarbons (C8-C40)	570		50	mg/Kg	170	88
OR6459-5	SA35SB13	4/30/99 14:50	FLPRO	o-Terphenyl	118		50	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-5	SA35SB13	4/30/99 14:50	7060	Arsenic	0.4	U		mg/Kg	0.4	0.05

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-5	SA35SB13	4/30/99 14:50	SM2540G	Percent Solids	97			%		

U = Compound was analyzed for but not deteched to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6459
		Date Submitted:	3-May-99
		Date Reported:	6-May-99
Address:	1899 N. Hobson Ave	Project #:	SA35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-6	SA35SB14	4/30/99 14:58	FLPRO	Hydrocarbons (C8-C40)	25			mg/Kg	3.4	1.8
OR6459-6	SA35SB14	4/30/99 14:58	FLPRO	o-Terphenyl	120			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-6	SA35SB14	4/30/99 14:58	7060	Arsenic	0.4	U		mg/Kg	0.4	0.05

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-6	SA35SB14	4/30/99 14:58	SM2540G	Percent Solids	97			%		

U = Compound was analyzed for but not deteched to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6459
		Date Submitted:	3-May-99
		Date Reported:	6-May-99
Address:	1899 N. Hobson Ave	Project #:	SA35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-7	SA35SB15	4/30/99 15:05	FLPRO	Hydrocarbons (C8-C40)	350		50	mg/Kg	170	88
OR6459-7	SA35SB15	4/30/99 15:05	FLPRO	o-Terphenyl	118		50	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-7	SA35SB15	4/30/99 15:05	7060	Arsenic	0.4	U		mg/Kg	0.4	0.05

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-7	SA35SB15	4/30/99 15:05	SM2540G	Percent Solids	97			%		

U = Compound was analyzed for but not deteched to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6459
		Date Submitted:	3-May-99
		Date Reported:	6-May-99
Address:	1899 N. Hobson Ave	Project #:	SA35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-8	SA35SB16	4/30/99 15:10	FLPRO	Hydrocarbons (C8-C40)	250	I	50	mg/Kg	170	89
OR6459-8	SA35SB16	4/30/99 15:10	FLPRO	o-Terphenyl	130		50	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-8	SA35SB16	4/30/99 15:10	7060	Arsenic	0.4	U		mg/Kg	0.4	0.05

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-8	SA35SB16	4/30/99 15:10	SM2540G	Percent Solids	95			%		

U = Compound was analyzed for but not deteched to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

QF RF # _____

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
NTC Orlando	SA 35	

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE / FAX
FL.	Rusty Cope	PHONE 496-2173

CLIENT NAME	CLIENT PROJECT MANAGER
ENV DET CHASN	A. moyer

CLIENT ADDRESS (CITY, STATE, ZIP): 1899 N Hobson Ave, N. Chas, SC 29405

MATRIX TYPE: SURFACE WATER; GROUND WATER; WASTEWATER; DRINKING WATER; SOIL/SOLID/SEDIMENT; NONAQUEOUS LIQUID (OIL, SOLVENT, ETC.); AIR; SLUDGE; OTHER

REQUIRED ANALYSIS: FL TRPH; Arsenic (TCLP)

PAGE ____ OF ____

☐ STANDARD REPORT DELIVERY

☑ EXPEDITED REPORT DELIVERY (surcharge)

Date Due: 5/5/99 PM

SAMPLE STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	SOIL/SOLID/SEDIMENT	NUMBER OF CONTAINERS SUBMITTED: FL TRPH	NUMBER OF CONTAINERS SUBMITTED: Arsenic (TCLP)	REMARKS
1	4/30/99	1415	X		SA35SA9 ✓	X	1	X	
2	4/30/99	1420	X		SA35SA10 ✓	X	1	X	
3	4/30/99	1426	X		SA35 SA 11 ✓	X	1	X	
4	4/30/99	1435	X		SA35 SA 12 ✓	X	1	X	
5	4/30/99	1450	X		SA 35SB 13 ✓	X	1	X	
6	4/30/99	1458	X		SA 35SB 14 ✓	X	1	X	
7	4/30/99	1505	X		SA 35SB 15 ✓	X	1	X	
8	4/30/99	1510	X		SA 35SB 16 ✓	X	1	X	
9	5/1/99	1001	X		SA35SH 17 ✓	X	1		
10	5/1/99	1010	X		SA35 SH 18 ✓	X	1		
11	5/1/99	1018	X		SA35 SH 19 ✓	X	1		
12	5/1/99	1027	X		SA35 SH 20 ✓	X	1		
13	5/1/99	1045	X		SA35 SI 21 ✓	X	1		
14	5/1/99	1053	X		SA35 SI 22 ✓	X	1		

SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
			RW Cope	5/3/99	1415	Samuel W. Dregory	5/3/99	1415
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS
K. Horn ☐ Jackson ☐ Orlando	5-3-99	3:30	☐ YES ☐ NO	0R6 7	

Client:	Environmental Detachment Charleston	Report #:	OR6568
		Date Submitted:	12-May-99
		Date Reported:	19-May-99
Address:	1899 N. Hobson Ave	Project #:	STUDT AREA-35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6568-4	SA35SB63	5/11/99 10:35	FLPRO	Hydrocarbons (C8-C40)	14	U	2	mg/Kg	14	6.9
OR6568-4	SA35SB63	5/11/99 10:35	FLPRO	o-Terphenyl	117		2	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6568-4	SA35SB63	5/11/99 10:35	SM2540G	Percent Solids	96			%		

NOTE: Analyte values are reproted on a dry weight basis.

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

Study Area-35

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
NTC ORLANDO	SA 35	

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE	FAX
FL	Rusty Cope	496-2173	

CLIENT NAME	CLIENT PROJECT MANAGER
Env Det Chas	A.J. Mayer

CLIENT ADDRESS (CITY, STATE, ZIP): 1899 N Hobson Ave, N. Charleston, S.C. 29405

PAGE ____ OF ____

☐ STANDARD REPORT DELIVERY

☐ EXPEDITED REPORT DELIVERY (surcharge)

Date Due: 5-14-99

SAMPLE						MATRIX TYPE									REQUIRED ANALYSIS									
STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	FLTRPH									REMARKS
						NUMBER OF CONTAINERS SUBMITTED																		
1	5/11/99	1022	X		SA35SB60					X					1									Extend Areas
2	5/11/99	1026	X		SA35SB61					X					1									of SA-35-B
3	5/11/99	1030	X		SA35SB62					X					1									5' + 10' North
4	5/11/99	1035	X		SA35SB63					X					1									and South
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								

SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
RELINQUISHED BY: (SIGNATURE) R W Cope	5/12/99	9 30	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE 5 12 99	TIME 9 30a	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS
☐ Jackson. ☒ Orlando	5/12/99	9:30AM	☐ YES ☒ NO	ORL 3	

Environmental Conservation Laboratories
10207 General Drive
Orlando, Florida 32824-8529
407 / 826-5314
Fax 407 / 850-6945
www.encolabs.com

ENCO Laboratories

DHRS Certification No. E83182

Client:	Environmental Detachment Charleston	Report #:	OR6692
		Date Submitted:	20-May-99
		Date Reported:	24-May-99
Address:	1899 N. Hobson Ave	Project #:	SA35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QAUL	DIL	UNITS	RDL	MDL
OR6692-1	SA35SB67	5/20/99 7:54	FLPRO	Hydrocarbons (C8-C40)	150			mg/Kg	6.8	3.4
OR6692-1	SA35SB67	5/20/99 7:54	FLPRO	o-Terphenyl	149			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QAUL	DIL	UNITS	RDL	MDL
OR6692-1	SA35SB67	5/20/99 7:54	SM2540G	Percent Solids	98			%		

NOTE: Analyte values are reported on a dry weight basis.

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: NTC Orlando | PROJECT NO.: SA35 | P.O. NUMBER:

PROJECT LOC. (State): FL | SAMPLER(s) NAME: Rusty Cope | PHONE: 496-2173 | FAX:

CLIENT NAME: ENV DET CHASN | CLIENT PROJECT MANAGER: AJ Moyer

CLIENT ADDRESS (CITY, STATE, ZIP): 1899 N Hobson Ave, N. Chas. SC 29405

PAGE 1 OF 1

☐ STANDARD REPORT DELIVERY

☑ EXPEDITED REPORT DELIVERY (surcharge)

Date Due: 5/22/99

SAMPLE STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	MATRIX TYPE: SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	REQUIRED ANALYSIS: FLTRPH	REMARKS
1	5/20/99	0754	X		SA35SB67					X					1	Extended to 15'
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																

NUMBER OF CONTAINERS SUBMITTED

SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE) R W Cope	DATE 5/20/99	TIME 1035	RECEIVED BY: (SIGNATURE) Samantha Hagan	DATE 5/20/99	TIME 10:35
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS
Kim ☐ Jackson J ☒ Orlando	5/20/99	10:35AM	☐ YES ☒ NO	ORLA 2	

Client:	Environmental Detachment Charleston	Report #:	OR6474
		Date Submitted:	4-May-99
		Date Reported:	13-May-99
Address:	1899 N. Hobson Ave	Project #:	SA35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-9	SA35SC46(2' SIDE WA)	5/4/99 11:04	FLPRO	Hydrocarbons (C8-C40)	10	U		mg/Kg	3.4	1.8
OR6474-9	SA35SC46(2' SIDE WA)	5/4/99 11:04	FLPRO	o-Terphenyl	100			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-9	SA35SC46(2' SIDE WA)	5/4/99 11:04	SM2540G	Percent Solids	96			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6474
		Date Submitted:	4-May-99
		Date Reported:	13-May-99
Address:	1899 N. Hobson Ave	Project #:	SA35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-10	SA35SC47(2' SIDE WA)	5/4/99 11:11	FLPRO	Hydrocarbons (C8-C40)	10	U		mg/Kg	3.4	1.8
OR6474-10	SA35SC47(2' SIDE WA)	5/4/99 11:11	FLPRO	o-Terphenyl	106			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-10	SA35SC47(2' SIDE WA)	5/4/99 11:11	SM2540G	Percent Solids	96			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6474
		Date Submitted:	4-May-99
		Date Reported:	13-May-99
Address:	1899 N. Hobson Ave	Project #:	SA35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-11	SA35SC48(2' SIDE WA)	5/4/99 11:20	FLPRO	Hydrocarbons (C8-C40)	10	U		mg/Kg	3.4	1.8
OR6474-11	SA35SC48(2' SIDE WA)	5/4/99 11:20	FLPRO	o-Terphenyl	108			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-11	SA35SC48(2' SIDE WA)	5/4/99 11:20	SM2540G	Percent Solids	96			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6474
		Date Submitted:	4-May-99
		Date Reported:	13-May-99
Address:	1899 N. Hobson Ave	Project #:	SA35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-12	SA35SC49(2' SIDE WA)	5/4/99 11:27	FLPRO	Hydrocarbons (C8-C40)	10	U		mg/Kg	3.4	1.8
OR6474-12	SA35SC49(2' SIDE WA)	5/4/99 11:27	FLPRO	o-Terphenyl	119			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-12	SA35SC49(2' SIDE WA)	5/4/99 11:27	SM2540G	Percent Solids	96			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6474
		Date Submitted:	4-May-99
		Date Reported:	13-May-99
Address:	1899 N. Hobson Ave	Project #:	SA35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-13	SA35SC50(8' SIDE WA)	5/4/99 11:35	FLPRO	Hydrocarbons (C8-C40)	10	U		mg/Kg	3.5	1.8
OR6474-13	SA35SC50(8' SIDE WA)	5/4/99 11:35	FLPRO	o-Terphenyl	125			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-13	SA35SC50(8' SIDE WA)	5/4/99 11:35	SM2540G	Percent Solids	93			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6474
		Date Submitted:	4-May-99
		Date Reported:	13-May-99
Address:	1899 N. Hobson Ave	Project #:	SA35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-14	SA35SC51(8' SIDE WA)	5/4/99 11:44	FLPRO	Hydrocarbons (C8-C40)	10	U		mg/Kg	3.4	1.8
OR6474-14	SA35SC51(8' SIDE WA)	5/4/99 11:44	FLPRO	o-Terphenyl	113			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-14	SA35SC51(8' SIDE WA)	5/4/99 11:44	SM2540G	Percent Solids	97			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6474
		Date Submitted:	4-May-99
		Date Reported:	13-May-99
Address:	1899 N. Hobson Ave	Project #:	SA35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-15	SA35SC52(8' SIDE WA)	5/4/99 11:51	FLPRO	Hydrocarbons (C8-C40)	10	U		mg/Kg	3.5	1.8
OR6474-15	SA35SC52(8' SIDE WA)	5/4/99 11:51	FLPRO	o-Terphenyl	103			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-15	SA35SC52(8' SIDE WA)	5/4/99 11:51	SM2540G	Percent Solids	93			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6474
		Date Submitted:	4-May-99
		Date Reported:	13-May-99
Address:	1899 N. Hobson Ave	Project #:	SA35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-16	SA35SC53(8' SIDE WA)	5/4/99 12:00	FLPRO	Hydrocarbons (C8-C40)	10	U		mg/Kg	3.6	1.9
OR6474-16	SA35SC53(8' SIDE WA)	5/4/99 12:00	FLPRO	o-Terphenyl	108			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-16	SA35SC53(8' SIDE WA)	5/4/99 12:00	SM2540G	Percent Solids	91			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

QSARF #_____

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: NTC Orlando | PROJECT NO.: SA35 | P.O. NUMBER:
PROJECT LOC. (State): FL | SAMPLER(s) NAME: Rusty Cope | PHONE: 496 2173 | FAX:
CLIENT NAME: Eno Det Chas | CLIENT PROJECT MANAGER: AJ Moyer
CLIENT ADDRESS (CITY, STATE, ZIP): 1899 N Hobson Ave N. Chas, SC 29405

PAGE 1 OF 2

☐ STANDARD REPORT DELIVERY
☒ EXPEDITED REPORT DELIVERY (surcharge)
Date Due: 5/7/99 1PM

STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	MATRIX TYPE: SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	REQUIRED ANALYSIS: FL TRPH	NUMBER OF CONTAINERS SUBMITTED	REMARKS
1	5/4/99	1002	X		SA35SE30					X					1		2' side walls
2		1010	X		SA35SE31					X					1		
3		1017	X		SA35SE32					X					1		
4		1024	X		SA35SE33					X					1		
5		1030	X		SA35SE34					X					1		8' side walls
6		1039	X		SA35SE35					X					1		
7		1046	X		SA35SE36					X					1		
8		1055	X		SA35SE37					X					1		
9		1104	X		SA35SC46					X					1		2' Side Walls
10		1111			SA35SC47					X					1		
11		1120			SA35SC48					X					1		
12		1127			SA35SC49					X					1		
13		1135			SA35SC50					X					1		8' Side Walls
14		1144			SA35SC51					X					1		

SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE) K W Cope	DATE 5/4/99	TIME 13:45	RECEIVED BY: (SIGNATURE) Jamesh Meyer	DATE 5/4/99 TIME 13:45
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE TIME
RECEIVED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS
K. A. Trotz ☐ Jacksonville ☐ Orlando	5-4-99	2'.30	☐ YES ☒ NO	ORL	

ENCO

ENVIRONME AL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

QA F #

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER	PAGE	OF
NTC Orlando	SA-35		2	2

PROJECT LOC. (State): FL
SAMPLER(s) NAME: Rusty Cope
PHONE: 496-2173
FAX:
CLIENT NAME: Env Det Chas.
CLIENT PROJECT MANAGER: AJ Moyer
CLIENT ADDRESS (CITY, STATE, ZIP): 1899 N Hobson Ave; N. Chas, S.C. 29405

MATRIX TYPE: SURFACE WATER, GROUND WATER, WASTEWATER, DRINKING WATER, SOIL/SOLID/SEDIMENT, NONAQUEOUS LIQUID (oil, solvent, etc.), AIR, SLUDGE, OTHER

REQUIRED ANALYSIS: FLTRPH

☐ STANDARD REPORT DELIVERY
☑ EXPEDITED REPORT DELIVERY (surcharge)
Date Due: 5/7/99

STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID	AIR	SLUDGE	OTHER	FLTRPH (NUMBER OF CONTAINERS SUBMITTED)	REMARKS
1	5/4/99	1151	X		SA35SC52					X					1	8' Side walls
2	5/4/99	1200	X		SA35SC53					X					1	
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																

	DATE	TIME		DATE	TIME		DATE	TIME
SAMPLE KIT PREPARED BY: ☐ JACKSONVILLE ☐ ORLANDO			RELINQUISHED BY: (SIGNATURE) R W Cope	5/4/99		RECEIVED BY: (SIGNATURE) [signature]	5/4/99	13:45
RELINQUISHED BY: (SIGNATURE)			RECEIVED BY: (SIGNATURE)			RELINQUISHED BY: (SIGNATURE)		
RECEIVED BY (SIGNATURE)			RELINQUISHED BY: (SIGNATURE)			RECEIVED BY: (SIGNATURE)		

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS
[signature] ☐ Jacksonville ☐ Orlando	5-4-99	2:30	☐ YES ☒ NO	ORL /	

Environmental Conservation Laboratories
10207 General Drive
Orlando, Florida 32824-8529
)7 / 826-5314
. ax 407 / 850-6945
www.enco labs.com

ENCO Laboratories

DHRS Certification No. E83182

Client:	Environmental Detachment Charleston	Report #:	OR6430
		Date Submitted:	30-Apr-99
		Date Reported:	10-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6430-1	SA35SD1	4/30/99 10:05	FLPRO	Hydrocarbons (C8-C40)	10	U		mg/Kg	3.4	1.8
OR6430-1	SA35SD1	4/30/99 10:05	FLPRO	o-Terphenyl	103			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6430-1	SA35SD1	4/30/99 10:05	SM2540G	Percent Solids	97			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6430
		Date Submitted:	30-Apr-99
		Date Reported:	10-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6430-2	SA35SD2	4/30/99 10:08	FLPRO	Hydrocarbons (C8-C40)	10	U		mg/Kg	3.4	1.8
OR6430-2	SA35SD2	4/30/99 10:08	FLPRO	o-Terphenyl	99			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6430-2	SA35SD2	4/30/99 10:08	SM2540G	Percent Solids	97			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6430
		Date Submitted:	30-Apr-99
		Date Reported:	10-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6430-3	SA35SD3	4/30/99 10:15	FLPRO	Hydrocarbons (C8-C40)	10	U		mg/Kg	3.4	1.8
OR6430-3	SA35SD3	4/30/99 10:15	FLPRO	o-Terphenyl	93			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6430-3	SA35SD3	4/30/99 10:15	SM2540G	Percent Solids	97			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6430
		Date Submitted:	30-Apr-99
		Date Reported:	10-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6430-4	SA35SD4	4/30/99 10:23	FLPRO	Hydrocarbons (C8-C40)	10	U		mg/Kg	3.4	1.8
OR6430-4	SA35SD4	4/30/99 10:23	FLPRO	o-Terphenyl	99			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6430-4	SA35SD4	4/30/99 10:23	SM2540G	Percent Solids	97			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6430
		Date Submitted:	30-Apr-99
		Date Reported:	10-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6430-5	SA35SD5	4/30/99 10:30	FLPRO	Hydrocarbons (C8-C40)	10	U		mg/Kg	3.4	1.8
OR6430-5	SA35SD5	4/30/99 10:30	FLPRO	o-Terphenyl	97			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6430-5	SA35SD5	4/30/99 10:30	SM2540G	Percent Solids	97			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6430
		Date Submitted:	30-Apr-99
		Date Reported:	10-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6430-6	SA35SD6	4/30/99 10:45	FLPRO	Hydrocarbons (C8-C40)	10	U		mg/Kg	3.4	1.7
OR6430-6	SA35SD6	4/30/99 10:45	FLPRO	o-Terphenyl	94			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6430-6	SA35SD6	4/30/99 10:45	SM2540G	Percent Solids	98			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6430
		Date Submitted:	30-Apr-99
		Date Reported:	10-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6430-7	SA35SD7	4/30/99 10:54	FLPRO	Hydrocarbons (C8-C40)	10	U		mg/Kg	3.4	1.8
OR6430-7	SA35SD7	4/30/99 10:54	FLPRO	o-Terphenyl	94			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6430-7	SA35SD7	4/30/99 10:54	SM2540G	Percent Solids	96			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6430
		Date Submitted:	30-Apr-99
		Date Reported:	10-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6430-8	SA35SD8	4/30/99 11:06	FLPRO	Hydrocarbons (C8-C40)	18			mg/Kg	3.4	1.8
OR6430-8	SA35SD8	4/30/99 11:06	FLPRO	o-Terphenyl	101			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6430-8	SA35SD8	4/30/99 11:06	SM2540G	Percent Solids	97			%		

NOTE: Analyte values are reported on a dry weight basis.

QSARF #_____

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: NTC Orlando | PROJECT NO.: SA-35 | P.O. NUMBER:

PROJECT LOC. (State): FL. | SAMPLER(s) NAME: Rusty Cope | PHONE: 496-2173 | FAX: 407-869-5768

CLIENT NAME: ENV DET CHAS | CLIENT PROJECT MANAGER: A. Moyer

CLIENT ADDRESS (CITY, STATE, ZIP): 1899 N Hobson Ave; N. Charleston, SC 29405

PAGE: | OF:

☐ STANDARD REPORT DELIVERY

☑ EXPEDITED REPORT DELIVERY (surcharge)

Date Due: 5-3-99 PM

SAMPLE STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	MATRIX TYPE: SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	REQUIRED ANALYSIS: FLTRPH	NUMBER OF CONTAINERS SUBMITTED	REMARKS
1	4/30/99	1005	X		SA35SD1					X						1	SA-35 Area D
2	4/30/99	1008	X		SA35SD2					X						1	@ 2' and 8'
3	4/30/99	1015	X		SA35SD3					X						1	each side wall
4	4/30/99	1023	X		SA35SD4					X						1	
5	4/30/99	1030	X		SA35SD5					X						1	
6	4/30/99	1045	X		SA35SD6					X						1	
7	4/30/99	1054	X		SA35SD7					X						1	
8	4/30/99	1106	X		SA35SD8					X						1	
9																	
10																	
11																	
12																	
13																	
14																	

SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
RELINQUISHED BY: (SIGNATURE) R W Cope	4/30/99	1300	RECEIVED BY: (SIGNATURE) James W. Gregory	4/30/99	1300	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) Kim ☐ Jackson. ☒ Orlando	DATE: 4/30/99	TIME: 14.30PM	CUSTODY INTACT: ☐ YES ☒ NO	ENCO LOG NO: OR61	REMARKS

Environmental Conservation Laboratories
10207 General Drive
Orlando, Florida 32824-8529
407 / 826-5314
Fax 407 / 850-6945
www.encolabs.com

ENCO Laboratories

DHRS Certification No. E83182

Client:	Environmental Detachment Charleston	**Report #:**	OR6474
		Date Submitted:	4-May-99
		Date Reported:	13-May-99
Address:	1899 N. Hobson Ave	**Project #:**	SA35
	Charleston, SC 29405-2106	**Project Name:**	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-1	SA35SE30(2' SIDE WA)	5/4/99 10:02	FLPRO	Hydrocarbons (C8-C40)	10	U		mg/Kg	3.4	1.8
OR6474-1	SA35SE30(2' SIDE WA)	5/4/99 10:02	FLPRO	o-Terphenyl	72			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-1	SA35SE30(2' SIDE WA)	5/4/99 10:02	SM2540G	Percent Solids	97			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6474
		Date Submitted:	4-May-99
		Date Reported:	13-May-99
Address:	1899 N. Hobson Ave	Project #:	SA35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-2	SA35SE31(2' SIDE W)_	5/4/99 10:10	FLPRO	Hydrocarbons (C8-C40)	10	U		mg/Kg	3.4	1.8
OR6474-2	SA35SE31(2' SIDE W)_	5/4/99 10:10	FLPRO	o-Terphenyl	101			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-2	SA35SE31(2' SIDE W)_	5/4/99 10:10	SM2540G	Percent Solids	97			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6474
		Date Submitted:	4-May-99
		Date Reported:	13-May-99
Address:	1899 N. Hobson Ave	Project #:	SA35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-3	SA35SE32(2' SIDE WA)	5/4/99 10:17	FLPRO	Hydrocarbons (C8-C40)	10	U		mg/Kg	3.4	1.8
OR6474-3	SA35SE32(2' SIDE WA)	5/4/99 10:17	FLPRO	o-Terphenyl	107			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-3	SA35SE32(2' SIDE WA)	5/4/99 10:17	SM2540G	Percent Solids	97			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6474
		Date Submitted:	4-May-99
		Date Reported:	13-May-99
Address:	1899 N. Hobson Ave	Project #:	SA35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-4	SA35SE33(2' SIDE WA)	5/4/99 10:24	FLPRO	Hydrocarbons (C8-C40)	10	U		mg/Kg	3.4	1.8
OR6474-4	SA35SE33(2' SIDE WA)	5/4/99 10:24	FLPRO	o-Terphenyl	109			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-4	SA35SE33(2' SIDE WA)	5/4/99 10:24	SM2540G	Percent Solids	97			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6474
		Date Submitted:	4-May-99
		Date Reported:	13-May-99
Address:	1899 N. Hobson Ave	Project #:	SA35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-5	SA35SE34(8' SIDE WA)	5/4/99 10:30	FLPRO	Hydrocarbons (C8-C40)	10	U		mg/Kg	3.4	1.7
OR6474-5	SA35SE34(8' SIDE WA)	5/4/99 10:30	FLPRO	o-Terphenyl	106			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-5	SA35SE34(8' SIDE WA)	5/4/99 10:30	SM2540G	Percent Solids	98			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6474
		Date Submitted:	4-May-99
		Date Reported:	13-May-99
Address:	1899 N. Hobson Ave	Project #:	SA35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-6	SA35SE35(8' SIDE WA)	5/4/99 10:39	FLPRO	Hydrocarbons (C8-C40)	10	U		mg/Kg	3.4	1.8
OR6474-6	SA35SE35(8' SIDE WA)	5/4/99 10:39	FLPRO	o-Terphenyl	75			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-6	SA35SE35(8' SIDE WA)	5/4/99 10:39	SM2540G	Percent Solids	96			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6474
		Date Submitted:	4-May-99
		Date Reported:	13-May-99
Address:	1899 N. Hobson Ave	Project #:	SA35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-7	SA35SE36(8' SIDE WA)	5/4/99 10:46	FLPRO	Hydrocarbons (C8-C40)	10	U		mg/Kg	3.4	1.7
OR6474-7	SA35SE36(8' SIDE WA)	5/4/99 10:46	FLPRO	o-Terphenyl	118			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-7	SA35SE36(8' SIDE WA)	5/4/99 10:46	SM2540G	Percent Solids	98			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6474
		Date Submitted:	4-May-99
		Date Reported:	13-May-99
Address:	1899 N. Hobson Ave	Project #:	SA35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-8	SA35SE37(8' SIDE WA)	5/4/99 10:55	FLPRO	Hydrocarbons (C8-C40)	10	U		mg/Kg	3.4	1.8
OR6474-8	SA35SE37(8' SIDE WA)	5/4/99 10:55	FLPRO	o-Terphenyl	107			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6474-8	SA35SE37(8' SIDE WA)	5/4/99 10:55	SM2540G	Percent Solids	97			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: NTC Orlando | PROJECT NO.: SA35 | P.O. NUMBER:
PROJECT LOC. (State): FL | SAMPLER(s) NAME: Rusty Cope | PHONE: 496 2173 | FAX:
CLIENT NAME: Enc Det Chas | CLIENT PROJECT MANAGER: AJ Moyer
CLIENT ADDRESS (CITY, STATE, ZIP): 1899 N Hobson Ave N. Chas, SC 29405

PAGE 1 OF 2

☐ STANDARD REPORT DELIVERY
☒ EXPEDITED REPORT DELIVERY (surcharge)
Date Due: 5/7/99
1 AM

STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	MATRIX TYPE: SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	REQUIRED ANALYSIS: ETRPH	NUMBER OF CONTAINERS SUBMITTED	REMARKS
1	5/4/99	1002	X		SA35SE30					X					1		2' side walls
2		1010	X		SA35SE 31					X					1		↓
3		1017	X		SA35SE 32					X					1		
4		1024	X		SA35SE 33					X					1		
5		1030	X		SA35SE 34					X					1		8' side walls
6		1039	X		SA35SE 35					X					1		↓
7		1046	X		SA35SE 36					X					1		
8		1055	X		SA35SE 37					X					1		
9		1104	X		SA35SC 46					X					1		2' side walls
10		1111			SA35SC 47					X					1		↓
11		1120			SA35SC 48					X					1		
12		1127			SA35SC 49					X					1		
13		1135			SA35SC 50					X					1		8' Side walls
14		1144			SA35SC 51					X					1		↓

	DATE	TIME		DATE	TIME		DATE	TIME
SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO			RELINQUISHED BY: (SIGNATURE) RW Cope	5/4/99	13:45	RECEIVED BY: (SIGNATURE) Jamesh. Gregg	5/4/99	13:45
RELINQUISHED BY: (SIGNATURE)			RECEIVED BY: (SIGNATURE)			RELINQUISHED BY: (SIGNATURE)		
RECEIVED BY (SIGNATURE)			RELINQUISHED BY: (SIGNATURE)			RECEIVED BY: (SIGNATURE)		

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS
K.A. Ironside ☐Jacksonville ☐Orlando	5-4-99	2:30	☐ YES ☒ NO	0126	

QSARF # _____

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
NTC Orlando	SA-35	

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE	FAX
FL	Rusty Cope	296-2173	

CLIENT NAME	CLIENT PROJECT MANAGER
ENV DET CHAS.	AJ Moyer

CLIENT ADDRESS (CITY, STATE, ZIP)
1899 N Hobson Ave; N. Chas., S.C. 29405

☐ STANDARD REPORT DELIVERY
☑ EXPEDITED REPORT DELIVERY (surcharge)
Date Due: 5/7/99

SAMPLE						MATRIX TYPE									REQUIRED ANALYSIS											
STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	FLTRPH											
1	5/4/99	1151	X		SA35SC52					X					1											
2	5/4/99	1200	X		SA35SC53					X					1											
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										
13																										
14																										

NUMBER OF CONTAINERS SUBMITTED

REMARKS: 8' Side walls

SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
			R W Pope	5/4/99		Samuel J. Myers	5/4/99	13:45
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) ☐ Jacksonville ☐ Orlando	DATE	TIME	CUSTODY INTACT	ENCO LOG NO	REMARKS
K. Hall	5-4-99	2:30	☐ YES ☒ NO	ORL 1	

Client:	Environmental Detachment Charleston	Report #:	OR6460
		Date Submitted:	3-May-99
		Date Reported:	6-May-99
Address:	1899 N. Hobson Ave	Project #:	SA
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6460-4	SA35SG26	5/1/99 11:25	7060	Arsenic	0.4	U		mg/Kg	0.4	0.05
SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6460-4	SA35SG26	5/1/99 11:25	SM2540G	Percent Solids	95			%		

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6460
		Date Submitted:	3-May-99
Address:	1899 N. Hobson Ave	Date Reported:	6-May-99
	Charleston, SC 29405-2106	Project #:	SA
		Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6460-5	SA35SG27	5/1/99 11:34	7060	Arsenic	0.4	U		mg/Kg	0.4	0.05
SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6460-5	SA35SG27	5/1/99 11:34	SM2540G	Percent Solids	96			%		

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6460
		Date Submitted:	3-May-99
		Date Reported:	6-May-99
Address:	1899 N. Hobson Ave	Project #:	SA
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6460-6	SA35SG28	5/1/99 11:41	7060	Arsenic	0.4	U		mg/Kg	0.4	0.05
SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6460-6	SA35SG28	5/1/99 11:41	SM2540G	Percent Solids	95			%		

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6460
		Date Submitted:	3-May-99
Address:	1899 N. Hobson Ave	Date Reported:	6-May-99
	Charleston, SC 29405-2106	Project #:	SA
		Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6460-7	SA35SG29	5/1/99 11:50	7060	Arsenic	0.4	U		mg/Kg	0.4	0.05
SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6460-7	SA35SG29	5/1/99 11:50	SM2540G	Percent Solids	96			%		

U = Compound was analyzed for but not detected to the level shown.

C RF #_____

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
NTC ORlando	SA	

PROJECT LOC. (State): FL
SAMPLER(s) NAME: Rusty Cope
PHONE: 496-2173
FAX:
CLIENT NAME: ENV DET CHASN
CLIENT PROJECT MANAGER: A Moyer
CLIENT ADDRESS (CITY, STATE, ZIP): 1899 N Hobson Ave, N Charleston, SC 29405

PAGE ____ OF ____

☐ STANDARD REPORT DELIVERY
☑ EXPEDITED REPORT DELIVERY (surcharge)
Date Due: 5/5/99

SAMPLE STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	MATRIX TYPE: SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	REQUIRED ANALYSIS: FLTRPH	Arsenic (FCP) 7000A 8081 Pesticides	REMARKS
1	5/1/99	1100	X		SA35SI23 ✓					X					1		
2	5/1/99	1110	X		SA35SI24 ✓					X					1		
3	5/1/99	1118	X		SA35SI25 ✓					X					1		Duplicate of SA35SI22
4	5/1/99	1125	X		SA35SG26 ✓					X					1		
5	5/1/99	1134	X		SA35SG27 ✓					X					1		
6	5/1/99	1141	X		SA35SG28 ✓					X					1		
7	5/1/99	1150	X		SA35SG29 ✓					X					1		
8	5/1/99	1200	X		SA37S01 ✓					X					PWC 1	1	
9	5/1/99	1210	X		SA37S02 ✓					X					PWC 1	1	
10	5/1/99	1218	X		SA37S03 ✓					X					PWC 1	1	
11	5/1/99	1226	X		SA37S04 ✓					X					PWC 1	1	
12	5/1/99	1300	X		SA8S019 ✓											1	
13	5/1/99	1310	X		SA8S020 ✓											1	
14																	

SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
			K W Cope	5/3/99	1415	Jamesh. Gregory	5/3/99	1415
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO	REMARKS
Kim ☐ Jacksonvi. J ☒ Orlando	5/3/99	3:30PM	☐ YES ☒ NO	OR6420	

Client:	Environmental Detachment Charleston	Report #:	OR6459
		Date Submitted:	3-May-99
		Date Reported:	6-May-99
Address:	1899 N. Hobson Ave	Project #:	SA35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-9	SA35SH17	5/1/99 10:01	7060	Arsenic	0.4	U		mg/Kg	0.4	0.05

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-9	SA35SH17	5/1/99 10:01	SM2540G	Percent Solids	96			%		

U = Compound was analyzed for but not deteched to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6459
		Date Submitted:	3-May-99
		Date Reported:	6-May-99
Address:	1899 N. Hobson Ave	Project #:	SA35
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-10	SA35SH18	5/1/99 10:10	7060	Arsenic	0.5			mg/Kg	0.4	0.05

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-10	SA35SH18	5/1/99 10:10	SM2540G	Percent Solids	94			%		

Client:	Environmental Detachment Charleston	Report #:	OR6459
		Date Submitted:	3-May-99
Address:	1899 N. Hobson Ave	Date Reported:	6-May-99
	Charleston, SC 29405-2106	Project #:	SA35
		Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-11	SA35SH19	5/1/99 10:18	7060	Arsenic	0.47			mg/Kg	0.4	0.05
SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-11	SA35SH19	5/1/99 10:18	SM2540G	Percent Solids	96			%		

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

COC #_____

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
NTC Orlando	SA 35	

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE	FAX
FL.	Rusty Cope	496-2173	

CLIENT NAME	CLIENT PROJECT MANAGER
ENV DET CHASN	A. Moyer

CLIENT ADDRESS (CITY, STATE, ZIP): 1899 N Hobson Ave, N. Chas, SC 29405

☐ STANDARD REPORT DELIVERY

☑ EXPEDITED REPORT DELIVERY (surcharge)

Date Due: 5/5/99 PM

SAMPLE						MATRIX TYPE									REQUIRED ANALYSIS													PAGE	OF
STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	FL TRPH	Arsenic (Lep)												REMARKS
						NUMBER OF CONTAINERS SUBMITTED																								
1	4/30/99	1415	X		SA35SA9 ✓					X					1	X													
2	4/30/99	1420	X		SA35SA10 ✓					X					1	X													
3	4/30/99	1426	X		SA35 SA11 ✓					X					1	X													
4	4/30/99	1435	X		SA35 SA12 ✓					X					1	X													
5	4/30/99	1450	X		SA35SB 13 ✓					X					1	X													
6	4/30/99	1458	X		SA35SB 14 ✓					X					1	X													
7	4/30/99	1505	X		SA35SB 15 ✓					X					1	X													
8	4/30/99	1510	X		SA35SB 16 ✓					X					1	X													
9	5/1/99	1001	X		SA35SH 17 ✓					X						1													
10	5/1/99	1010	X		SA35 SH 18 ✓					X						1													
11	5/1/99	1018	X		SA35 SH 19 ✓					X						1													
12	5/1/99	1027	X		SA35 SH 20 ✓					X						1													
13	5/1/99	1045	X		SA35 SI 21 ✓					X						1													
14	5/1/99	1053	X		SA35 SI 22 ✓					X						1													

SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
			RW Cope	5/3/99	1415	Samuel J. Gregory	5/3/99	1415
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS
K. Horn ☐ Jacksonvi. ☐ Orlando	5-3-99	3:30	☐ YES ☐ NO	0496.1	

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874.
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 14, 1999

Sample ID	: 99SPORT0175-3
Lab ID	: 9905315-03
Matrix	: Soil
Date Collected	: 05/10/99
Date Received	: 05/11/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic	U	ND	441	485	ug/kg	2.0	MBL	05/12/99	1051	148886	1
The following prep procedures were performed:											
TRACE							FGD	05/11/99	2000	148886	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905315-03

NPWC00197 99 3150

CHAIN OF CUSTODY RECORD

General Engineering Lab[illegible]ies, Inc.
2040 Savage Road
Charleston, South Carol. 407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Page 1 of 1

Client Name/Facility Name: NTC ORLANDO

Collected by/Company: ENV DET CHASN

	SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method Required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Arsenic	Remarks
-01	99Sport0175-1	5/10/99	1720		X		X	1																X	SA35SA54
-02	99Sport0175-2	5/10/99	1725		X		X	1																X	SA35SA55
-03	99Sport0175-3	5/10/99	1730		X		X	1																X	SA35SHB56
-04	99Sport0175-4	5/10/99	1735		X		X	1																X	SA35SHB57
-05	99Sport0175-5	5/10/99	1740		X		X	1																X	SA35SI58
-06	99Sport0175-6	5/10/99	1745		X		X	1																X	SA35SI59
-07	99Sport0175-7	5/10/99	1755		X		X	1																X	SA8S046
-08	99Sport0175-8	5/10/99	1800		X		X	1																X	SA8S047
-09	99Sport0175-9	5/10/99	1805		X		X	1																X	SA8S048
-10	99Sport0175-10	5/10/99	1810		X		X	1																X	SA8S049
																									2½' from Stake

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

40172

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
R W Cope	5/10/99	1900					
Relinquished by:	**Date:**	**Time:**	**Received by lab by:**	**Date:**	**Time:**	**Remarks:**	
			Thurland Hamlet	5-11-99	0700		

White [illegible]ple collector Yellow = file Pink = with report

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 14, 1999

Sample ID	: 99SPORT0175-5
Lab ID	: 9905315-05
Matrix	: Soil
Date Collected	: 05/10/99
Date Received	: 05/11/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic	U	ND	438	481	ug/kg	2.0	MBL	05/12/99	1103	148886	

The following prep procedures were performed:

TRACE							FGD	05/11/99	2000	148886	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905315-05

NPWC00197 99 3150

CHAIN OF CUSTODY RECORD

General Engineering Lab[illegible]s, Inc.
2040 Savage Road
Charleston, South Carol[illegible]07
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Page 1 of 1

Client Name/Facility Name: NTC ORLANDO

Collected by/Company: ENV DET CHASN

	SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Arsenic	Remarks
-01	99Sport0175-1	5/10/99	1720		X		X	1																X	SA35SA54
-02	99Sport0175-2	5/10/99	1725		X		X	1																X	SA35SA55
-03	99Sport0175-3	5/10/99	1730		X		X	1																X	SA35SHB56
-04	99Sport0175-4	5/10/99	1735		X		X	1																X	SA35SHB57
-05	99Sport0175-5	5/10/99	1740		X		X	1																X	SA35SI58
-06	99Sport0175-6	5/10/99	1745		X		X	1																X	SA35SI59
-07	99Sport0175-7	5/10/99	1755		X		X	1																X	SA85046
-08	99Sport0195-8	5/10/99	1800		X		X	1																X	SA85047
-09	99Sport0175-9	5/10/99	1805		X		X	1																X	SA85048
-10	99Sport0175-10	5/10/99	1810		X		X	1																X	SA85049
																									2½' from Stake

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

40172

Remarks

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
R W Cope	5/10/99	1900					
Relinquished by:	Date:	Time:	Received by lab by:	Date:	Time:	Remarks:	
			Kristand Kamdar	5-11-99	0700		

White = [illegible]le collector Yellow = file Pink = with report

Client:	Environmental Detachment Charleston	Report #:	OR6459
		Date Submitted:	3-May-99
Address:	1899 N. Hobson Ave	Date Reported:	6-May-99
	Charleston, SC 29405-2106	Project #:	SA35
		Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-14	SA35SI22	5/1/99 10:53	7060	Arsenic	0.8			mg/Kg	0.4	0.06
SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6459-14	SA35SI22	5/1/99 10:53	SM2540G	Percent Solids	90			%		

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CRF #_____

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
NTC Orlando	SA35	

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE	FAX
FL.	Rusty Cope	496-2173	

CLIENT NAME	CLIENT PROJECT MANAGER
ENV DET CHASN	A. Moyer

CLIENT ADDRESS (CITY, STATE, ZIP)
1899 N Hobson Ave, N. Chas, SC 29405

PAGE ____ OF ____

☐ STANDARD REPORT DELIVERY

☑ EXPEDITED REPORT DELIVERY (surcharge)

Date Due: 5/5/99 PM

SAMPLE						MATRIX TYPE									REQUIRED ANALYSIS													REMARKS
STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	FL-TRPH	Arsenic (TCLP)	NUMBER OF CONTAINERS SUBMITTED											
1	4/30/99	1415	X		SA35SA9 ✓					X					1	X												
2	4/30/99	1420	X		SA35SA10 ✓					X					1	X												
3	4/30/99	1426	X		SA35 SA11 ✓					X					1	X												
4	4/30/99	1435	X		SA35 SA12 ✓					X					1	X												
5	4/30/99	1450	X		SA35SB 13 ✓					X					1	X												
6	4/30/99	1458	X		SA35SB 14 ✓					X					1	X												
7	4/30/99	1505	X		SA35SB 15 ✓					X					1	X												
8	4/30/99	1510	X		SA35SB 16 ✓					X					1	X												
9	5/1/99	1001	X		SA35SH 17 ✓					X						1												
10	5/1/99	1010	X		SA35 SH 18 ✓					X						1												
11	5/1/99	1018	X		SA35 SH 19 ✓					X						1												
12	5/1/99	1027	X		SA35 SH 20 ✓					X						1												
13	5/1/99	1045	X		SA35 SI 21 ✓					X						1												
14	5/1/99	1053	X		SA35 SI 22 ✓					X						1												

SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
			RW Cope	5/3/99	1145	Samuel L. Dregory	5/3/99	1145
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS
K. Horn ☐ Jacksonv ☐ Orlando	5-3-99	3:30	☐ YES ☐ NO	11R6 1	

Environmental Conservation Laboratories
10207 General Drive
Orlando, Florida 32824-8529
)7 / 826-5314
.ax 407 / 850-6945
www.encolabs.com

ENCO Laboratories

DHRS Certification No. E83182

Client:	Environmental Detachment Charleston	Report #:	OR6460
		Date Submitted:	3-May-99
		Date Reported:	6-May-99
Address:	1899 N. Hobson Ave	Project #:	SA
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6460-1	SA35SI23	5/1/99 11:00	7060	Arsenic	1.1			mg/Kg	0.4	0.06
SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6460-1	SA35SI23	5/1/99 11:00	SM2540G	Percent Solids	90			%		

Client:	Environmental Detachment Charleston	Report #:	OR6460
		Date Submitted:	3-May-99
		Date Reported:	6-May-99
Address:	1899 N. Hobson Ave	Project #:	SA
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6460-2	SA35SI24	5/1/99 11:10	7060	Arsenic	0.83			mg/Kg	0.4	0.06

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6460-2	SA35SI24	5/1/99 11:10	SM2540G	Percent Solids	90			%		

QSARF #_____

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
NTC Orlando	SA	

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE	FAX
FL	Rusty Cope	496-2173	

CLIENT NAME	CLIENT PROJECT MANAGER
ENV DET CHASN	A Moyer

CLIENT ADDRESS (CITY, STATE, ZIP): 1899 N Hobson Ave, N Charleston, SC 29405

PAGE ____ OF ____

☐ STANDARD REPORT DELIVERY

☑ EXPEDITED REPORT DELIVERY (surcharge)

Date Due: 5/5/99

STATION	SAMPLE DATE	SAMPLE TIME	GRAB	COMP	SAMPLE IDENTIFICATION	MATRIX: SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (OIL, SOLVENT, ETC.)	AIR	SLUDGE	OTHER	REQUIRED ANALYSIS: FL TRPH	Arsenic (ICP)	Total 8081 Pesticides	NUMBER OF CONTAINERS SUBMITTED	REMARKS
1	5/1/99	1100	X		SA35SI23 ✓					X								1	
2	5/1/99	1110	X		SA35SI24 ✓					X								1	
3	5/1/99	1118	X		SA35SI25 ✓					X								1	Duplicate of SA35 SI22
4	5/1/99	1125	X		SA35SG26 ✓					X								1	
5	5/1/99	1134	X		SA35SG27 ✓					X								1	
6	5/1/99	1141	X		SA35SG28 ✓					X								1	
7	5/1/99	1150	X		SA35SG29 ✓					X								1	
8	5/1/99	1200	X		SA37S01 ✓					X				RWC+				1	
9	5/1/99	1210	X		SA37S02 ✓					X				RWC+				1	
10	5/1/99	1218	X		SA37S03 ✓					X				RWC+				1	
11	5/1/99	1226	X		SA37S04 ✓					X				RWC+				1	
12	5/1/99	1300	X		SA8S019 ✓													1	
13	5/1/99	1310	X		SA8S020 ✓													1	
14																			

SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
			K W Cope	5/3/99	1415	James H. Gregory	5/3/99	1415
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO	REMARKS
Kim ☐ Jacksonv. ☒ Orlando	5/3/99	3:30pm	☐ YES ☒ NO	OR6[illegible]	

WASTE CHARACTERIZATION

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8745
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: April 21, 1999

Sample ID	: 99SPORT0153-1
Lab ID	: 9904503-01
Matrix	: TCLP
Date Collected	: 04/15/99
Date Received	: 04/16/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
ead		1040	15.9	50.0	ug/l	10.	MBL	04/21/99	0925	147160	1
The following prep procedures were performed:											
TCLP Prep for Metals							JL	04/19/99	1815	147011	2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 1311

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9904503-01

VPWC00197

9(4503 /

CHAIN OF CUSTODY RECORD

Page 1 of 1

– 3 DAY TURN AROUND –

General Engineering Labo[illegible]s, Inc.
2040 Savage Road
Charleston, South Carolin[illegible]7
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Client Name/Facility Name: SPORTENVDETCHASN

Collected by/Company: SPORTENVDETCHASN

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	TCLP-LEAD	Remarks
01-99SPORT0153-1	4-15/99	1425	X		X		1																X	S/A 35 AREA "A" FEDEX AIRBILL # 809872801958

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

39099

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
W. D. Obar	4-15/99	1515					
Relinquished by:	Date:	Time:	Received by lab by:	Date:	Time:	Remarks:	
			P. Powers	4/16/99	10:30		

White: [illegible]ple collector Yellow = file Pink = with report

RESULTS OF ANALYSIS

TCLP METALS	METHOD	SA-35009	SA-35013	Units
TCLP Arsenic	1311/7060	0.050 U	0.050 U	mg/L
Date Analyzed		04/23/99	04/23/99	
TCLP Barium	1311/7080	2.0 U	2.0 U	mg/L
Date Analyzed		04/23/99	04/23/99	
TCLP Cadmium	1311/7130	0.10 U	0.10 U	mg/L
Date Analyzed		04/23/99	04/23/99	
TCLP Chromium	1311/7190	0.50 U	0.50 U	mg/L
Date Analyzed		04/23/99	04/23/99	
TCLP Lead	1311/7420	0.50 U	0.50 U	mg/L
Date Analyzed		04/23/99	04/23/99	
TCLP Mercury	1311/7470	0.0050 U	0.0050 U	mg/L
Date Analyzed		04/26/99	04/26/99	
TCLP Selenium	1311/7740	0.050 U	0.050 U	mg/L
Date Analyzed		04/25/99	04/25/99	
TCLP Silver	1311/7760	0.20 U	0.20 U	mg/L
Date Analyzed		04/23/99	04/23/99	

Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 1311/8080 - TCLP PESTICIDES	SA-35015	SA-80001	Units
Chlordane (Total)	NR	1.0 U	µg/L
Endrin	NR	0.050 U	µg/L
Heptachlor	NR	0.050 U	µg/L
Heptachlor Epoxide	NR	0.050 U	µg/L
gamma-BHC (Lindane)	NR	0.050 U	µg/L
Methoxychlor	NR	1.0 U	µg/L
Toxaphene	NR	2.0 U	µg/L
Surrogate:		**% RECOV**	**LIMITS**
2,4,5,6-TCMX		80	30-150
		80	34-138
e Extracted		04/28/99	
Date Analyzed		04/29/99	

Analysis not requested for this sample.
U Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

TCLP METALS	METHOD	SA-35015	SA-80001	Units
TCLP Arsenic Date Analyzed	1311/7060	0.050 U 04/23/99	**0.060** 04/23/99	mg/L
TCLP Barium Date Analyzed	1311/7080	2.0 U 04/23/99	2.0 U 04/23/99	mg/L
TCLP Cadmium Date Analyzed	1311/7130	0.10 U 04/23/99	0.10 U 04/23/99	mg/L
TCLP Chromium Date Analyzed	1311/7190	0.50 U 04/23/99	0.50 U 04/23/99	mg/L
TCLP Lead Date Analyzed	1311/7420	0.50 U 04/23/99	**0.50** 04/23/99	mg/L
TCLP Mercury Date Analyzed	1311/7470	0.0050 U 04/26/99	0.0050 U 04/26/99	mg/L
TCLP Selenium Date Analyzed	1311/7740	0.050 U 04/25/99	0.050 U 04/25/99	mg/L
TCLP Silver Date Analyzed	1311/7760	0.20 U 04/23/99	0.20 U 04/23/99	mg/L

Compound was analyzed for but not detected to the level shown.

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
NTC Orlando		

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE	FAX
FL	R. Cope	496-2173	869-5468

CLIENT NAME	CLIENT PROJECT MANAGER
ENV DET CHASN	Ron Turnbow

CLIENT ADDRESS (CITY, STATE, ZIP)
1899 N. Hobson Ave N. Charleston, S.C 29405

PAGE ___ OF ___

☐ STANDARD REPORT DELIVERY

☐ EXPEDITED REPORT DELIVERY (surcharge)

Date Due: ___

SAMPLE STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	MATRIX TYPE: SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	REQUIRED ANALYSIS: TCLP Metals	TCLP Pesticides	NUMBER OF CONTAINERS SUBMITTED	REMARKS
1	4/20/99	1450	X		SA-35009					✓					X	1		
2	4/20/99	1505	X		SA 35013					✓					X	1		
3	4/20/99	1540	X		SA-35015					✓					X	1		
4	4/20/99	1640		X	SA-80001					✓					1	X	TCLP Pesticides Requested	5 Locations Area A
5	4/20/99	1700		X	SA-80002					✓					1	X	on 4-28-99.	5 Locations Area B
6	4/20/99	1720		X	SA-80003					✓					1	X		5 Locations Area C
7	4/21/99	1010	X		SA-42002					✓					1			
8	4/21/99	1022	X		SA-42001					✓					1			
9	4/21/99	1120	X		SA-23005					✓					1			McCoy Annex
10	4/21/99	1145		X	SA-18008					✓						1		" 5 Locations
11	4/21/99	1201		X	SA-17035					✓						1		" 5 locations
12																		
13																		
14																		

SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	4/21/99	1240	K W Cope					
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	4/21/99	1240	David Young					
RECEIVED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS
Kevin C ☐ Jacksonville ☒ Orlando	4/21/99	12:40PM	☐ YES ☒ NO	OR6316	

STUDY AREA 37

1. INTRODUCTION

1.1 STUDY AREA 37

SA 37 is located on the Main Base, Naval Training Center, Orlando (Figure 1). Building 2414 is a storage facility associated with the Bachelor Officers' Quarters. Several pesticides were detected in the surface soil sample north of Building 2414 (figure 2).

1.2 SA 37 INTERIM REMEDIAL ACTION

SOUTHDIV tasked the DET to perform an IRA for this site. The objective of the IRA was to excavate and dispose of soil contaminated with pesticides. The excavation was to continue until the sampling program indicated with reasonable confidence that the concentrations of contaminants at the site were less than residential limits specified by FDEP SCG, dated 30 April 1998 or USEPA Region III, dated 01 October 1998, whichever specifies the stricter criteria.

1.2.1 SA 37 Interim Remedial Action Execution Summary

The execution of this IRA consisted of excavating an area approximately 20′ x 25′ to a depth of 2′ (Figure 3). Soil removed from the site was characterized as hazardous and was sent to a permitted Treatment, Storage, and Disposal Facility (TSDF). A Confirmation sample was collected from each sidewall and excavation bottom, testing for pesticides. The results of these samples were all less than the RGOs.

2.0 INTERIM REMEDIAL ACTION EXCECUTION

2.1 ACTIONS PERFORMED BY THE INTERIM REMEDIAL ACTION WORK PLAN

Actions performed are listed below

- Excavation and disposal of an area approximately 20′ x 25′ to a depth of 2′
- Collection of confirmatory samples from each sidewall and excavation bottom for analysis of pesticides
- Restoration of site by backfilling, grading to surrounding area, and seeding

2.2 OBSERVATIONS NOTES

2.2.1 Soil Conditions

From ground surface to the bottom of the excavation the soil was dark silty sand.

3.0 INTERIM REMEDIAL ACTION OUTCOME

3.1 SITE CONDITIONS FOLLOWING COMPLETION OF WORK

Following completion of work, the DET had removed 44 tons of pesticide contaminated soil. The site was backfilled, graded to surrounding area and seeded. Site photographs are included in Appendix E1.

4.0 SAMPLING

4.1 CONFIRMATION SAMPLING

Upon completion of work a confirmation sample was taken on each sidewall and excavation bottom, testing for pesticides (Figure 4). See appendix E2 for sampling documentation.

5.0 WASTE GENERATION

5.1 Hazardous Waste

A total of 44 tons of hazardous pesticide contaminated soil was disposed of to a permitted treatment, storage and disposal facility. Waste Manifests are in appendix E3.

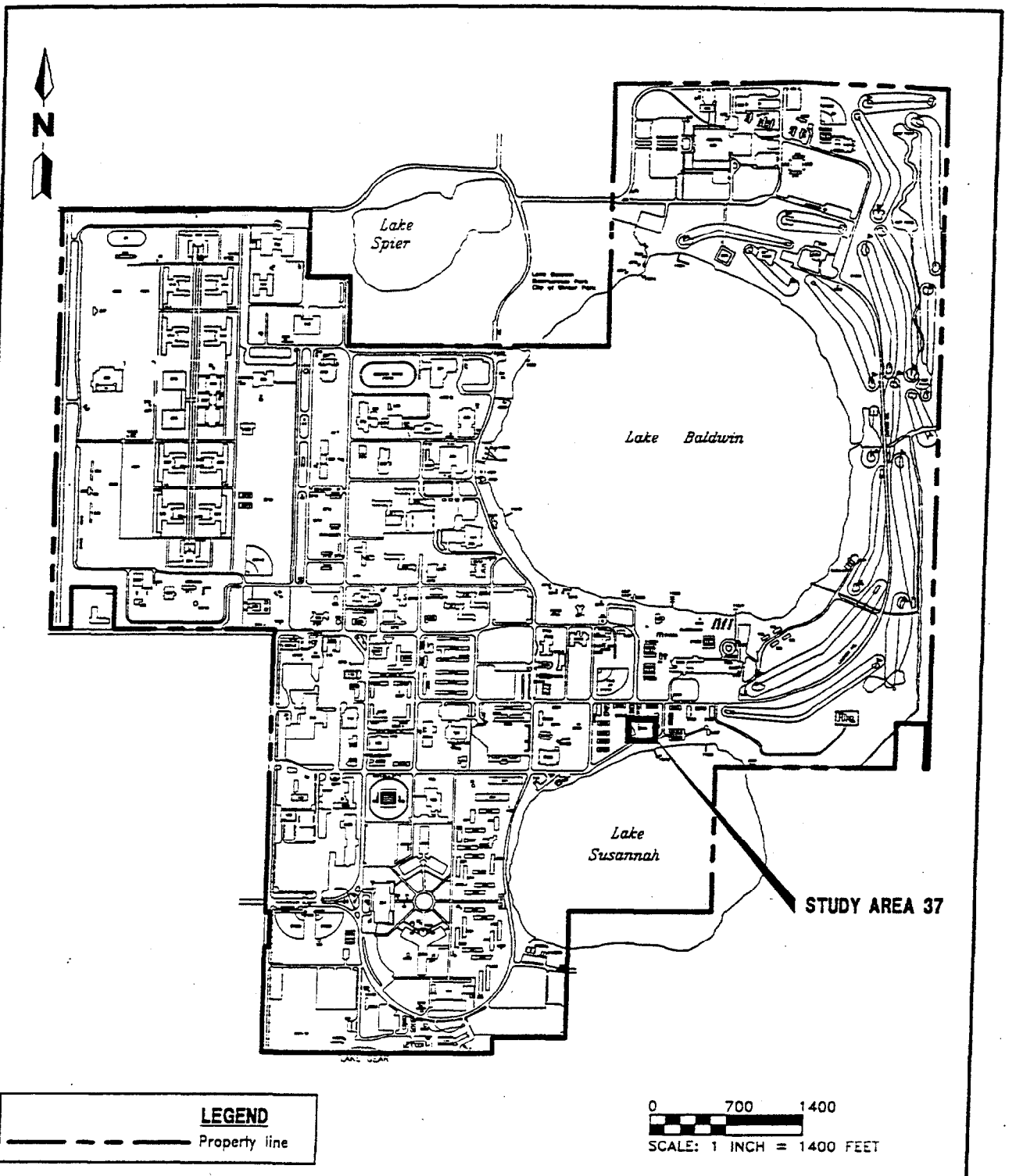


FIGURE 1
LOCATION OF STUDY AREA 37

K:\02530\02530-04\ICA\02530775.DWG, BB-PDP 09/14/98 17:44:54, AutoCAD R14

BASE REALIGNMENT AND CLOSURE WORK PLAN FOR INTERIM REMEDIAL ACTION, STUDY AREA 37

NAVAL TRAINING CENTER ORLANDO, FLORIDA

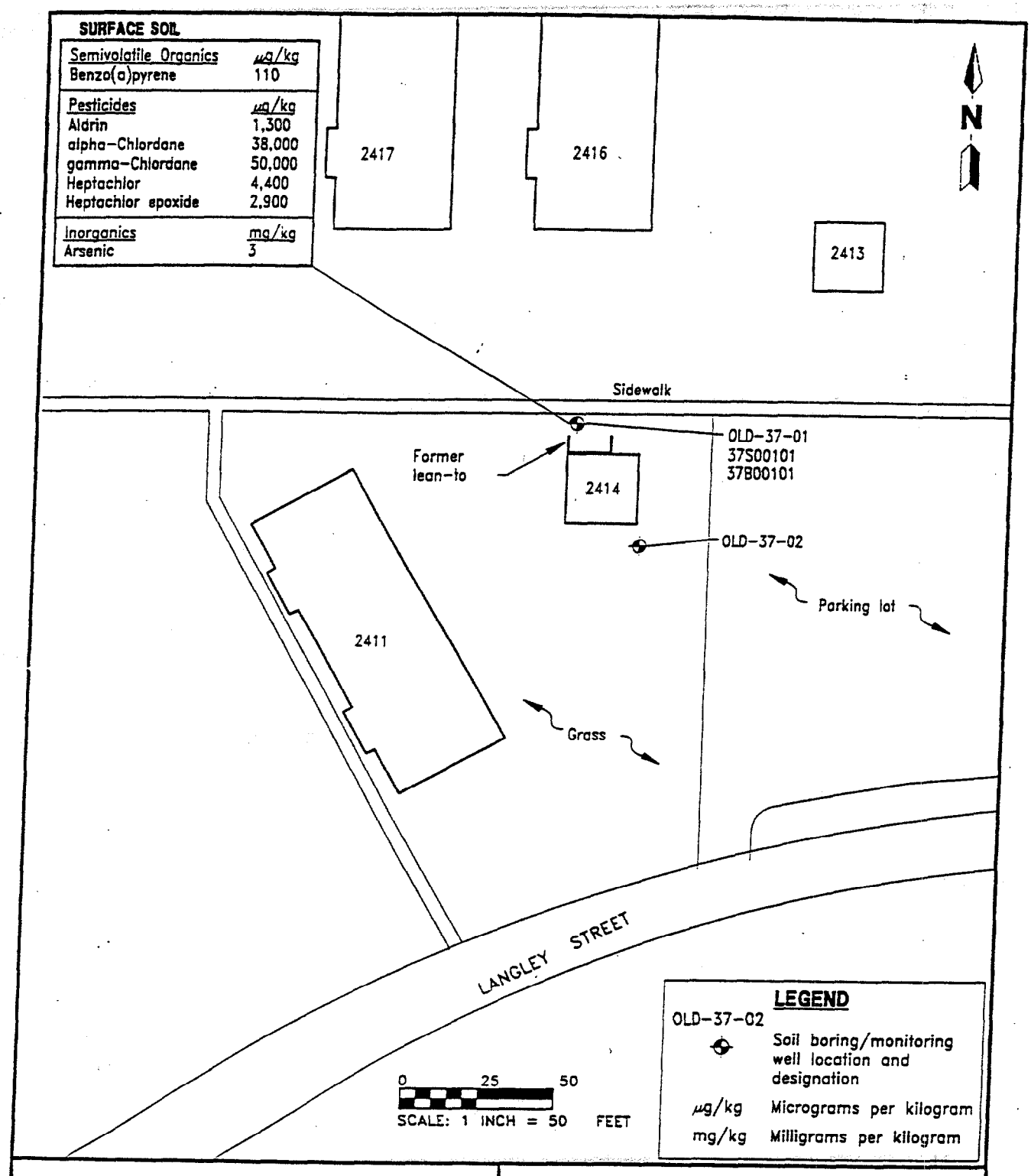


FIGURE 2
STUDY AREA 37 INITIAL SCREENING LOCATIONS, BUILDING 2414

K:\025301025301-04\UCA\025307777.DWG, BB-PDP 09/15/98 11:26:16, AutoCAD R14

BASE REALIGNMENT AND CLOSURE WORK PLAN FOR INTERIM REMEDIAL ACTION, STUDY AREA 37

NAVAL TRAINING CENTER ORLANDO, FLORIDA

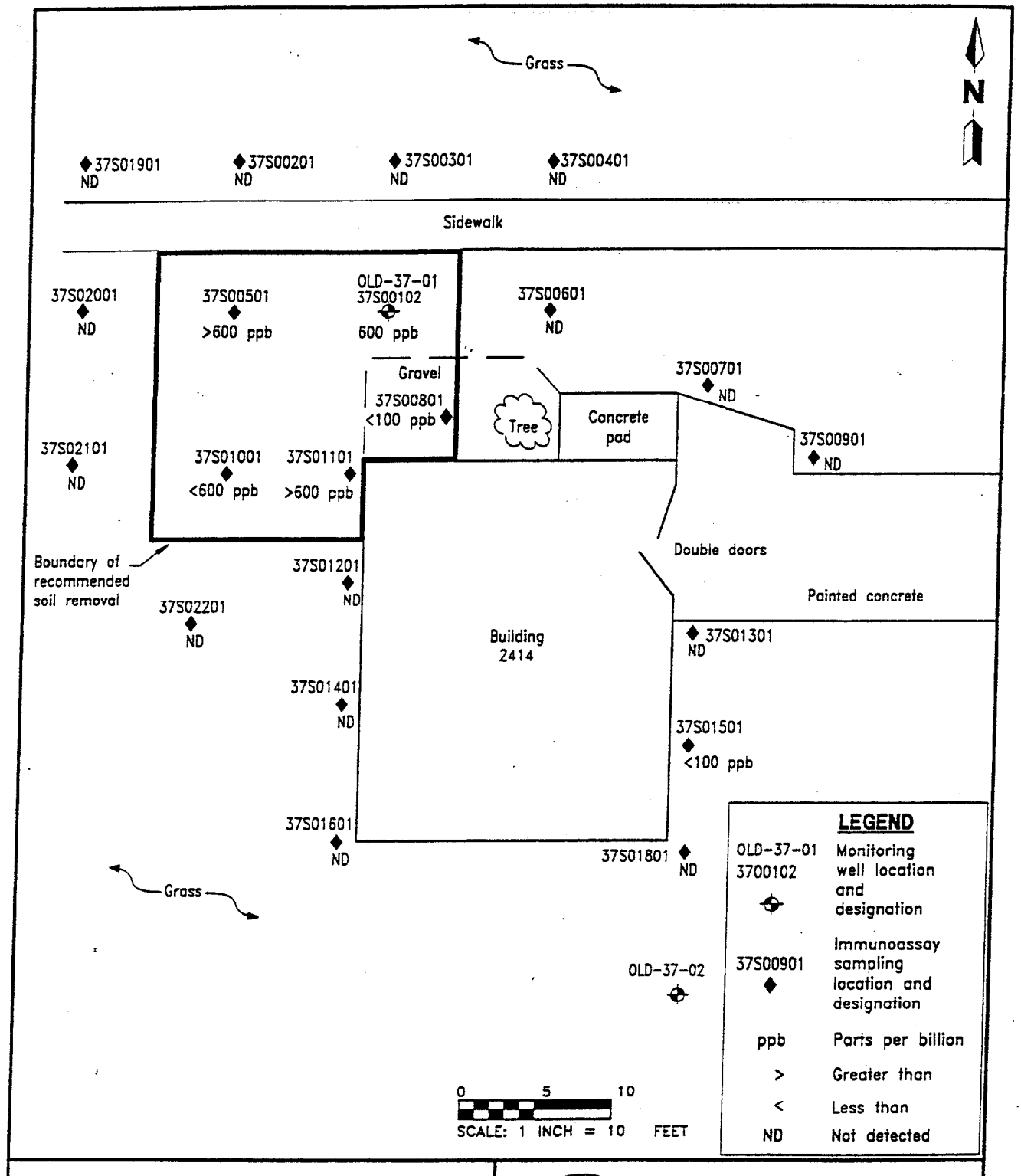
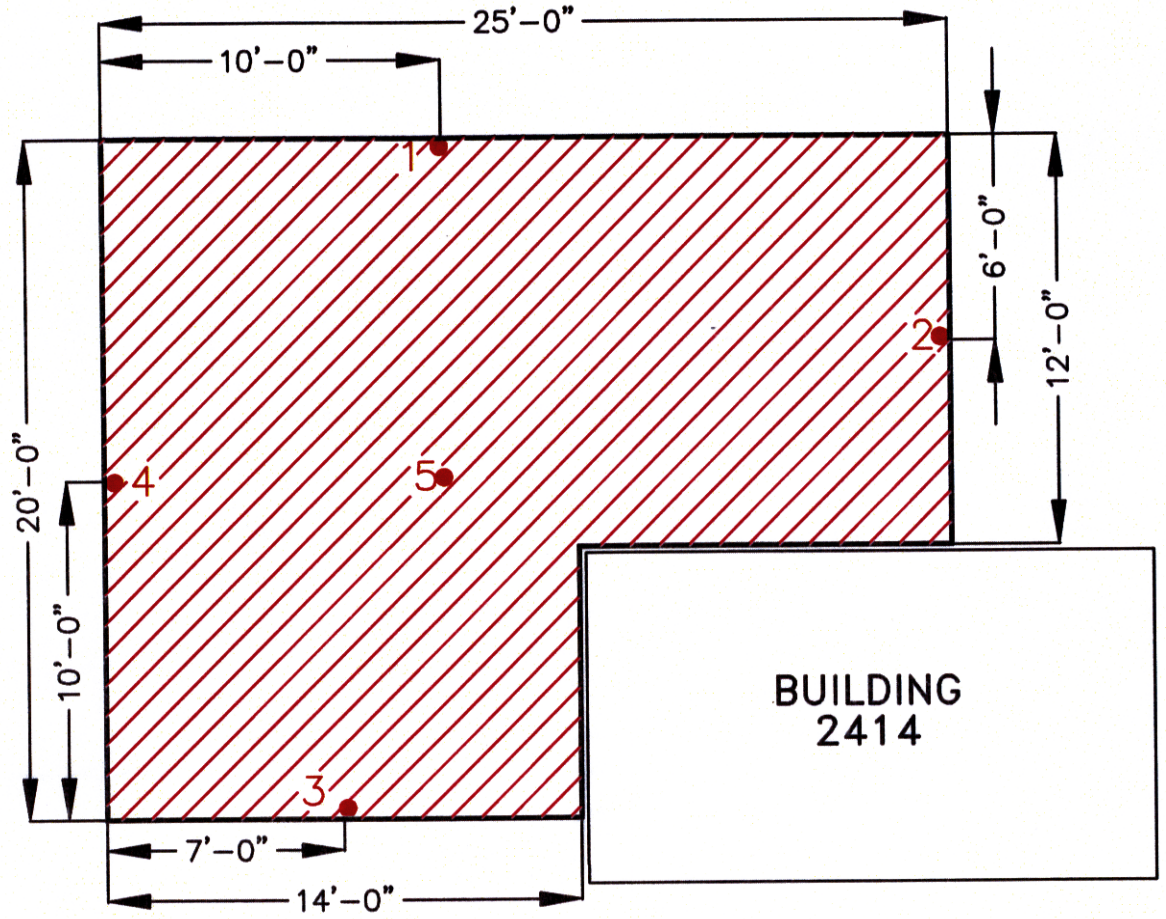


FIGURE 3
IMMUNOASSAY SAMPLING LOCATIONS AND SOIL REMOVAL BOUNDARY

K:\02530\02530-04\ICA\02530776.DWG, -PDP 09/16/98 08:50:54, AutoCAD R14

BASE REALIGNMENT AND CLOSURE WORK PLAN FOR INTERIM REMEDIAL ACTION, STUDY AREA 37

NAVAL TRAINING CENTER ORLANDO, FLORIDA



LEGEND

1 ● CONFIRMATORY SAMPLE ID 99SPORT0161-10

2 ● CONFIRMATORY SAMPLE ID SA37S02

3 ● CONFIRMATORY SAMPLE ID 99SPORT0161-12

4 ● CONFIRMATORY SAMPLE ID 99SPORT0161-13

5 ● CONFIRMATORY SAMPLE ID 99SPORT0161-14

▨ EXCAVATED TO 2 FEET DEEP

N

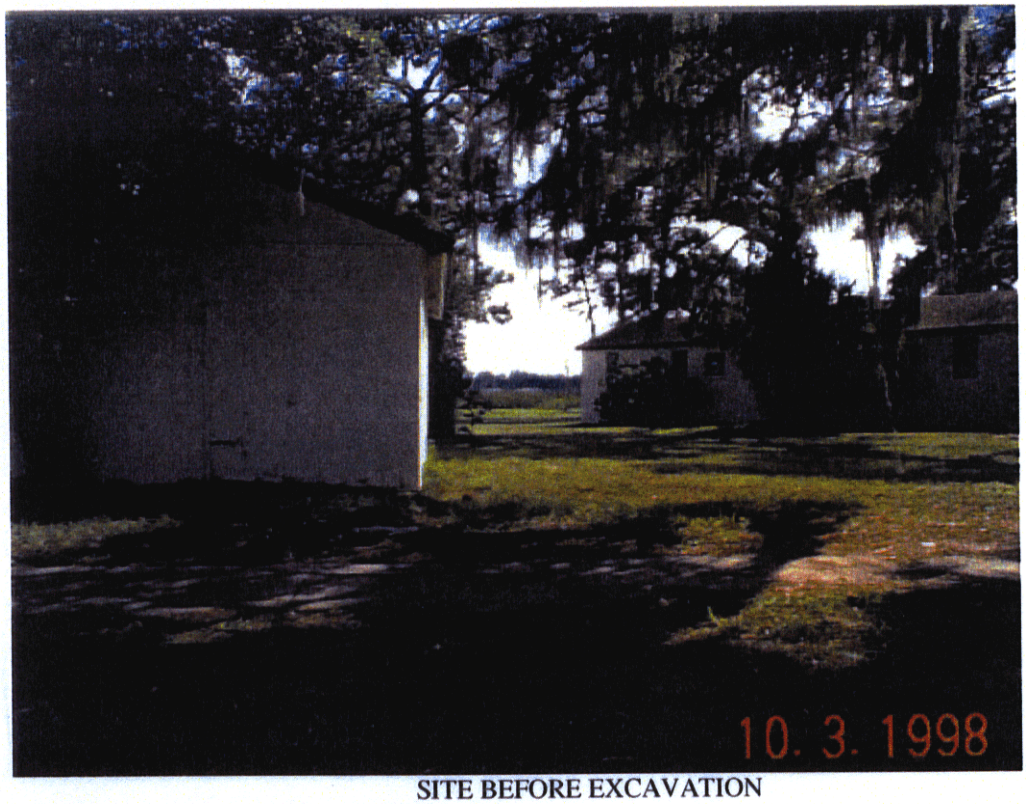
ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE – BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 4
NAVAL TRAINING CENTER ORLANDO SA 37
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS

DATE:	PREPARED BY:	REV
12 AUGUST 1999	A. J. MOYER	–

SCALE: NONE | SHEET: –

00449E10Y



SITE BEFORE EXCAVATION

SITE AFTER BACKFILL

0044FB114

SITE AFTER SEEDING

CONFIRMATION SAMPLES

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 05, 1999

Sample ID : 99SPORT0161-10
Lab ID : 9904953-10
Matrix : Soil
Date Collected : 04/29/99
Date Received : 04/30/99
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Pesticides - 21 items											
4,4'-DDD	U	ND	2.98	6.66	ug/kg	5.0	SJ	05/04/99	1743	148068	1
4,4'-DDE	U	ND	2.78	6.66	ug/kg	5.0					
4,4'-DDT	U	ND	4.03	6.66	ug/kg	5.0					
Aldrin	U	ND	1.32	3.33	ug/kg	5.0					
Dieldrin	U	ND	3.71	6.66	ug/kg	5.0					
Endosulfan I	U	ND	2.30	3.33	ug/kg	5.0					
Endosulfan II	U	ND	3.45	6.66	ug/kg	5.0					
Endosulfan sulfate	U	ND	4.61	4.61	ug/kg	5.0					
Endrin	U	ND	3.45	6.66	ug/kg	5.0					
Endrin aldehyde	U	ND	5.03	6.66	ug/kg	5.0					
Endrin ketone	U	ND	4.08	6.66	ug/kg	5.0					
Heptachlor	U	ND	2.20	3.33	ug/kg	5.0					
Heptachlor epoxide	U	ND	1.10	3.33	ug/kg	5.0					
Methoxychlor	U	ND	18.0	33.3	ug/kg	5.0					
Toxaphene	U	ND	55.4	167	ug/kg	5.0					
alpha-BHC	U	ND	1.33	3.33	ug/kg	5.0					
alpha-Chlordane	U	ND	2.23	3.33	ug/kg	5.0					
beta-BHC	U	ND	1.96	3.33	ug/kg	5.0					
delta-BHC	U	ND	1.43	3.33	ug/kg	5.0					
gamma-BHC	U	ND	1.76	3.33	ug/kg	5.0					
gamma-Chlordane	U	ND	2.36	3.33	ug/kg	5.0					

The following prep procedures were performed:

Pesticides							RDH	05/03/99	1000	148068	2

9904953-10

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8745
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 05, 1999

Sample ID : 99SPORT0161-10

Surrogate Recovery	Test	Percent%	Acceptable Limits
4CMX	PEST-8081A	60.0	(36.5 - 131.)
Decachlorobiphenyl	PEST-8081A	71.2	(50.7 - 135.)

M = Method	Method-Description
M 1	EPA 8081A
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 05, 1999

Sample ID : 99SPORT0161-12
Lab ID : 9904953-12
Matrix : Soil
Date Collected : 04/29/99
Date Received : 04/30/99
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Pesticides - 21 items											
4,4'-DDD	U	ND	5.96	13.3	ug/kg	10.	SJ	05/04/99	1837	148068	1
4,4'-DDE	U	ND	5.56	13.3	ug/kg	10.					
4,4'-DDT	U	ND	8.06	13.3	ug/kg	10.					
Aldrin	U	ND	2.63	6.66	ug/kg	10.					
Dieldrin	U	ND	7.43	13.3	ug/kg	10.					
Endosulfan I	U	ND	4.60	6.66	ug/kg	10.					
Endosulfan II	U	ND	6.89	13.3	ug/kg	10.					
Endosulfan sulfate	U	ND	9.22	9.22	ug/kg	10.					
Endrin	U	ND	6.89	13.3	ug/kg	10.					
Endrin aldehyde	U	ND	10.1	13.3	ug/kg	10.					
Endrin ketone	U	ND	8.16	13.3	ug/kg	10.					
Heptachlor	U	ND	4.40	6.66	ug/kg	10.					
Heptachlor epoxide	U	ND	2.20	6.66	ug/kg	10.					
Methoxychlor	U	ND	35.9	66.6	ug/kg	10.					
Toxaphene	U	ND	111	333	ug/kg	10.					
alpha-BHC	U	ND	2.66	6.66	ug/kg	10.					
alpha-Chlordane	U	ND	4.46	6.66	ug/kg	10.					
beta-BHC	U	ND	3.93	6.66	ug/kg	10.					
delta-BHC	U	ND	2.86	6.66	ug/kg	10.					
gamma-BHC	U	ND	3.53	6.66	ug/kg	10.					
gamma-Chlordane	U	ND	4.73	6.66	ug/kg	10.					

The following prep procedures were performed:

Pesticides							RDH	05/03/99	1000	148068	2

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 05, 1999

Sample ID : 99SPORT0161-12

Surrogate Recovery	Test	Percent %	Acceptable Limits
4CMX	PEST-8081A	71.5	(36.5 - 131.)
Decachlorobiphenyl	PEST-8081A	79.0	(50.7 - 135.)

M = Method	Method-Description
M 1	EPA 8081A
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 05, 1999

Sample ID : 99SPORT0161-13
Lab ID : 9904953-13
Matrix : Soil
Date Collected : 04/29/99
Date Received : 04/30/99
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Pesticides - 21 items											
4,4'-DDD	U	ND	0.596	1.33	ug/kg	1.0	SJ	05/04/99	1904	148068	
4,4'-DDE	U	ND	0.556	1.33	ug/kg	1.0					
4,4'-DDT		2.23	0.806	1.33	ug/kg	1.0					
Aldrin	U	ND	0.263	0.670	ug/kg	1.0					
Dieldrin	U	ND	0.743	1.33	ug/kg	1.0					
Endosulfan I	U	ND	0.460	0.670	ug/kg	1.0					
Endosulfan II	U	ND	0.689	1.33	ug/kg	1.0					
Endosulfan sulfate	U	ND	0.922	0.922	ug/kg	1.0					
Endrin	U	ND	0.689	1.33	ug/kg	1.0					
Endrin aldehyde	U	ND	1.01	1.33	ug/kg	1.0					
Endrin ketone	U	ND	0.816	1.33	ug/kg	1.0					
Heptachlor	U	ND	0.440	0.670	ug/kg	1.0					
Heptachlor epoxide	U	ND	0.220	0.670	ug/kg	1.0					
Methoxychlor	U	ND	3.59	6.70	ug/kg	1.0					
Toxaphene	U	ND	11.1	33.3	ug/kg	1.0					
alpha-BHC	U	ND	0.266	0.670	ug/kg	1.0					
alpha-Chlordane	U	ND	0.446	0.670	ug/kg	1.0					
beta-BHC	U	ND	0.393	0.670	ug/kg	1.0					
delta-BHC	U	ND	0.286	0.670	ug/kg	1.0					
gamma-BHC	U	ND	0.353	0.670	ug/kg	1.0					
gamma-Chlordane	U	ND	0.473	0.670	ug/kg	1.0					

The following prep procedures were performed:

Pesticides							RDH	05/03/99	1000	148068	

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9904953-13

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 05, 1999

Sample ID : 99SPORT0161-13

Surrogate Recovery	Test	Percent%	Acceptable Limits
4CMX	PEST-8081A	78.5	(36.5 - 131.)
Decachlorobiphenyl	PEST-8081A	79.5	(50.7 - 135.)

M = Method	Method-Description
M 1	EPA 8081A
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9904953-13

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8745
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 05, 1999

Sample ID : 99SPORT0161-14
Lab ID : 9904953-14
Matrix : Soil
Date Collected : 04/29/99
Date Received : 04/30/99
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Pesticides - 21 items											
.4'-DDD	U	ND	0.596	1.33	ug/kg	1.0	SJ	05/04/99	1932	148068	1
,4'-DDE	U	ND	0.556	1.33	ug/kg	1.0					
4.4'-DDT	J	1.18	0.806	1.33	ug/kg	1.0					
Aldrin	U	ND	0.263	0.670	ug/kg	1.0					
Dieldrin	U	ND	0.743	1.33	ug/kg	1.0					
Endosulfan I	U	ND	0.460	0.670	ug/kg	1.0					
Endosulfan II	U	ND	0.689	1.33	ug/kg	1.0					
Endosulfan sulfate	U	ND	0.922	0.922	ug/kg	1.0					
Endrin	U	ND	0.689	1.33	ug/kg	1.0					
Endrin aldehyde	U	ND	1.01	1.33	ug/kg	1.0					
Endrin ketone	U	ND	0.816	1.33	ug/kg	1.0					
Heptachlor	U	ND	0.440	0.670	ug/kg	1.0					
Heptachlor epoxide	U	ND	0.220	0.670	ug/kg	1.0					
Methoxychlor	U	ND	3.59	6.70	ug/kg	1.0					
Toxaphene	U	ND	11.1	33.3	ug/kg	1.0					
alpha-BHC	U	ND	0.266	0.670	ug/kg	1.0					
alpha-Chlordane	U	ND	0.446	0.670	ug/kg	1.0					
beta-BHC	U	ND	0.393	0.670	ug/kg	1.0					
delta-BHC	U	ND	0.286	0.670	ug/kg	1.0					
gamma-BHC	U	ND	0.353	0.670	ug/kg	1.0					
gamma-Chlordane	U	ND	0.473	0.670	ug/kg	1.0					

The following prep procedures were performed:

Pesticides							RDH	05/03/99	1000	148068	2

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9904953-14

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 05, 1999

Sample ID : 99SPORT0161-14

Surrogate Recovery	Test	Percent%	Acceptable Limits
4CMX	PEST-8081A	74.5	(36.5 - 131.)
Decachlorobiphenyl	PEST-8081A	62.1	(50.7 - 135.)

M = Method	Method-Description
M 1	EPA 8081A
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

— 3-DAY TURNAROUND —

General Engineering Lab ies, Inc.
2040 Savage Road
Charleston, South Carolin. 407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

CHAIN OF CUSTODY RECORD

Page 1 of 2

Client Name/Facility Name: NTC Orlando SA42&37

Collected by/Company: ENV DET CHASN

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide 8081	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	PAH 8310	Remarks
99Sport 0161-1	4/29/99	1300		X		X	1																X	SA42S002 Location
99Sport 0161-2	4/29/99	1310		X		X	1																X	1
99Sport 0161-3	4/29/99	1325		X		X	1																X	
99Sport 0161-4	4/29/99	1335		X		X	1																X	
99Sport 0161-5	4/29/99	1400		X		X	1																X	SA42S001 Location
99Sport 0161-6	4/29/99	1409		X		X	1																X	
99Sport 0161-7	4/29/99	1420		X		X	1																X	
99Sport 0161-8	4/29/99	1430		X		X	1																X	
99Sport 0161-9	4/29/99	1435	X				2																X	Field Blank SA-42S001 Location SA42F-0161-9
99Sport 0161-10	4/29/99	1450		X		X	1								X									SA-37 Location
99Sport 0161-11	4/29/99	1500		X		X	1								X									
99Sport 0161-12	4/29/99	1509		X		X	1								X									
99Sport 0161-13	4/29/99	1517		X		X	1								X									

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

Relinquished by:	Date:	Time:	Received by:
K W Cope	4/29/99	1800	RWC Michael P. Schuler
Relinquished by:	Date:	Time:	Received by lab by:

Relinquished by:	Date:	Time:	Received by:
Michael P. Schuler	4/30/99	1145	
Date: 4-30-99	Time: 1145	Remarks:	

White = collector Yellow = file Pink = with report

— 3 DAY TU AROUND

CHAIN OF CUSTODY RECORD

2040 Savage Road
Charleston, South Carolina
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Client Name/Facility Name: NTC ORLando SA-42+37

Collected by/Company: ENV DET CHASN

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide 8081	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Remarks
99Sport0161-14	4/29/99	1525		X		X	1								X								SA-37 Location

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
K W Cope	4/29/99	1800	Michael P. Schuler	Michael P. Schuler	4/30/99	1145	
Relinquished by:	Date:	Time:	Received by lab by:	Date:	Time:	Remarks:	
				4-30-99	1145		

White = e collector Yellow = file Pink = with report

Client:	Environmental Detachment Charleston	Report #:	OR6460
		Date Submitted:	3-May-99
		Date Reported:	6-May-99
Address:	1899 N. Hobson Ave	Project #:	SA
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6460-9	SA37S02	5/1/99 12:10	8081	alpha-BHC	1.8	U		µg/Kg	1.8	1.8
OR6460-9	SA37S02	5/1/99 12:10	8081	beta-BHC	1.8	U		µg/Kg	1.8	1.8
OR6460-9	SA37S02	5/1/99 12:10	8081	gamma-BHC (Lindane)	1.8	U		µg/Kg	1.8	1.4
OR6460-9	SA37S02	5/1/99 12:10	8081	Heptachlor	1.8	U		µg/Kg	1.8	1.8
OR6460-9	SA37S02	5/1/99 12:10	8081	delta-BHC	1.8	U		µg/Kg	1.8	1.8
OR6460-9	SA37S02	5/1/99 12:10	8081	Aldrin	1.8	U		µg/Kg	1.8	0.35
OR6460-9	SA37S02	5/1/99 12:10	8081	Heptachlor Epoxide	1.8	U		µg/Kg	1.8	1.4
OR6460-9	SA37S02	5/1/99 12:10	8081	Chlordane gamma	3.5			µg/Kg	1.8	0.3
OR6460-9	SA37S02	5/1/99 12:10	8081	Chlordane alpha	3.5			µg/Kg	1.8	0.35
OR6460-9	SA37S02	5/1/99 12:10	8081	Endosulfan I	1.8	U		µg/Kg	1.8	1.8
OR6460-9	SA37S02	5/1/99 12:10	8081	4,4'-DDE	1.8	U		µg/Kg	1.8	1.8
OR6460-9	SA37S02	5/1/99 12:10	8081	Dieldrin	1.8	U		µg/Kg	1.8	1.8
OR6460-9	SA37S02	5/1/99 12:10	8081	Endrin	1.8	U		µg/Kg	1.8	1.8
OR6460-9	SA37S02	5/1/99 12:10	8081	4,4'-DDD	3	I		µg/Kg	1.8	1.4
OR6460-9	SA37S02	5/1/99 12:10	8081	Endosulfan II	1.8	U		µg/Kg	1.8	1.8
OR6460-9	SA37S02	5/1/99 12:10	8081	4,4'-DDT	5	I		µg/Kg	1.8	1.8
OR6460-9	SA37S02	5/1/99 12:10	8081	Endrin aldehyde	1.8	U		µg/Kg	1.8	1.4
OR6460-9	SA37S02	5/1/99 12:10	8081	Endosulfan sulfate	1.8	U		µg/Kg	1.8	0.72
OR6460-9	SA37S02	5/1/99 12:10	8081	Methoxychlor	11	U		µg/Kg	2	11
OR6460-9	SA37S02	5/1/99 12:10	8081	Endrin Ketone	2.5	U		µg/Kg	1.8	2.5
OR6460-9	SA37S02	5/1/99 12:10	8081	Chlordane (Total)	110			µg/Kg	36	1.8
OR6460-9	SA37S02	5/1/99 12:10	8081	Toxaphene	72	U		µg/Kg	72	3.5
OR6460-9	SA37S02	5/1/99 12:10	8081	Isodrin	3.5	U		µg/Kg	3.5	3.5
OR6460-9	SA37S02	5/1/99 12:10	8081	Mirex	3.5	U		µg/Kg	3.5	3.5
OR6460-9	SA37S02	5/1/99 12:10	8081	2,4,5,6-TCMX	86			%		
OR6460-9	SA37S02	5/1/99 12:10	8081	DBC	108			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6460-9	SA37S02	5/1/99 12:10	SM2540G	Percent Solids	93			%		

U = Compound was analyzed for but not detected to the level shown.
I = Analyte deteched; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

COC #_____

PROJECT REFERENCE: NTC ORlando	PROJECT NO.: SA	P.O. NUMBER:	PAGE: OF
PROJECT LOC. (State): FL	SAMPLER(s) NAME: Rusty Cope	PHONE: 496-2173 / FAX:	☐ STANDARD REPORT DELIVERY ☑ EXPEDITED REPORT DELIVERY (surcharge)
CLIENT NAME: ENV DET CHASN	CLIENT PROJECT MANAGER: A Moyer		Date Due: 5/5/99
CLIENT ADDRESS (CITY, STATE, ZIP): 1879 N Hobson Ave, N Charleston, SC 29405			

SAMPLE STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	MATRIX TYPE: SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	REQUIRED ANALYSIS: FLTRPH	Arsenic (TCP)	TOX 8081 Pesticides	NUMBER OF CONTAINERS SUBMITTED	REMARKS
1	5/1/99	1100	X		SA35SI23 ✓					X								1	
2	5/1/99	1110	X		SA35SI24 ✓					X								1	
3	5/1/99	1118	X		SA35SI25 ✓					X								1	Duplicate of SA35 SI22
4	5/1/99	1125	X		SA35SG26 ✓					X								1	
5	5/1/99	1134	X		SA35SG27 ✓					X								1	
6	5/1/99	1141	X		SA35SG28 ✓					X								1	
7	5/1/99	1150	X		SA35SG29 ✓					X								1	
8	5/1/99	1200	X		SA37S01 ✓					X					RWC+			1	
9	5/1/99	1210	X		SA37S02 ✓					X					RWC+			1	
10	5/1/99	1218	X		SA37S03 ✓					X					RWC+			1	
11	5/1/99	1226	X		SA37S04 ✓					X					RWC+			1	
12	5/1/99	1300	X		SA8S019 ✓													1	
13	5/1/99	1310	X		SA8S020 ✓													1	
14																			

	DATE	TIME		DATE	TIME		DATE	TIME
SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO			RELINQUISHED BY: (SIGNATURE) RW Cope	5/3/99	1445	RECEIVED BY: (SIGNATURE) Gerald Gregory	5/3/99	1445
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO	REMARKS
☐ Jacksonville ☒ Orlando	5/3/99	3:30pm	☐ YES ☒ NO	OR6420	

STUDY AREA 40

1. INTRODUCTION

1.1 STUDY AREA 40

SA 40 is located on the Main Base, Naval Training Center, Orlando (Figure 1). It consists of a open field between Maguire Boulevard and Nautilus Street (Figure 2).

1.2 SA 40 INTERIM REMEDIAL ACTION

SOUTHDIV tasked the DET to perform an IRA for this site. The objective of the IRA was to excavate and dispose of soil contaminated with PAHs and arsenic. The excavation was to continue until the sampling program indicated with reasonable confidence that the concentrations of contaminants at the site were less than the residential limits specified by FDEP SCG, dated 30 April 1998 or USEPA Region III, dated 01 October 1998, whichever specifies the stricter criteria.

1.2.1 SA 40 Interim Remedial Action Execution Summary

The execution of this IRA consisted of excavating an irregular shaped area approximately 250′ x 300′ to a depth of 2′ (Figure 3) and a area 10′ x 10′ to a depth of 2′ at sample location 40S028 (Figure 4). Soil removed from the site was characterized as non-hazardous and was sent to a permitted Subtitle D landfill. Confirmation samples were collected from each sidewall upon completion of the large excavation and tested for PAHs and arsenic. The results of these samples were either less than the RGOs or were less than three times the RGOs. Upon completion of excavation of sample location 40S028, a confirmation sample was taken from each sidewall and tested for arsenic. The results of these samples were all less than the RGOs.

2.0 INTERIM REMEDIAL ACTION EXCECUTION

2.1 ACTIONS PERFORMED BY THE INTERIM REMEDIAL ACTION WORK PLAN

Actions performed are listed below

- Collection of a waste characterization samples
- Removal of fencing
- Installation of 800 feet of silt fencing
- Excavation and disposal of approximately 7,916 tons of soil
- Collection of confirmatory samples from each sidewall for analysis of PAHs and/or arsenic
- Restoration of site by backfilling, grading to surrounding area, and hydroseeding

2.2 OBSERVATIONS NOTES

2.2.1 Soil Conditions

From ground surface to the bottom of the excavation the soil was white sugar sand.

2.3 PLAN MODIFICATIONS AND JUSTIFICATION

- Original scope of work intended the soils from SA 40 to be reused at Operable Unit (OU) 2 at the McCoy Annex. Upon the start of excavation the DET unearthed some debris. The DET trenched approximately 40 openings on a 50' grid throughout excavation area to allow for visual inspections. The OPT was informed and conducted a site visit. The OPT informed the DET that the soils from SA 40 were not suitable for reuse at OU2 and that the soils should be disposed of. All soils from SA 40 were disposed of to a permitted Subtitle D landfill.

- The OPT instructed the DET to excavate areas with any visual debris remaining on any sidewall and to provide a drawing of the debris area. The excavated debris area is shown in Figure 5.

3.0 INTERIM REMEDIAL ACTION OUTCOME

3.1 SITE CONDITIONS FOLLOWING COMPLETION OF WORK

Following completion of work, the DET had removed 7,916 tons of PAH/arsenic contaminated soil. The site was backfilled, graded to surrounding area and hydroseeded. Site photographs are included in Appendix F1.

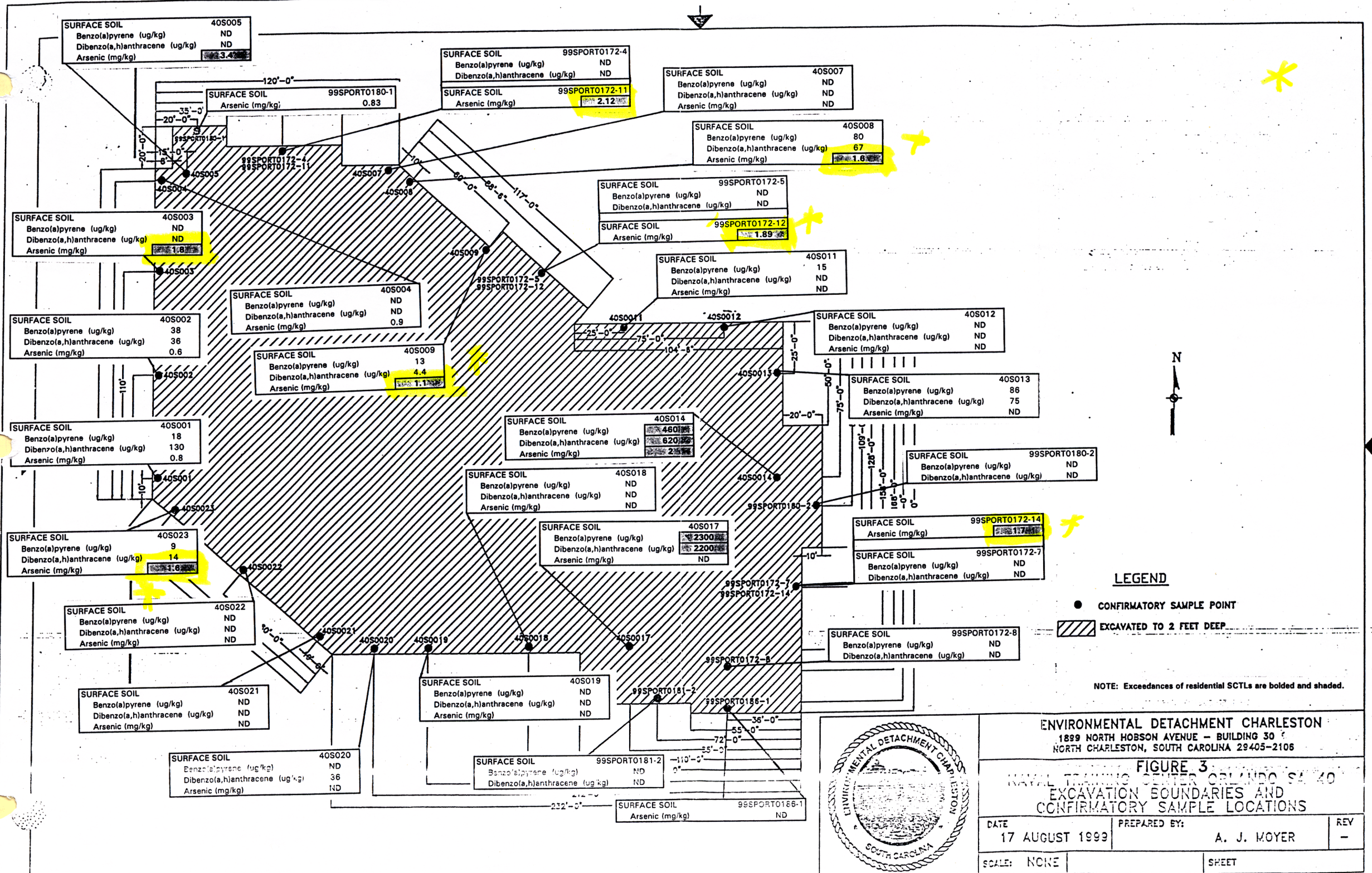
4.0 SAMPLING

4.1 CONFIRMATION SAMPLING

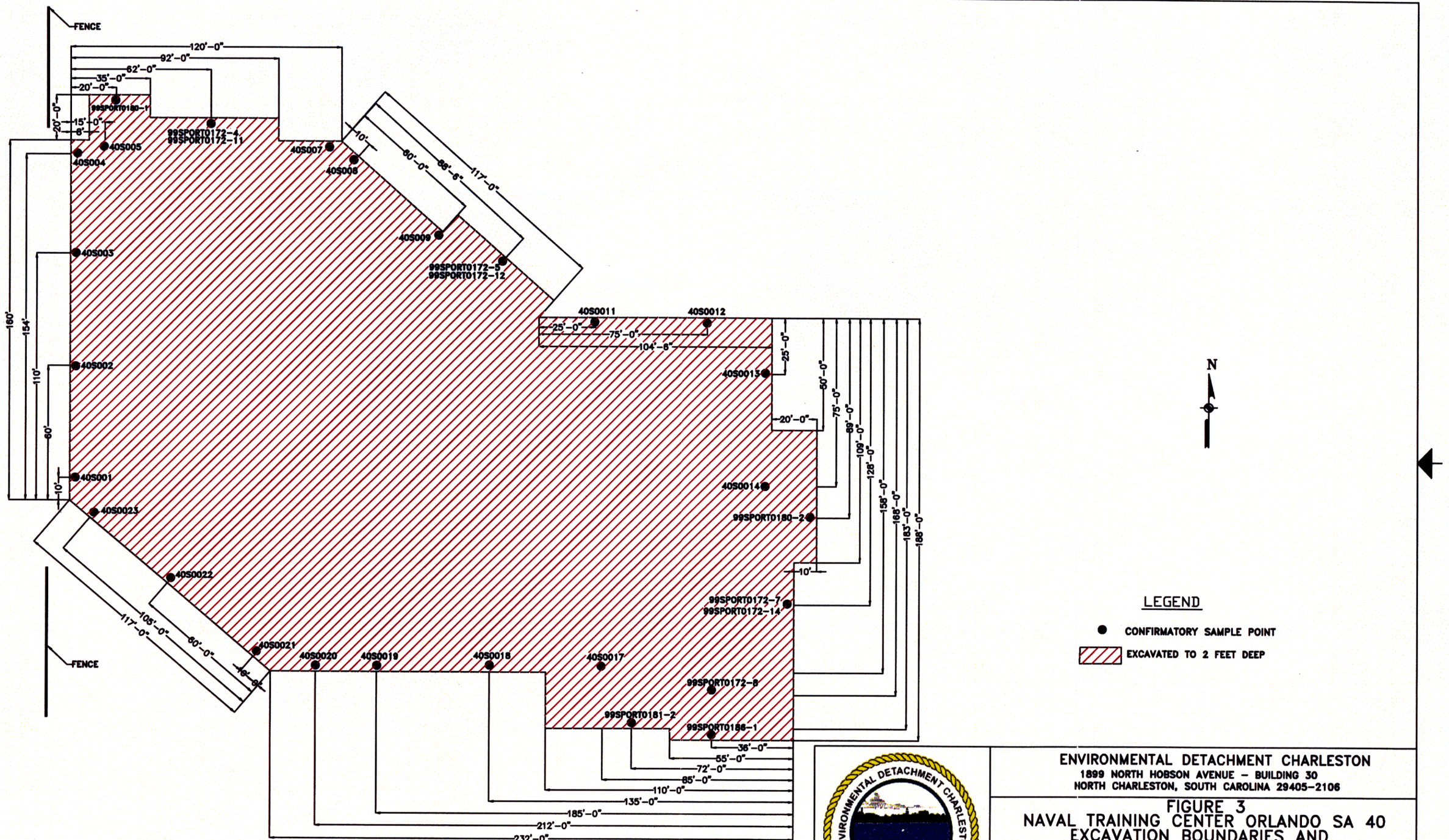
Upon completion of work in the large area, confirmation samples were taken on each sidewall and tested for PAHs and arsenic (Figure 3). Upon completion of work at sample location 40S028, a confirmation sample was taken on each sidewall and tested for arsenic (Figure 4). See appendix F2 for sampling documentation.

4.2 WASTE CHARACTERIZATION SAMPLING

Waste characterization samples (samples SA40S025 thru 31 were taken and analyzed for TCLP metals and samples SA40S36 thru 49 were taken and analyzed for VOC 8021). Hydraulic oil removed from lift pits was analyzed for PCBs. See appendix F2 for sampling documentation.


SURFACE SOIL 40S005
Benzo(a)pyrene (ug/kg) ND
Dibenzo(a,h)anthracene (ug/kg) ND
Arsenic (mg/kg) 3.4
SURFACE SOIL 99SPORT0180-1
Arsenic (mg/kg) 0.83
SURFACE SOIL 99SPORT0172-4
Benzo(a)pyrene (ug/kg) ND
Dibenzo(a,h)anthracene (ug/kg) ND
SURFACE SOIL 99SPORT0172-11
Arsenic (mg/kg) 2.12
SURFACE SOIL 40S007
Benzo(a)pyrene (ug/kg) ND
Dibenzo(a,h)anthracene (ug/kg) ND
Arsenic (mg/kg) ND
SURFACE SOIL 40S008
Benzo(a)pyrene (ug/kg) 80
Dibenzo(a,h)anthracene (ug/kg) 67
Arsenic (mg/kg) 1.8
SURFACE SOIL 99SPORT0172-5
Benzo(a)pyrene (ug/kg) ND
Dibenzo(a,h)anthracene (ug/kg) ND
SURFACE SOIL 99SPORT0172-12
Arsenic (mg/kg) 1.89
SURFACE SOIL 40S003
Benzo(a)pyrene (ug/kg) ND
Dibenzo(a,h)anthracene (ug/kg) ND
Arsenic (mg/kg) 1.8
SURFACE SOIL 40S011
Benzo(a)pyrene (ug/kg) 15
Dibenzo(a,h)anthracene (ug/kg) ND
Arsenic (mg/kg) ND
SURFACE SOIL 40S004
Benzo(a)pyrene (ug/kg) ND
Dibenzo(a,h)anthracene (ug/kg) ND
Arsenic (mg/kg) 0.9
SURFACE SOIL 40S012
Benzo(a)pyrene (ug/kg) ND
Dibenzo(a,h)anthracene (ug/kg) ND
Arsenic (mg/kg) ND
SURFACE SOIL 40S002
Benzo(a)pyrene (ug/kg) 38
Dibenzo(a,h)anthracene (ug/kg) 36
Arsenic (mg/kg) 0.6
SURFACE SOIL 40S009
Benzo(a)pyrene (ug/kg) 13
Dibenzo(a,h)anthracene (ug/kg) 4.4
Arsenic (mg/kg) 1.1
SURFACE SOIL 40S013
Benzo(a)pyrene (ug/kg) 86
Dibenzo(a,h)anthracene (ug/kg) 75
Arsenic (mg/kg) ND
SURFACE SOIL 40S014
Benzo(a)pyrene (ug/kg) 460
Dibenzo(a,h)anthracene (ug/kg) 620
Arsenic (mg/kg) 2
SURFACE SOIL 99SPORT0180-2
Benzo(a)pyrene (ug/kg) ND
Dibenzo(a,h)anthracene (ug/kg) ND
SURFACE SOIL 40S001
Benzo(a)pyrene (ug/kg) 18
Dibenzo(a,h)anthracene (ug/kg) 130
Arsenic (mg/kg) 0.8
SURFACE SOIL 40S018
Benzo(a)pyrene (ug/kg) ND
Dibenzo(a,h)anthracene (ug/kg) ND
Arsenic (mg/kg) ND
SURFACE SOIL 40S017
Benzo(a)pyrene (ug/kg) 2300
Dibenzo(a,h)anthracene (ug/kg) 2200
Arsenic (mg/kg) ND
SURFACE SOIL 99SPORT0172-14
Arsenic (mg/kg) 117
SURFACE SOIL 99SPORT0172-7
Benzo(a)pyrene (ug/kg) ND
Dibenzo(a,h)anthracene (ug/kg) ND
SURFACE SOIL 40S023
Benzo(a)pyrene (ug/kg) 9
Dibenzo(a,h)anthracene (ug/kg) 14
Arsenic (mg/kg) 1.6
SURFACE SOIL 40S022
Benzo(a)pyrene (ug/kg) ND
Dibenzo(a,h)anthracene (ug/kg) ND
Arsenic (mg/kg) ND
SURFACE SOIL 99SPORT0172-8
Benzo(a)pyrene (ug/kg) ND
Dibenzo(a,h)anthracene (ug/kg) ND
SURFACE SOIL 40S021
Benzo(a)pyrene (ug/kg) ND
Dibenzo(a,h)anthracene (ug/kg) ND
Arsenic (mg/kg) ND
SURFACE SOIL 40S019
Benzo(a)pyrene (ug/kg) ND
Dibenzo(a,h)anthracene (ug/kg) ND
Arsenic (mg/kg) ND
SURFACE SOIL 40S020
Benzo(a)pyrene (ug/kg) ND
Dibenzo(a,h)anthracene (ug/kg) 36
Arsenic (mg/kg) ND
SURFACE SOIL 99SPORT0181-2
Benzo(a)pyrene (ug/kg) ND
Dibenzo(a,h)anthracene (ug/kg) ND
SURFACE SOIL 99SPORT0186-1
Arsenic (mg/kg) ND
99SPORT0180-1
99SPORT0172-4
99SPORT0172-11
99SPORT0172-5
99SPORT0172-12
99SPORT0180-2
99SPORT0172-7
99SPORT0172-14
99SPORT0172-8
99SPORT0181-2
99SPORT0186-1
40S001
40S002
40S003
40S004
40S005
40S007
40S008
40S009
40S011
40S012
40S013
40S014
40S017
40S018
40S019
40S020
40S021
40S022
40S023
120'-0"
35'-0"
20'-0"
15'-0"
8'-0"
10'
90'-0"
28'-8"
117'-0"
25'-0"
75'-0"
104'-8"
50'-0"
110'
10'
18'-0"
80'-0"
232'-0"
36'-0"
55'-0"
72'-0"
110'-0"
109'-0"
128'-0"
N
LEGEND
CONFIRMATORY SAMPLE POINT
EXCAVATED TO 2 FEET DEEP
NOTE: Exceedances of residential SCTLs are bolded and shaded.
ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE – BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2105
FIGURE 3
NAVAL TRAINING CENTER ORLANDO SA 40
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS
DATE 17 AUGUST 1999
PREPARED BY: A. J. MOYER
REV –
SCALE: NONE
SHEET
ENVIRONMENTAL DETACHMENT CHARLESTON SOUTH CAROLINA

00449 E B12Y



ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE – BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 3
NAVAL TRAINING CENTER ORLANDO SA 40
EXCAVATION BOUNDARIES AND CONFIRMATORY SAMPLE LOCATIONS

DATE	PREPARED BY:	REV
17 AUGUST 1999	A. J. MOYER	–
SCALE: NONE		SHEET

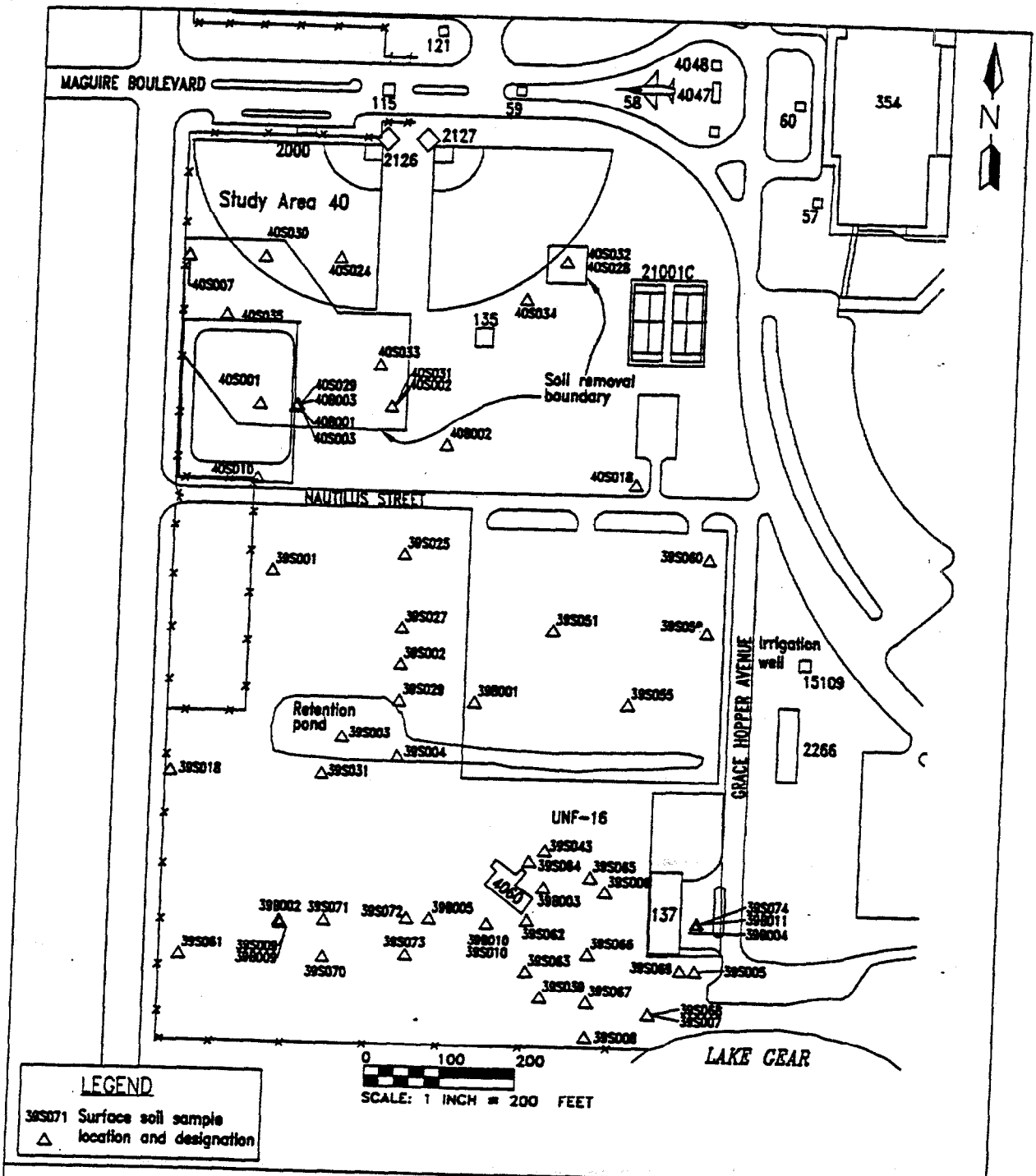
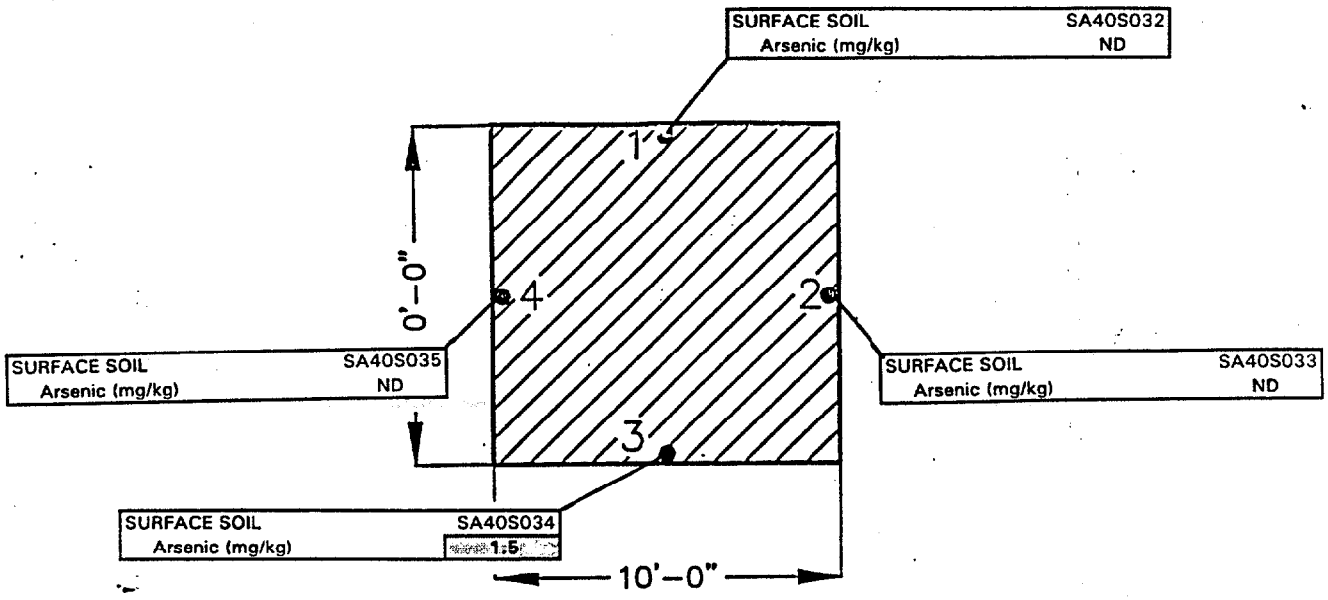


FIGURE 4
SURFACE SOIL SAMPLE LOCATIONS AND SOIL REMOVAL BOUNDARY

BASE REALIGNMENT AND CLOSURE WORK PLAN FOR INTERIM REMEDIAL ACTION, STUDY AREA 40

NAVAL TRAINING CENTER
ORLANDO, FLORIDA



NOTE: Exceedances of residential SCTLs are bolded and shaded.

LEGEND

1 ● CONFIRMATORY SAMPLE ID SA40S032

2 ● CONFIRMATORY SAMPLE ID SA40S033

3 ● CONFIRMATORY SAMPLE ID SA40S034

4 ● CONFIRMATORY SAMPLE ID SA40S035

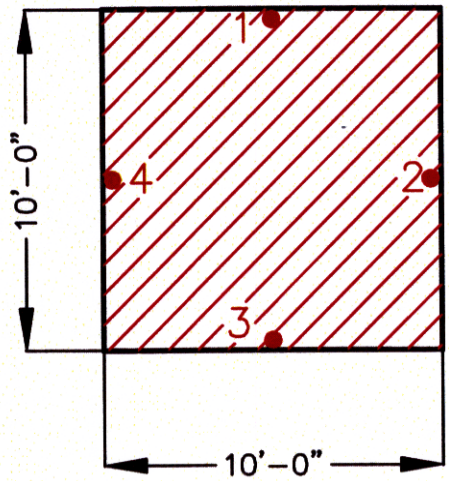
EXCAVATED TO 2 FEET DEEP

N

ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE – BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 4
NAVAL TRAINING CENTER CENTER ORLANDO SA 40
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS

DATE:	PREPARED BY:	REV
20 JULY 1999	A. J. MOYER	–
SCALE: NONE		SHEET: –



LEGEND

1 ● CONFIRMATORY SAMPLE ID SA40S032

2 ● CONFIRMATORY SAMPLE ID SA40S033

3 ● CONFIRMATORY SAMPLE ID SA40S034

4 ● CONFIRMATORY SAMPLE ID SA40S035

EXCAVATED TO 2 FEET DEEP

N

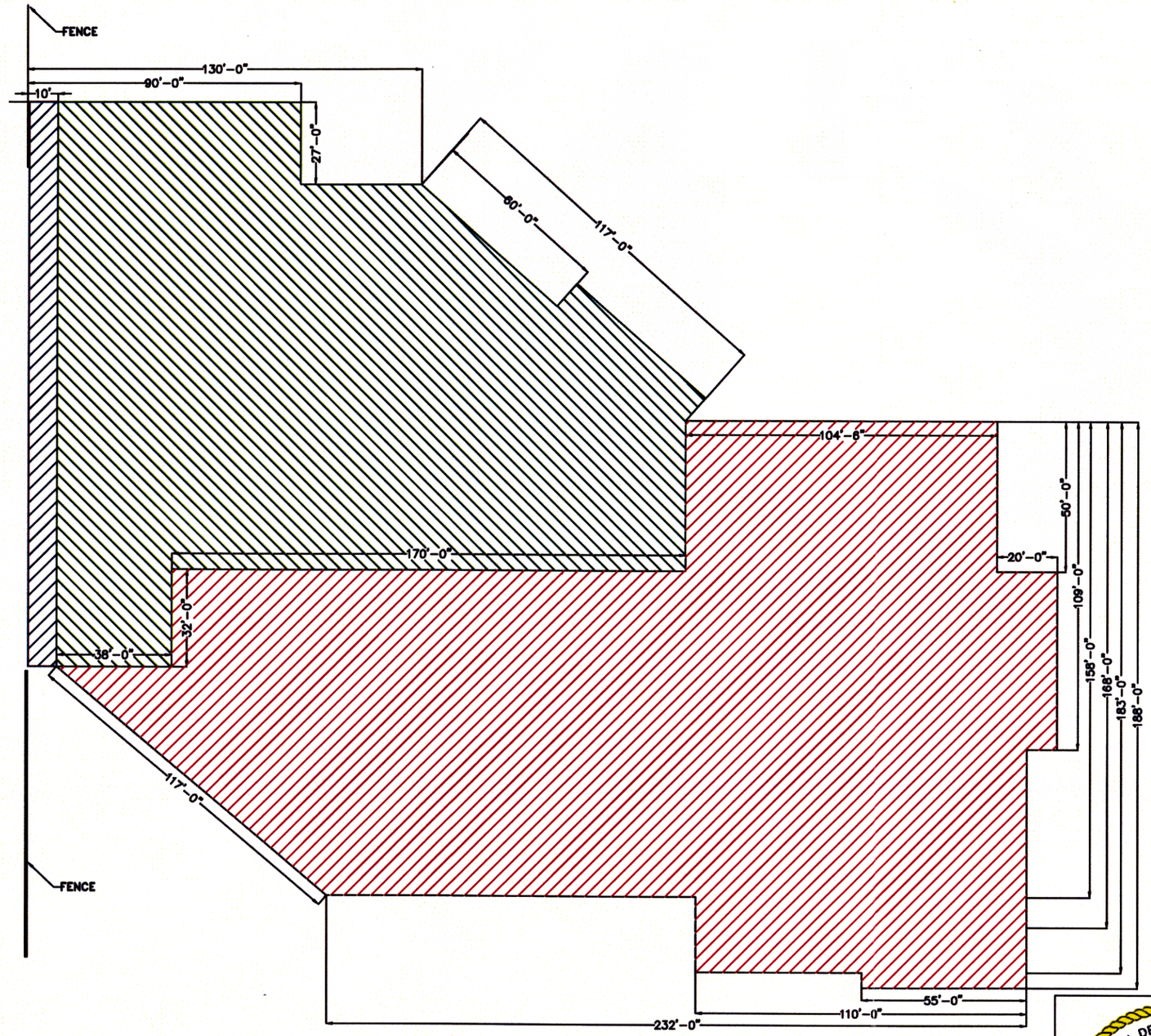
ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE – BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405–2106

FIGURE 4
NAVAL TRAINING CENTER CENTER ORLANDO SA 40
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS

DATE:	PREPARED BY:	REV
20 JULY 1999	A. J. MOYER	–

SCALE: NONE		SHEET: –

00449F13Y



N

LEGEND

- DEBRIS AREA EXCAVATED 1 FOOT DEEP
- DEBRIS AREA OF PAH AND ARSENIC EXCAVATION 2 FOOT DEEP
- NON-DEBRIS AREA OF PAH AND ARSENIC EXCAVATION 2 FOOT DEEP

ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE - BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 5
NAVAL TRAINING CENTER ORLANDO SA 40
DEBRIS AREA BOUNDARIES

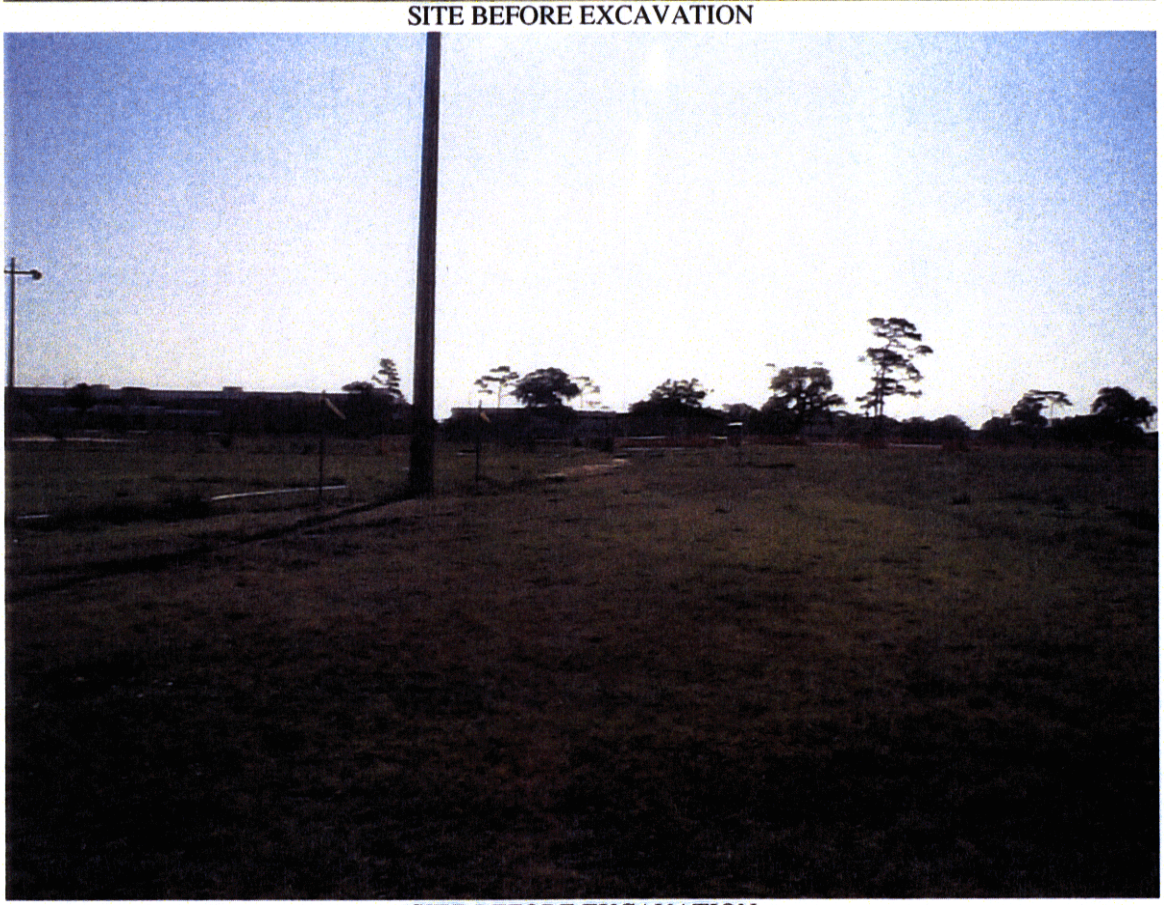
DATE	PREPARED BY:	REV
17 AUGUST 1999	A. J. MOYER	-
SCALE: NONE		SHEET

SITE BEFORE EXCAVATION AT SAMPLE POINT 40S028

SITE AFTER EXCAVATION AT SAMPLE POINT 40S028

00449EB14Y

SITE BEFORE EXCAVATION



SITE BEFORE EXCAVATION

SITE BEFORE EXCAVATION

SITE DURING EXCAVATION

SITE DURING EXCAVATION

SITE DURING EXCAVATION

EXCAVATED DEBRIS

EXCAVATING DEBRIS AREA

LOADING HAUL TRUCKS DURING EXCAVATION

BACKFILLING SITE

SITE DURING BACKFILLING

SILT FENCING

SITE AFTER BACKFILLING

SITE AFTER BACKFILLING

SITE AFTER BACKFILLING

SITE HYDROSEEDED

CONFIRMATION SAMPLES

Environmental Conservation Laboratories
10207 General Drive
Orlando, Florida 32824-8529
407 / 826-5314
Fax 407 / 850-6945
www.encolabs.com

ENCO Laboratories

DHRS Certification No. E83182

Client:	Environmental Detachment Charleston	Report #:	OR6368
		Date Submitted:	26-Apr-99
		Date Reported:	5-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC-Orlando SCA

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-1	40S001	4/24/99 10:05	8310	Naphthalene	17	U	1	µg/Kg	17	6.9
OR6368-1	40S001	4/24/99 10:05	8310	Acenaphthylene	34	U	1	µg/Kg	34	3.4
OR6368-1	40S001	4/24/99 10:05	8310	1-Methylnaphthalene	34	U	1	µg/Kg	34	3.4
OR6368-1	40S001	4/24/99 10:05	8310	2-Methylnaphthalene	34	U	1	µg/Kg	34	6.9
OR6368-1	40S001	4/24/99 10:05	8310	Acenaphthene	17	U	1	µg/Kg	17	6.9
OR6368-1	40S001	4/24/99 10:05	8310	Fluorene	8.6		1	µg/Kg	3.4	1.4
OR6368-1	40S001	4/24/99 10:05	8310	Phenanthrene	34	U	1	µg/Kg	34	1.4
OR6368-1	40S001	4/24/99 10:05	8310	Anthracene	2	U	1	µg/Kg	2	1
OR6368-1	40S001	4/24/99 10:05	8310	Fluoranthene	27		1	µg/Kg	3.4	1.4
OR6368-1	40S001	4/24/99 10:05	8310	Pyrene	2	I	1	µg/Kg	1.7	1.4
OR6368-1	40S001	4/24/99 10:05	8310	Benzo(a)anthracene	4.4		1	µg/Kg	1.7	0.69
OR6368-1	40S001	4/24/99 10:05	8310	Chrysene	1.7	U	1	µg/Kg	1.7	0.69
OR6368-1	40S001	4/24/99 10:05	8310	Benzo(b)fluoranthene	37		1	µg/Kg	3	2
OR6368-1	40S001	4/24/99 10:05	8310	Benzo(k)fluoranthene	37		1	µg/Kg	2	1
OR6368-1	40S001	4/24/99 10:05	8310	Benzo(a)pyrene	18		1	µg/Kg	2	1
OR6368-1	40S001	4/24/99 10:05	8310	Dibenzo(a,h)anthracene	130		1	µg/Kg	3.4	2.4
OR6368-1	40S001	4/24/99 10:05	8310	Benzo(g,h,i)perylene	11		1	µg/Kg	3.4	2.4
OR6368-1	40S001	4/24/99 10:05	8310	Indeno(1,2,3-cd)pyrene	1.7	U	1	µg/Kg	1.7	0.69
OR6368-1	40S001	4/24/99 10:05	8310	p-Terphenyl	98		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-1	40S001	4/24/99 10:05	6010	Arsenic	0.8	I	1	mg/Kg	0.5	0.4

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-1	40S001	4/24/99 10:05	SM2540G	Percent Solids	97			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.
I = analyte detected; value is beween the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

Client:	Environmental Detachment Charleston	Report #:	OR6368
		Date Submitted:	26-Apr-99
		Date Reported:	5-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC-Orlando SCA

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-2	40S002	4/24/99 10:10	8310	Naphthalene	17	U	1	µg/Kg	17	6.8
OR6368-2	40S002	4/24/99 10:10	8310	Acenaphthylene	34	U	1	µg/Kg	34	3.3
OR6368-2	40S002	4/24/99 10:10	8310	1-Methylnaphthalene	34	U	1	µg/Kg	34	3.3
OR6368-2	40S002	4/24/99 10:10	8310	2-Methylnaphthalene	34	U	1	µg/Kg	34	6.8
OR6368-2	40S002	4/24/99 10:10	8310	Acenaphthene	17	U	1	µg/Kg	17	6.8
OR6368-2	40S002	4/24/99 10:10	8310	Fluorene	3.4	U	1	µg/Kg	3.4	1.3
OR6368-2	40S002	4/24/99 10:10	8310	Phenanthrene	34	U	1	µg/Kg	34	1.3
OR6368-2	40S002	4/24/99 10:10	8310	Anthracene	2	I	1	µg/Kg	2	1
OR6368-2	40S002	4/24/99 10:10	8310	Fluoranthene	33		1	µg/Kg	3.4	1.3
OR6368-2	40S002	4/24/99 10:10	8310	Pyrene	27		1	µg/Kg	1.7	1.3
OR6368-2	40S002	4/24/99 10:10	8310	Benzo(a)anthracene	19		1	µg/Kg	1.7	0.68
OR6368-2	40S002	4/24/99 10:10	8310	Chrysene	28		1	µg/Kg	1.7	0.68
OR6368-2	40S002	4/24/99 10:10	8310	Benzo(b)fluoranthene	27		1	µg/Kg	3	2
OR6368-2	40S002	4/24/99 10:10	8310	Benzo(k)fluoranthene	19		1	µg/Kg	2	1
OR6368-2	40S002	4/24/99 10:10	8310	Benzo(a)pyrene	38		1	µg/Kg	2	1
OR6368-2	40S002	4/24/99 10:10	8310	Dibenzo(a,h)anthracene	36		1	µg/Kg	3.4	2.4
OR6368-2	40S002	4/24/99 10:10	8310	Benzo(g,h,i)perylene	24		1	µg/Kg	3.4	2.4
OR6368-2	40S002	4/24/99 10:10	8310	Indeno(1,2,3-cd)pyrene	26		1	µg/Kg	1.7	0.68
OR6368-2	40S002	4/24/99 10:10	8310	p-Terphenyl	113		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-2	40S002	4/24/99 10:10	6010	Arsenic	0.6	I	1	mg/Kg	0.5	0.4

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-2	40S002	4/24/99 10:10	SM2540G	Percent Solids	99			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.
I = analyte detected; value is beween the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

Client:	Environmental Detachment Charleston	Report #:	OR6368
		Date Submitted:	26-Apr-99
		Date Reported:	5-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC-Orlando SCA

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-3	40S003	4/24/99 10:14	8310	Naphthalene	17	U	1	µg/Kg	17	7
OR6368-3	40S003	4/24/99 10:14	8310	Acenaphthylene	35	U	1	µg/Kg	35	3.4
OR6368-3	40S003	4/24/99 10:14	8310	1-Methylnaphthalene	35	U	1	µg/Kg	35	3.4
OR6368-3	40S003	4/24/99 10:14	8310	2-Methylnaphthalene	35	U	1	µg/Kg	35	7
OR6368-3	40S003	4/24/99 10:14	8310	Acenaphthene	17	U	1	µg/Kg	17	7
OR6368-3	40S003	4/24/99 10:14	8310	Fluorene	3.5	U	1	µg/Kg	3.5	1.4
OR6368-3	40S003	4/24/99 10:14	8310	Phenanthrene	35	U	1	µg/Kg	35	1.4
OR6368-3	40S003	4/24/99 10:14	8310	Anthracene	2	U	1	µg/Kg	2	1
OR6368-3	40S003	4/24/99 10:14	8310	Fluoranthene	5	I	1	µg/Kg	3.5	1.4
OR6368-3	40S003	4/24/99 10:14	8310	Pyrene	2.4	I	1	µg/Kg	1.7	1.4
OR6368-3	40S003	4/24/99 10:14	8310	Benzo(a)anthracene	1.7	U	1	µg/Kg	1.7	0.7
OR6368-3	40S003	4/24/99 10:14	8310	Chrysene	2.8		1	µg/Kg	1.7	0.7
OR6368-3	40S003	4/24/99 10:14	8310	Benzo(b)fluoranthene	3	I	1	µg/Kg	3	2
OR6368-3	40S003	4/24/99 10:14	8310	Benzo(k)fluoranthene	2	U	1	µg/Kg	2	1
OR6368-3	40S003	4/24/99 10:14	8310	Benzo(a)pyrene	2	U	1	µg/Kg	2	1
OR6368-3	40S003	4/24/99 10:14	8310	Dibenzo(a,h)anthracene	3.5	U	1	µg/Kg	3.5	2.4
OR6368-3	40S003	4/24/99 10:14	8310	Benzo(g,h,i)perylene	3.5	U	1	µg/Kg	3.5	2.4
OR6368-3	40S003	4/24/99 10:14	8310	Indeno(1,2,3-cd)pyrene	3.4		1	µg/Kg	1.7	0.7
OR6368-3	40S003	4/24/99 10:14	8310	p-Terphenyl	110		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-3	40S003	4/24/99 10:14	6010	Arsenic	1.8		1	mg/Kg	0.5	0.4

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-3	40S003	4/24/99 10:14	SM2540G	Percent Solids	96			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.
I = analyte detected; value is beween the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

Client:	Environmental Detachment Charleston	Report #:	OR6368
		Date Submitted:	26-Apr-99
		Date Reported:	5-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC-Orlando SCA

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-4	40S004	4/24/99 10:20	8310	Naphthalene	18	U	1	µg/Kg	18	7
OR6368-4	40S004	4/24/99 10:20	8310	Acenaphthylene	35	U	1	µg/Kg	35	3.5
OR6368-4	40S004	4/24/99 10:20	8310	1-Methylnaphthalene	35	U	1	µg/Kg	35	3.5
OR6368-4	40S004	4/24/99 10:20	8310	2-Methylnaphthalene	35	U	1	µg/Kg	35	7
OR6368-4	40S004	4/24/99 10:20	8310	Acenaphthene	18	U	1	µg/Kg	18	7
OR6368-4	40S004	4/24/99 10:20	8310	Fluorene	3.5	U	1	µg/Kg	3.5	1.4
OR6368-4	40S004	4/24/99 10:20	8310	Phenanthrene	35	U	1	µg/Kg	35	1.4
OR6368-4	40S004	4/24/99 10:20	8310	Anthracene	2	U	1	µg/Kg	2	1
OR6368-4	40S004	4/24/99 10:20	8310	Fluoranthene	3.5	U	1	µg/Kg	3.5	1.4
OR6368-4	40S004	4/24/99 10:20	8310	Pyrene	2.8	I	1	µg/Kg	1.8	1.4
OR6368-4	40S004	4/24/99 10:20	8310	Benzo(a)anthracene	1.8	U	1	µg/Kg	1.8	0.7
OR6368-4	40S004	4/24/99 10:20	8310	Chrysene	1.8	I	1	µg/Kg	1.8	0.7
OR6368-4	40S004	4/24/99 10:20	8310	Benzo(b)fluoranthene	3	U	1	µg/Kg	3	2
OR6368-4	40S004	4/24/99 10:20	8310	Benzo(k)fluoranthene	2	U	1	µg/Kg	2	1
OR6368-4	40S004	4/24/99 10:20	8310	Benzo(a)pyrene	2	U	1	µg/Kg	2	1
OR6368-4	40S004	4/24/99 10:20	8310	Dibenzo(a,h)anthracene	3.5	U	1	µg/Kg	3.5	2.4
OR6368-4	40S004	4/24/99 10:20	8310	Benzo(g,h,i)perylene	3.5	U	1	µg/Kg	3.5	2.4
OR6368-4	40S004	4/24/99 10:20	8310	Indeno(1,2,3-cd)pyrene	1.8	U	1	µg/Kg	1.8	0.7
OR6368-4	40S004	4/24/99 10:20	8310	p-Terphenyl	96		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-4	40S004	4/24/99 10:20	6010	Arsenic	0.9	I	1	mg/Kg	0.5	0.4

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-4	40S004	4/24/99 10:20	SM2540G	Percent Solids	95			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.
I = analyte detected; value is beween the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

Client:	Environmental Detachment Charleston	Report #:	OR6368
		Date Submitted:	26-Apr-99
		Date Reported:	5-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC-Orlando SCA

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-5	40S005	4/24/99 10:30	8310	Naphthalene	18	U	1	µg/Kg	18	7
OR6368-5	40S005	4/24/99 10:30	8310	Acenaphthylene	35	U	1	µg/Kg	35	3.5
OR6368-5	40S005	4/24/99 10:30	8310	1-Methylnaphthalene	35	U	1	µg/Kg	35	3.5
OR6368-5	40S005	4/24/99 10:30	8310	2-Methylnaphthalene	35	U	1	µg/Kg	35	7
OR6368-5	40S005	4/24/99 10:30	8310	Acenaphthene	45		1	µg/Kg	18	7
OR6368-5	40S005	4/24/99 10:30	8310	Fluorene	3.5	U	1	µg/Kg	3.5	1.4
OR6368-5	40S005	4/24/99 10:30	8310	Phenanthrene	35	U	1	µg/Kg	35	1.4
OR6368-5	40S005	4/24/99 10:30	8310	Anthracene	2	U	1	µg/Kg	2	1
OR6368-5	40S005	4/24/99 10:30	8310	Fluoranthene	3.5	U	1	µg/Kg	3.5	1.4
OR6368-5	40S005	4/24/99 10:30	8310	Pyrene	1.8	U	1	µg/Kg	1.8	1.4
OR6368-5	40S005	4/24/99 10:30	8310	Benzo(a)anthracene	1.8	U	1	µg/Kg	1.8	0.7
OR6368-5	40S005	4/24/99 10:30	8310	Chrysene	5.6		1	µg/Kg	1.8	0.7
OR6368-5	40S005	4/24/99 10:30	8310	Benzo(b)fluoranthene	3	I	1	µg/Kg	3	2
OR6368-5	40S005	4/24/99 10:30	8310	Benzo(k)fluoranthene	2	U	1	µg/Kg	2	1
OR6368-5	40S005	4/24/99 10:30	8310	Benzo(a)pyrene	2	U	1	µg/Kg	2	1
OR6368-5	40S005	4/24/99 10:30	8310	Dibenzo(a,h)anthracene	3.5	U	1	µg/Kg	3.5	2.4
OR6368-5	40S005	4/24/99 10:30	8310	Benzo(g,h,i)perylene	3.5	U	1	µg/Kg	3.5	2.4
OR6368-5	40S005	4/24/99 10:30	8310	Indeno(1,2,3-cd)pyrene	3.5		1	µg/Kg	1.8	0.7
OR6368-5	40S005	4/24/99 10:30	8310	p-Terphenyl	92		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-5	40S005	4/24/99 10:30	6010	Arsenic	3.4		1	mg/Kg	0.5	0.4

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-5	40S005	4/24/99 10:30	SM2540G	Percent Solids	95			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.
I = analyte detected; value is beween the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

Client:	Environmental Detachment Charleston	Report #:	OR6368
		Date Submitted:	26-Apr-99
		Date Reported:	5-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC-Orlando SCA

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-7	40S007	4/24/99 10:44	8310	Naphthalene	17	U	1	µg/Kg	17	6.9
OR6368-7	40S007	4/24/99 10:44	8310	Acenaphthylene	34	U	1	µg/Kg	34	3.4
OR6368-7	40S007	4/24/99 10:44	8310	1-Methylnaphthalene	34	U	1	µg/Kg	34	3.4
OR6368-7	40S007	4/24/99 10:44	8310	2-Methylnaphthalene	34	U	1	µg/Kg	34	6.9
OR6368-7	40S007	4/24/99 10:44	8310	Acenaphthene	17	U	1	µg/Kg	17	6.9
OR6368-7	40S007	4/24/99 10:44	8310	Fluorene	3.4	U	1	µg/Kg	3.4	1.4
OR6368-7	40S007	4/24/99 10:44	8310	Phenanthrene	34	U	1	µg/Kg	34	1.4
OR6368-7	40S007	4/24/99 10:44	8310	Anthracene	2	U	1	µg/Kg	2	1
OR6368-7	40S007	4/24/99 10:44	8310	Fluoranthene	3.4	U	1	µg/Kg	3.4	1.4
OR6368-7	40S007	4/24/99 10:44	8310	Pyrene	1.7	U	1	µg/Kg	1.7	1.4
OR6368-7	40S007	4/24/99 10:44	8310	Benzo(a)anthracene	1.7	U	1	µg/Kg	1.7	0.69
OR6368-7	40S007	4/24/99 10:44	8310	Chrysene	1.7	U	1	µg/Kg	1.7	0.69
OR6368-7	40S007	4/24/99 10:44	8310	Benzo(b)fluoranthene	3	U	1	µg/Kg	3	2
OR6368-7	40S007	4/24/99 10:44	8310	Benzo(k)fluoranthene	2	U	1	µg/Kg	2	1
OR6368-7	40S007	4/24/99 10:44	8310	Benzo(a)pyrene	2	U	1	µg/Kg	2	1
OR6368-7	40S007	4/24/99 10:44	8310	Dibenzo(a,h)anthracene	3.4	U	1	µg/Kg	3.4	2.4
OR6368-7	40S007	4/24/99 10:44	8310	Benzo(g,h,i)perylene	3.4	U	1	µg/Kg	3.4	2.4
OR6368-7	40S007	4/24/99 10:44	8310	Indeno(1,2,3-cd)pyrene	1.7	U	1	µg/Kg	1.7	0.69
OR6368-7	40S007	4/24/99 10:44	8310	p-Terphenyl	94		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-7	40S007	4/24/99 10:44	6010	Arsenic	0.5	U	1	mg/Kg	0.5	0.4

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-7	40S007	4/24/99 10:44	SM2540G	Percent Solids	97			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6368
		Date Submitted:	26-Apr-99
		Date Reported:	5-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC-Orlando SCA

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-8	40S008	4/24/99 10:50	8310	Naphthalene	17	U	1	µg/Kg	17	6.8
OR6368-8	40S008	4/24/99 10:50	8310	Acenaphthylene	34	U	1	µg/Kg	34	3.3
OR6368-8	40S008	4/24/99 10:50	8310	1-Methylnaphthalene	100		1	µg/Kg	34	3.3
OR6368-8	40S008	4/24/99 10:50	8310	2-Methylnaphthalene	34	U	1	µg/Kg	34	6.8
OR6368-8	40S008	4/24/99 10:50	8310	Acenaphthene	100		1	µg/Kg	17	6.8
OR6368-8	40S008	4/24/99 10:50	8310	Fluorene	3.4	U	1	µg/Kg	3.4	1.3
OR6368-8	40S008	4/24/99 10:50	8310	Phenanthrene	43		1	µg/Kg	34	1.3
OR6368-8	40S008	4/24/99 10:50	8310	Anthracene	8		1	µg/Kg	2	1
OR6368-8	40S008	4/24/99 10:50	8310	Fluoranthene	130		1	µg/Kg	3.4	1.3
OR6368-8	40S008	4/24/99 10:50	8310	Pyrene	130		1	µg/Kg	1.7	1.3
OR6368-8	40S008	4/24/99 10:50	8310	Benzo(a)anthracene	52		1	µg/Kg	1.7	0.68
OR6368-8	40S008	4/24/99 10:50	8310	Chrysene	68		1	µg/Kg	1.7	0.68
OR6368-8	40S008	4/24/99 10:50	8310	Benzo(b)fluoranthene	71		1	µg/Kg	3	2
OR6368-8	40S008	4/24/99 10:50	8310	Benzo(k)fluoranthene	50		1	µg/Kg	2	1
OR6368-8	40S008	4/24/99 10:50	8310	Benzo(a)pyrene	80		1	µg/Kg	2	1
OR6368-8	40S008	4/24/99 10:50	8310	Dibenzo(a,h)anthracene	67		1	µg/Kg	3.4	2.4
OR6368-8	40S008	4/24/99 10:50	8310	Benzo(g,h,i)perylene	58		1	µg/Kg	3.4	2.4
OR6368-8	40S008	4/24/99 10:50	8310	Indeno(1,2,3-cd)pyrene	58		1	µg/Kg	1.7	0.68
OR6368-8	40S008	4/24/99 10:50	8310	p-Terphenyl	122		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-8	40S008	4/24/99 10:50	6010	Arsenic	1.6	I	1	mg/Kg	0.5	0.4

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-8	40S008	4/24/99 10:50	SM2540G	Percent Solids	99			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.
I = analyte detected; value is beween the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

Client:	Environmental Detachment Charleston	Report #:	OR6368
		Date Submitted:	26-Apr-99
		Date Reported:	5-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC-Orlando SCA

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-9	40S009	4/24/99 10:55	8310	Naphthalene	17	U	1	µg/Kg	17	6.8
OR6368-9	40S009	4/24/99 10:55	8310	Acenaphthylene	34	U	1	µg/Kg	34	3.4
OR6368-9	40S009	4/24/99 10:55	8310	1-Methylnaphthalene	34	U	1	µg/Kg	34	3.4
OR6368-9	40S009	4/24/99 10:55	8310	2-Methylnaphthalene	34	U	1	µg/Kg	34	6.8
OR6368-9	40S009	4/24/99 10:55	8310	Acenaphthene	17	U	1	µg/Kg	17	6.8
OR6368-9	40S009	4/24/99 10:55	8310	Fluorene	3.4	U	1	µg/Kg	3.4	1.4
OR6368-9	40S009	4/24/99 10:55	8310	Phenanthrene	34	U	1	µg/Kg	34	1.4
OR6368-9	40S009	4/24/99 10:55	8310	Anthracene	2	U	1	µg/Kg	2	1
OR6368-9	40S009	4/24/99 10:55	8310	Fluoranthene	19		1	µg/Kg	3.4	1.4
OR6368-9	40S009	4/24/99 10:55	8310	Pyrene	15		1	µg/Kg	1.7	1.4
OR6368-9	40S009	4/24/99 10:55	8310	Benzo(a)anthracene	8		1	µg/Kg	1.7	0.68
OR6368-9	40S009	4/24/99 10:55	8310	Chrysene	11		1	µg/Kg	1.7	0.68
OR6368-9	40S009	4/24/99 10:55	8310	Benzo(b)fluoranthene	14		1	µg/Kg	3	2
OR6368-9	40S009	4/24/99 10:55	8310	Benzo(k)fluoranthene	9		1	µg/Kg	2	1
OR6368-9	40S009	4/24/99 10:55	8310	Benzo(a)pyrene	13		1	µg/Kg	2	1
OR6368-9	40S009	4/24/99 10:55	8310	Dibenzo(a,h)anthracene	4.4	I	1	µg/Kg	3.4	2.4
OR6368-9	40S009	4/24/99 10:55	8310	Benzo(g,h,i)perylene	9	I	1	µg/Kg	3.4	2.4
OR6368-9	40S009	4/24/99 10:55	8310	Indeno(1,2,3-cd)pyrene	12		1	µg/Kg	1.7	0.68
OR6368-9	40S009	4/24/99 10:55	8310	p-Terphenyl	85		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-9	40S009	4/24/99 10:55	6010	Arsenic	1.1	I	1	mg/Kg	0.5	0.4

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-9	40S009	4/24/99 10:55	SM2540G	Percent Solids	98			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.
I = analyte detected; value is beween the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

Client:	Environmental Detachment Charleston	Report #:	OR6368
		Date Submitted:	26-Apr-99
		Date Reported:	5-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC-Orlando SCA

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-11	40S011	4/24/99 11:10	8310	Naphthalene	17	U	1	µg/Kg	17	6.8
OR6368-11	40S011	4/24/99 11:10	8310	Acenaphthylene	34	U	1	µg/Kg	34	3.3
OR6368-11	40S011	4/24/99 11:10	8310	1-Methylnaphthalene	34	U	1	µg/Kg	34	3.3
OR6368-11	40S011	4/24/99 11:10	8310	2-Methylnaphthalene	34	U	1	µg/Kg	34	6.8
OR6368-11	40S011	4/24/99 11:10	8310	Acenaphthene	17	U	1	µg/Kg	17	6.8
OR6368-11	40S011	4/24/99 11:10	8310	Fluorene	3.4	U	1	µg/Kg	3.4	1.3
OR6368-11	40S011	4/24/99 11:10	8310	Phenanthrene	34	U	1	µg/Kg	34	1.3
OR6368-11	40S011	4/24/99 11:10	8310	Anthracene	2	U	1	µg/Kg	2	1
OR6368-11	40S011	4/24/99 11:10	8310	Fluoranthene	22		1	µg/Kg	3.4	1.3
OR6368-11	40S011	4/24/99 11:10	8310	Pyrene	16		1	µg/Kg	1.7	1.3
OR6368-11	40S011	4/24/99 11:10	8310	Benzo(a)anthracene	7		1	µg/Kg	1.7	0.68
OR6368-11	40S011	4/24/99 11:10	8310	Chrysene	12		1	µg/Kg	1.7	0.68
OR6368-11	40S011	4/24/99 11:10	8310	Benzo(b)fluoranthene	13		1	µg/Kg	3	2
OR6368-11	40S011	4/24/99 11:10	8310	Benzo(k)fluoranthene	10		1	µg/Kg	2	1
OR6368-11	40S011	4/24/99 11:10	8310	Benzo(a)pyrene	15		1	µg/Kg	2	1
OR6368-11	40S011	4/24/99 11:10	8310	Dibenzo(a,h)anthracene	3.4	U	1	µg/Kg	3.4	2.4
OR6368-11	40S011	4/24/99 11:10	8310	Benzo(g,h,i)perylene	3.4	U	1	µg/Kg	3.4	2.4
OR6368-11	40S011	4/24/99 11:10	8310	Indeno(1,2,3-cd)pyrene	8		1	µg/Kg	1.7	0.68
OR6368-11	40S011	4/24/99 11:10	8310	p-Terphenyl	95		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-11	40S011	4/24/99 11:10	6010	Arsenic	0.5	U	1	mg/Kg	0.5	0.4

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-11	40S011	4/24/99 11:10	SM2540G	Percent Solids	99			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6368
		Date Submitted:	26-Apr-99
		Date Reported:	5-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC-Orlando SCA

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-12	40S012	4/24/99 11:20	8310	Naphthalene	17	U	1	µg/Kg	17	6.8
OR6368-12	40S012	4/24/99 11:20	8310	Acenaphthylene	34	U	1	µg/Kg	34	3.3
OR6368-12	40S012	4/24/99 11:20	8310	1-Methylnaphthalene	34	U	1	µg/Kg	34	3.3
OR6368-12	40S012	4/24/99 11:20	8310	2-Methylnaphthalene	34	U	1	µg/Kg	34	6.8
OR6368-12	40S012	4/24/99 11:20	8310	Acenaphthene	17	U	1	µg/Kg	17	6.8
OR6368-12	40S012	4/24/99 11:20	8310	Fluorene	3.4	U	1	µg/Kg	3.4	1.3
OR6368-12	40S012	4/24/99 11:20	8310	Phenanthrene	34	U	1	µg/Kg	34	1.3
OR6368-12	40S012	4/24/99 11:20	8310	Anthracene	2	U	1	µg/Kg	2	1
OR6368-12	40S012	4/24/99 11:20	8310	Fluoranthene	3.4	U	1	µg/Kg	3.4	1.3
OR6368-12	40S012	4/24/99 11:20	8310	Pyrene	1.7	U	1	µg/Kg	1.7	1.3
OR6368-12	40S012	4/24/99 11:20	8310	Benzo(a)anthracene	1.7	U	1	µg/Kg	1.7	0.68
OR6368-12	40S012	4/24/99 11:20	8310	Chrysene	1.7	U	1	µg/Kg	1.7	0.68
OR6368-12	40S012	4/24/99 11:20	8310	Benzo(b)fluoranthene	3	U	1	µg/Kg	3	2
OR6368-12	40S012	4/24/99 11:20	8310	Benzo(k)fluoranthene	2	U	1	µg/Kg	2	1
OR6368-12	40S012	4/24/99 11:20	8310	Benzo(a)pyrene	2	U	1	µg/Kg	2	1
OR6368-12	40S012	4/24/99 11:20	8310	Dibenzo(a,h)anthracene	3.4	U	1	µg/Kg	3.4	2.4
OR6368-12	40S012	4/24/99 11:20	8310	Benzo(g,h,i)perylene	3.4	U	1	µg/Kg	3.4	2.4
OR6368-12	40S012	4/24/99 11:20	8310	Indeno(1,2,3-cd)pyrene	1.7	U	1	µg/Kg	1.7	0.68
OR6368-12	40S012	4/24/99 11:20	8310	p-Terphenyl	88		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-12	40S012	4/24/99 11:20	6010	Arsenic	0.5	U	1	mg/Kg	0.5	0.4

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-12	40S012	4/24/99 11:20	SM2540G	Percent Solids	99			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6368
		Date Submitted:	26-Apr-99
		Date Reported:	5-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC-Orlando SCA

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-13	40S013	4/24/99 11:45	8310	Naphthalene	17	U	1	µg/Kg	17	6.8
OR6368-13	40S013	4/24/99 11:45	8310	Acenaphthylene	34	U	1	µg/Kg	34	3.3
OR6368-13	40S013	4/24/99 11:45	8310	1-Methylnaphthalene	63		1	µg/Kg	34	3.3
OR6368-13	40S013	4/24/99 11:45	8310	2-Methylnaphthalene	34	U	1	µg/Kg	34	6.8
OR6368-13	40S013	4/24/99 11:45	8310	Acenaphthene	17	U	1	µg/Kg	17	6.8
OR6368-13	40S013	4/24/99 11:45	8310	Fluorene	3.4	U	1	µg/Kg	3.4	1.3
OR6368-13	40S013	4/24/99 11:45	8310	Phenanthrene	34	U	1	µg/Kg	34	1.3
OR6368-13	40S013	4/24/99 11:45	8310	Anthracene	4		1	µg/Kg	2	1
OR6368-13	40S013	4/24/99 11:45	8310	Fluoranthene	91		1	µg/Kg	3.4	1.3
OR6368-13	40S013	4/24/99 11:45	8310	Pyrene	75		1	µg/Kg	1.7	1.3
OR6368-13	40S013	4/24/99 11:45	8310	Benzo(a)anthracene	43		1	µg/Kg	1.7	0.68
OR6368-13	40S013	4/24/99 11:45	8310	Chrysene	98		1	µg/Kg	1.7	0.68
OR6368-13	40S013	4/24/99 11:45	8310	Benzo(b)fluoranthene	62		1	µg/Kg	3	2
OR6368-13	40S013	4/24/99 11:45	8310	Benzo(k)fluoranthene	33		1	µg/Kg	2	1
OR6368-13	40S013	4/24/99 11:45	8310	Benzo(a)pyrene	86		1	µg/Kg	2	1
OR6368-13	40S013	4/24/99 11:45	8310	Dibenzo(a,h)anthracene	75		1	µg/Kg	3.4	2.4
OR6368-13	40S013	4/24/99 11:45	8310	Benzo(g,h,i)perylene	47		1	µg/Kg	3.4	2.4
OR6368-13	40S013	4/24/99 11:45	8310	Indeno(1,2,3-cd)pyrene	43		1	µg/Kg	1.7	0.68
OR6368-13	40S013	4/24/99 11:45	8310	p-Terphenyl	117		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-13	40S013	4/24/99 11:45	6010	Arsenic	0.5	U	1	mg/Kg	0.5	0.4

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-13	40S013	4/24/99 11:45	SM2540G	Percent Solids	99			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6368
		Date Submitted:	26-Apr-99
		Date Reported:	5-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC-Orlando SCA

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-14	40S014	4/24/99 12:00	8310	Naphthalene	340	U	20	µg/Kg	340	140
OR6368-14	40S014	4/24/99 12:00	8310	Acenaphthylene	690	U	20	µg/Kg	690	68
OR6368-14	40S014	4/24/99 12:00	8310	1-Methylnaphthalene	880		20	µg/Kg	690	68
OR6368-14	40S014	4/24/99 12:00	8310	2-Methylnaphthalene	690	U	20	µg/Kg	690	140
OR6368-14	40S014	4/24/99 12:00	8310	Acenaphthene	860		20	µg/Kg	340	140
OR6368-14	40S014	4/24/99 12:00	8310	Fluorene	69	U	20	µg/Kg	69	27
OR6368-14	40S014	4/24/99 12:00	8310	Phenanthrene	690	U	20	µg/Kg	690	27
OR6368-14	40S014	4/24/99 12:00	8310	Anthracene	55	I	20	µg/Kg	34	21
OR6368-14	40S014	4/24/99 12:00	8310	Fluoranthene	1300		20	µg/Kg	69	27
OR6368-14	40S014	4/24/99 12:00	8310	Pyrene	1500		20	µg/Kg	34	27
OR6368-14	40S014	4/24/99 12:00	8310	Benzo(a)anthracene	520		20	µg/Kg	34	14
OR6368-14	40S014	4/24/99 12:00	8310	Chrysene	920		20	µg/Kg	34	14
OR6368-14	40S014	4/24/99 12:00	8310	Benzo(b)fluoranthene	650		20	µg/Kg	69	41
OR6368-14	40S014	4/24/99 12:00	8310	Benzo(k)fluoranthene	310		20	µg/Kg	34	21
OR6368-14	40S014	4/24/99 12:00	8310	Benzo(a)pyrene	460		20	µg/Kg	34	21
OR6368-14	40S014	4/24/99 12:00	8310	Dibenzo(a,h)anthracene	620		20	µg/Kg	69	48
OR6368-14	40S014	4/24/99 12:00	8310	Benzo(g,h,i)perylene	380		20	µg/Kg	69	48
OR6368-14	40S014	4/24/99 12:00	8310	Indeno(1,2,3-cd)pyrene	460		20	µg/Kg	34	14
OR6368-14	40S014	4/24/99 12:00	8310	p-Terphenyl	*		20	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-14	40S014	4/24/99 12:00	6010	Arsenic	2		1	mg/Kg	0.5	0.4

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-14	40S014	4/24/99 12:00	SM2540G	Percent Solids	97			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.
I = analyte detected; value is beween the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

Client:	Environmental Detachment Charleston	Report #:	OR6368
		Date Submitted:	26-Apr-99
		Date Reported:	5-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC-Orlando SCA

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-17	40S017	4/24/99 12:24	8310	Naphthalene	1700	U	100	µg/Kg	1700	680
OR6368-17	40S017	4/24/99 12:24	8310	Acenaphthylene	3400	U	100	µg/Kg	3400	330
OR6368-17	40S017	4/24/99 12:24	8310	1-Methylnaphthalene	3400	U	100	µg/Kg	3400	330
OR6368-17	40S017	4/24/99 12:24	8310	2-Methylnaphthalene	10000		100	µg/Kg	3400	680
OR6368-17	40S017	4/24/99 12:24	8310	Acenaphthene	1700	U	100	µg/Kg	1700	680
OR6368-17	40S017	4/24/99 12:24	8310	Fluorene	340	U	100	µg/Kg	340	130
OR6368-17	40S017	4/24/99 12:24	8310	Phenanthrene	3700		100	µg/Kg	3400	130
OR6368-17	40S017	4/24/99 12:24	8310	Anthracene	480		100	µg/Kg	170	100
OR6368-17	40S017	4/24/99 12:24	8310	Fluoranthene	10000		100	µg/Kg	340	130
OR6368-17	40S017	4/24/99 12:24	8310	Pyrene	170	U	100	µg/Kg	170	130
OR6368-17	40S017	4/24/99 12:24	8310	Benzo(a)anthracene	2700		100	µg/Kg	170	68
OR6368-17	40S017	4/24/99 12:24	8310	Chrysene	4600		100	µg/Kg	170	68
OR6368-17	40S017	4/24/99 12:24	8310	Benzo(b)fluoranthene	1800		100	µg/Kg	340	200
OR6368-17	40S017	4/24/99 12:24	8310	Benzo(k)fluoranthene	880		100	µg/Kg	170	100
OR6368-17	40S017	4/24/99 12:24	8310	Benzo(a)pyrene	2300		100	µg/Kg	170	100
OR6368-17	40S017	4/24/99 12:24	8310	Dibenzo(a,h)anthracene	2200		100	µg/Kg	340	240
OR6368-17	40S017	4/24/99 12:24	8310	Benzo(g,h,i)perylene	1300		100	µg/Kg	340	240
OR6368-17	40S017	4/24/99 12:24	8310	Indeno(1,2,3-cd)pyrene	1400		100	µg/Kg	170	68
OR6368-17	40S017	4/24/99 12:24	8310	p-Terphenyl	*		100	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-17	40S017	4/24/99 12:24	6010	Arsenic	0.5	U	1	mg/Kg	0.5	0.4

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-17	40S017	4/24/99 12:24	SM2540G	Percent Solids	99			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6368
		Date Submitted:	26-Apr-99
		Date Reported:	5-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC-Orlando SCA

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-18	40S018	4/24/99 12:31	8310	Naphthalene	17	U	1	µg/Kg	17	6.8
OR6368-18	40S018	4/24/99 12:31	8310	Acenaphthylene	34	U	1	µg/Kg	34	3.4
OR6368-18	40S018	4/24/99 12:31	8310	1-Methylnaphthalene	34	U	1	µg/Kg	34	3.4
OR6368-18	40S018	4/24/99 12:31	8310	2-Methylnaphthalene	34	U	1	µg/Kg	34	6.8
OR6368-18	40S018	4/24/99 12:31	8310	Acenaphthene	17	U	1	µg/Kg	17	6.8
OR6368-18	40S018	4/24/99 12:31	8310	Fluorene	3.4	U	1	µg/Kg	3.4	1.4
OR6368-18	40S018	4/24/99 12:31	8310	Phenanthrene	34	U	1	µg/Kg	34	1.4
OR6368-18	40S018	4/24/99 12:31	8310	Anthracene	2	U	1	µg/Kg	2	1
OR6368-18	40S018	4/24/99 12:31	8310	Fluoranthene	3.4	U	1	µg/Kg	3.4	1.4
OR6368-18	40S018	4/24/99 12:31	8310	Pyrene	1.7	U	1	µg/Kg	1.7	1.4
OR6368-18	40S018	4/24/99 12:31	8310	Benzo(a)anthracene	1.7	U	1	µg/Kg	1.7	0.68
OR6368-18	40S018	4/24/99 12:31	8310	Chrysene	1.7	U	1	µg/Kg	1.7	0.68
OR6368-18	40S018	4/24/99 12:31	8310	Benzo(b)fluoranthene	3	U	1	µg/Kg	3	2
OR6368-18	40S018	4/24/99 12:31	8310	Benzo(k)fluoranthene	2	U	1	µg/Kg	2	1
OR6368-18	40S018	4/24/99 12:31	8310	Benzo(a)pyrene	2	U	1	µg/Kg	2	1
OR6368-18	40S018	4/24/99 12:31	8310	Dibenzo(a,h)anthracene	3.4	U	1	µg/Kg	3.4	2.4
OR6368-18	40S018	4/24/99 12:31	8310	Benzo(g,h,i)perylene	3.4	U	1	µg/Kg	3.4	2.4
OR6368-18	40S018	4/24/99 12:31	8310	Indeno(1,2,3-cd)pyrene	1.7	U	1	µg/Kg	1.7	0.68
OR6368-18	40S018	4/24/99 12:31	8310	p-Terphenyl	97		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-18	40S018	4/24/99 12:31	6010	Arsenic	0.5	U	1	mg/Kg	0.5	0.4

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-18	40S018	4/24/99 12:31	SM2540G	Percent Solids	98			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6368
		Date Submitted:	26-Apr-99
		Date Reported:	5-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC-Orlando SCA

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-19	40S019	4/24/99 12:40	8310	Naphthalene	17	U	1	µg/Kg	17	6.8
OR6368-19	40S019	4/24/99 12:40	8310	Acenaphthylene	34	U	1	µg/Kg	34	3.4
OR6368-19	40S019	4/24/99 12:40	8310	1-Methylnaphthalene	34	U	1	µg/Kg	34	3.4
OR6368-19	40S019	4/24/99 12:40	8310	2-Methylnaphthalene	34	U	1	µg/Kg	34	6.8
OR6368-19	40S019	4/24/99 12:40	8310	Acenaphthene	17	U	1	µg/Kg	17	6.8
OR6368-19	40S019	4/24/99 12:40	8310	Fluorene	3.4	U	1	µg/Kg	3.4	1.4
OR6368-19	40S019	4/24/99 12:40	8310	Phenanthrene	34	U	1	µg/Kg	34	1.4
OR6368-19	40S019	4/24/99 12:40	8310	Anthracene	2	U	1	µg/Kg	2	1
OR6368-19	40S019	4/24/99 12:40	8310	Fluoranthene	3.4	U	1	µg/Kg	3.4	1.4
OR6368-19	40S019	4/24/99 12:40	8310	Pyrene	3	I	1	µg/Kg	1.7	1.4
OR6368-19	40S019	4/24/99 12:40	8310	Benzo(a)anthracene	2	I	1	µg/Kg	1.7	0.68
OR6368-19	40S019	4/24/99 12:40	8310	Chrysene	5.4		1	µg/Kg	1.7	0.68
OR6368-19	40S019	4/24/99 12:40	8310	Benzo(b)fluoranthene	3	U	1	µg/Kg	3	2
OR6368-19	40S019	4/24/99 12:40	8310	Benzo(k)fluoranthene	2	U	1	µg/Kg	2	1
OR6368-19	40S019	4/24/99 12:40	8310	Benzo(a)pyrene	2	I	1	µg/Kg	2	1
OR6368-19	40S019	4/24/99 12:40	8310	Dibenzo(a,h)anthracene	3.4	U	1	µg/Kg	3.4	2.4
OR6368-19	40S019	4/24/99 12:40	8310	Benzo(g,h,i)perylene	3.4	U	1	µg/Kg	3.4	2.4
OR6368-19	40S019	4/24/99 12:40	8310	Indeno(1,2,3-cd)pyrene	1.7	U	1	µg/Kg	1.7	0.68
OR6368-19	40S019	4/24/99 12:40	8310	p-Terphenyl	90		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-19	40S019	4/24/99 12:40	6010	Arsenic	0.5	U	1	mg/Kg	0.5	0.4

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-19	40S019	4/24/99 12:40	SM2540G	Percent Solids	98			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.
I = analyte detected; value is beween the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

Client:	Environmental Detachment Charleston	Report #:	OR6368
		Date Submitted:	26-Apr-99
		Date Reported:	5-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC-Orlando SCA

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-20	40S020	4/24/99 12:48	8310	Naphthalene	17	U	1	µg/Kg	17	6.9
OR6368-20	40S020	4/24/99 12:48	8310	Acenaphthylene	34	U	1	µg/Kg	34	3.4
OR6368-20	40S020	4/24/99 12:48	8310	1-Methylnaphthalene	34	U	1	µg/Kg	34	3.4
OR6368-20	40S020	4/24/99 12:48	8310	2-Methylnaphthalene	34	U	1	µg/Kg	34	6.9
OR6368-20	40S020	4/24/99 12:48	8310	Acenaphthene	17	U	1	µg/Kg	17	6.9
OR6368-20	40S020	4/24/99 12:48	8310	Fluorene	3.4	U	1	µg/Kg	3.4	1.4
OR6368-20	40S020	4/24/99 12:48	8310	Phenanthrene	34	U	1	µg/Kg	34	1.4
OR6368-20	40S020	4/24/99 12:48	8310	Anthracene	2	U	1	µg/Kg	2	1
OR6368-20	40S020	4/24/99 12:48	8310	Fluoranthene	3.4	U	1	µg/Kg	3.4	1.4
OR6368-20	40S020	4/24/99 12:48	8310	Pyrene	1.7	U	1	µg/Kg	1.7	1.4
OR6368-20	40S020	4/24/99 12:48	8310	Benzo(a)anthracene	1.7	U	1	µg/Kg	1.7	0.69
OR6368-20	40S020	4/24/99 12:48	8310	Chrysene	1.7	U	1	µg/Kg	1.7	0.69
OR6368-20	40S020	4/24/99 12:48	8310	Benzo(b)fluoranthene	3	U	1	µg/Kg	3	2
OR6368-20	40S020	4/24/99 12:48	8310	Benzo(k)fluoranthene	2	U	1	µg/Kg	2	1
OR6368-20	40S020	4/24/99 12:48	8310	Benzo(a)pyrene	2	U	1	µg/Kg	2	1
OR6368-20	40S020	4/24/99 12:48	8310	Dibenzo(a,h)anthracene	36		1	µg/Kg	3.4	2.4
OR6368-20	40S020	4/24/99 12:48	8310	Benzo(g,h,i)perylene	3.4	U	1	µg/Kg	3.4	2.4
OR6368-20	40S020	4/24/99 12:48	8310	Indeno(1,2,3-cd)pyrene	1.7	U	1	µg/Kg	1.7	0.69
OR6368-20	40S020	4/24/99 12:48	8310	p-Terphenyl	90		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-20	40S020	4/24/99 12:48	6010	Arsenic	0.5	U	1	mg/Kg	0.5	0.4

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-20	40S020	4/24/99 12:48	SM2540G	Percent Solids	97			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6368
		Date Submitted:	26-Apr-99
		Date Reported:	5-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC-Orlando SCA

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-21	40S021	4/24/99 13:00	8310	Naphthalene	17	U	1	µg/Kg	17	6.9
OR6368-21	40S021	4/24/99 13:00	8310	Acenaphthylene	34	U	1	µg/Kg	34	3.4
OR6368-21	40S021	4/24/99 13:00	8310	1-Methylnaphthalene	34	U	1	µg/Kg	34	3.4
OR6368-21	40S021	4/24/99 13:00	8310	2-Methylnaphthalene	34	U	1	µg/Kg	34	6.9
OR6368-21	40S021	4/24/99 13:00	8310	Acenaphthene	17	U	1	µg/Kg	17	6.9
OR6368-21	40S021	4/24/99 13:00	8310	Fluorene	3.4	U	1	µg/Kg	3.4	1.4
OR6368-21	40S021	4/24/99 13:00	8310	Phenanthrene	34	U	1	µg/Kg	34	1.4
OR6368-21	40S021	4/24/99 13:00	8310	Anthracene	2	U	1	µg/Kg	2	1
OR6368-21	40S021	4/24/99 13:00	8310	Fluoranthene	3.4	U	1	µg/Kg	3.4	1.4
OR6368-21	40S021	4/24/99 13:00	8310	Pyrene	1.7	U	1	µg/Kg	1.7	1.4
OR6368-21	40S021	4/24/99 13:00	8310	Benzo(a)anthracene	1.7	U	1	µg/Kg	1.7	0.69
OR6368-21	40S021	4/24/99 13:00	8310	Chrysene	1.7	U	1	µg/Kg	1.7	0.69
OR6368-21	40S021	4/24/99 13:00	8310	Benzo(b)fluoranthene	3	U	1	µg/Kg	3	2
OR6368-21	40S021	4/24/99 13:00	8310	Benzo(k)fluoranthene	2	U	1	µg/Kg	2	1
OR6368-21	40S021	4/24/99 13:00	8310	Benzo(a)pyrene	2	U	1	µg/Kg	2	1
OR6368-21	40S021	4/24/99 13:00	8310	Dibenzo(a,h)anthracene	3.4	U	1	µg/Kg	3.4	2.4
OR6368-21	40S021	4/24/99 13:00	8310	Benzo(g,h,i)perylene	3.4	U	1	µg/Kg	3.4	2.4
OR6368-21	40S021	4/24/99 13:00	8310	Indeno(1,2,3-cd)pyrene	1.7	U	1	µg/Kg	1.7	0.69
OR6368-21	40S021	4/24/99 13:00	8310	p-Terphenyl	84		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-21	40S021	4/24/99 13:00	6010	Arsenic	0.5	U	1	mg/Kg	0.5	0.4

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-21	40S021	4/24/99 13:00	SM2540G	Percent Solids	97			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6368
		Date Submitted:	26-Apr-99
		Date Reported:	5-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC-Orlando SCA

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-22	40S022	4/24/99 13:10	8310	Naphthalene	17	U	1	µg/Kg	17	6.8
OR6368-22	40S022	4/24/99 13:10	8310	Acenaphthylene	34	U	1	µg/Kg	34	3.4
OR6368-22	40S022	4/24/99 13:10	8310	1-Methylnaphthalene	34	U	1	µg/Kg	34	3.4
OR6368-22	40S022	4/24/99 13:10	8310	2-Methylnaphthalene	34	U	1	µg/Kg	34	6.8
OR6368-22	40S022	4/24/99 13:10	8310	Acenaphthene	17	U	1	µg/Kg	17	6.8
OR6368-22	40S022	4/24/99 13:10	8310	Fluorene	3.4	U	1	µg/Kg	3.4	1.4
OR6368-22	40S022	4/24/99 13:10	8310	Phenanthrene	34	U	1	µg/Kg	34	1.4
OR6368-22	40S022	4/24/99 13:10	8310	Anthracene	2	U	1	µg/Kg	2	1
OR6368-22	40S022	4/24/99 13:10	8310	Fluoranthene	3.4	U	1	µg/Kg	3.4	1.4
OR6368-22	40S022	4/24/99 13:10	8310	Pyrene	1.7	U	1	µg/Kg	1.7	1.4
OR6368-22	40S022	4/24/99 13:10	8310	Benzo(a)anthracene	1.7	U	1	µg/Kg	1.7	0.68
OR6368-22	40S022	4/24/99 13:10	8310	Chrysene	1.7	U	1	µg/Kg	1.7	0.68
OR6368-22	40S022	4/24/99 13:10	8310	Benzo(b)fluoranthene	3	U	1	µg/Kg	3	2
OR6368-22	40S022	4/24/99 13:10	8310	Benzo(k)fluoranthene	2	U	1	µg/Kg	2	1
OR6368-22	40S022	4/24/99 13:10	8310	Benzo(a)pyrene	2	U	1	µg/Kg	2	1
OR6368-22	40S022	4/24/99 13:10	8310	Dibenzo(a,h)anthracene	3.4	U	1	µg/Kg	3.4	2.4
OR6368-22	40S022	4/24/99 13:10	8310	Benzo(g,h,i)perylene	3.4	U	1	µg/Kg	3.4	2.4
OR6368-22	40S022	4/24/99 13:10	8310	Indeno(1,2,3-cd)pyrene	1.7	U	1	µg/Kg	1.7	0.68
OR6368-22	40S022	4/24/99 13:10	8310	p-Terphenyl	96		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-22	40S022	4/24/99 13:10	6010	Arsenic	0.5	U	1	mg/Kg	0.5	0.4

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-22	40S022	4/24/99 13:10	SM2540G	Percent Solids	98			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6368
		Date Submitted:	26-Apr-99
		Date Reported:	5-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC-Orlando SCA

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-23	40S023	4/24/99 13:15	8310	Naphthalene	17	U	1	µg/Kg	17	6.8
OR6368-23	40S023	4/24/99 13:15	8310	Acenaphthylene	34	U	1	µg/Kg	34	3.3
OR6368-23	40S023	4/24/99 13:15	8310	1-Methylnaphthalene	34	U	1	µg/Kg	34	3.3
OR6368-23	40S023	4/24/99 13:15	8310	2-Methylnaphthalene	34	U	1	µg/Kg	34	6.8
OR6368-23	40S023	4/24/99 13:15	8310	Acenaphthene	17	U	1	µg/Kg	17	6.8
OR6368-23	40S023	4/24/99 13:15	8310	Fluorene	3.4	U	1	µg/Kg	3.4	1.3
OR6368-23	40S023	4/24/99 13:15	8310	Phenanthrene	34	U	1	µg/Kg	34	1.3
OR6368-23	40S023	4/24/99 13:15	8310	Anthracene	2	U	1	µg/Kg	2	1
OR6368-23	40S023	4/24/99 13:15	8310	Fluoranthene	17		1	µg/Kg	3.4	1.3
OR6368-23	40S023	4/24/99 13:15	8310	Pyrene	8.8		1	µg/Kg	1.7	1.3
OR6368-23	40S023	4/24/99 13:15	8310	Benzo(a)anthracene	3		1	µg/Kg	1.7	0.68
OR6368-23	40S023	4/24/99 13:15	8310	Chrysene	8		1	µg/Kg	1.7	0.68
OR6368-23	40S023	4/24/99 13:15	8310	Benzo(b)fluoranthene	8		1	µg/Kg	3	2
OR6368-23	40S023	4/24/99 13:15	8310	Benzo(k)fluoranthene	5		1	µg/Kg	2	1
OR6368-23	40S023	4/24/99 13:15	8310	Benzo(a)pyrene	9		1	µg/Kg	2	1
OR6368-23	40S023	4/24/99 13:15	8310	Dibenzo(a,h)anthracene	14		1	µg/Kg	3.4	2.4
OR6368-23	40S023	4/24/99 13:15	8310	Benzo(g,h,i)perylene	6.4	I	1	µg/Kg	3.4	2.4
OR6368-23	40S023	4/24/99 13:15	8310	Indeno(1,2,3-cd)pyrene	6.8		1	µg/Kg	1.7	0.68
OR6368-23	40S023	4/24/99 13:15	8310	p-Terphenyl	88		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-23	40S023	4/24/99 13:15	6010	Arsenic	1.6	I	1	mg/Kg	0.5	0.4

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6368-23	40S023	4/24/99 13:15	SM2540G	Percent Solids	99			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.
I = analyte detected; value is beween the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

QS # _____

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: NTC Orlando | PROJECT NO.: SA-40 | P.O. NUMBER:

PROJECT LOC. (State): FL. | SAMPLER(s) NAME: Rusty Cope | PHONE: 496-2173 | FAX: 1-843-743-2801

CLIENT NAME: ENV. Detachment CHASN | CLIENT PROJECT MANAGER: A. Moyer

CLIENT ADDRESS (CITY, STATE, ZIP): 1899 N. Hobson Ave, N. Charleston SC 29405

PAGE 1 OF 2

☐ STANDARD REPORT DELIVERY

☐ EXPEDITED REPORT DELIVERY (surcharge)

Date Due: 4/30/99

SAMPLE STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	MATRIX TYPE: SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	REQUIRED ANALYSIS: ARSENIC	PAH	NUMBER OF CONTAINERS SUBMITTED	REMARKS
1	4/24/99	1005	X		40S001					X					X	X		
2		1010	X		40S002					X					X	X		
3		1014	X		40S003					X					X	X		
4		1020	X		40S004					X					X	X		
5		1030	X		40S005					X					X	X		
6		1036	X		40S006					X					X	X		
7		1044	X		40S007					X					X	X		
8		1050	X		40S008					X					X	X		
9		1055	X		40S009					X					X	X		
10		1104	X		40S010					X					X	X		
11		1110	X		40S011					X					X	X		
12		1120	X		40S012					X					X	X		
13		1145	X		40S013					X					X	X		
14		1200	X		40S014					X					X	X		

	DATE	TIME		DATE	TIME		DATE	TIME
SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO			RELINQUISHED BY: (SIGNATURE)			RECEIVED BY: (SIGNATURE)		
RELINQUISHED BY: (SIGNATURE) R W Cope Jr	4/27/99	0900	RECEIVED BY: (SIGNATURE)			RELINQUISHED BY: (SIGNATURE)		
RECEIVED BY (SIGNATURE)	4/27/99	0900	RELINQUISHED BY: (SIGNATURE)			RECEIVED BY: (SIGNATURE)		

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS
☐ Jacksonville ☐ Orlando	4-26-99	1:10	☐ YES ☐ NO	OR6364	

QSARF #_____

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: NTC Orlando | PROJECT NO. | P.O. NUMBER

PROJECT LOC. (State): FL | SAMPLER(S) NAME: Rusty Cope | PHONE: 496-2173 | FAX

CLIENT NAME: Env. Det Chasn | CLIENT PROJECT MANAGER: A. Moyer

CLIENT ADDRESS (CITY, STATE, ZIP): 1899 N. Hobson Ave N. Chas., SC 29405

PAGE 2 OF 2

☐ STANDARD REPORT DELIVERY

☐ EXPEDITED REPORT DELIVERY (surcharge)

Date Due: 4/30/99

STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	MATRIX TYPE: SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	REQUIRED ANALYSIS: Arsenic	PAH	NUMBER OF CONTAINERS SUBMITTED	REMARKS
1	4/24/99	1210	X		40S015					X					X	X		
2	4/24/99	1217	X		40S016					X					X	X		
3	4/24/99	1224	X		40S017					X					X	X		
4	4/24/99	1231	X		40S018					X					X	X		
5		1240	X		40S019					X					X	X		
6		1248	X		40S020					X					X	X		
7		1300	X		40S021					X					X	X		
8		1310	X		40S022					X					X	X		~~Split~~ Rwc
9		1315	X		40S023					X					X	X		Split Rwc Split
10		1300	X		40C024					X					X	X		Duplicate of 40S021
11																		
12																		
13																		
14																		

SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
RELINQUISHED BY: (SIGNATURE) K W Cope	4/27/99	0900	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	4/27/99	0900	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS
K. Armstrong ☐ Jacksonville ☐ Orlando	4/28/99	11:10	☐ YES ☐ NO	OR6364	

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 18, 1999

Sample ID	: 99SPORT0180-1
Lab ID	: 9905413-01
Matrix	: Soil
Date Collected	: 05/12/99
Date Received	: 05/13/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic		830	433	476	ug/kg	2.0	MBL	05/15/99	1456	149142	1
The following prep procedures were performed:											
TRACE							FGD	05/14/99	1200	149142	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905413-01

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8745
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 18, 1999

Sample ID	: 99SPORT0180-2
Lab ID	: 9905413-02
Matrix	: Soil
Date Collected	: 05/12/99
Date Received	: 05/13/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
tractable Organics											
lynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	157	330	ug/kg	1.0	JPA	05/17/99	1822	149112	1
Acenaphthylene	U	ND	144	330	ug/kg	1.0					
Anthracene	U	ND	85.3	330	ug/kg	1.0					
Benzo(a)anthracene	U	ND	65.6	330	ug/kg	1.0					
Benzo(a)pyrene	U	ND	72.2	330	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	141	330	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	78.7	330	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	131	330	ug/kg	1.0					
Chrysene	U	ND	52.5	330	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	82.0	330	ug/kg	1.0					
Fluoranthene	U	ND	65.6	330	ug/kg	1.0					
Fluorene	U	ND	112	330	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	78.7	330	ug/kg	1.0					
Naphthalene	U	ND	154	330	ug/kg	1.0					
Phenanthrene	U	ND	59.0	330	ug/kg	1.0					
Pyrene	U	ND	72.2	330	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds RDH 05/17/99 1300 149112 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
Fluorobiphenyl	M610	51.1	(44.7 - 110.)
robenzene-d5	M610	43.3	(42.4 - 107.)
p-Terphenyl-d14	M610	74.0	(45.5 - 104.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905413-02

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8745
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 18, 1999

Sample ID : 99SPORT0180-2

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

IV OCOUNT ... DAY TURN AROUND

CHAIN OF CUSTODY RECORD

9905413 %

Page 1 of 1

General Engineering Laboratories, Inc.
2040 Savage Road
Charleston, South Carolina 407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Client Name/Facility Name: NTC ORLANDO

Collected by/Company: ENV DET CHAS

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	ARSENIC ICP	PAH 8270	Remarks
01 99SPORT0180-1	5/12/99	1750		X		X	1																X		SA400565 .1
02 99SPORT0180-2	5/12/99	1755		X		X	1																	X	SA400568 .2
03 99SPORT0180-3	5/12/99	1800		X		X	1																X		SA400571 .1
04 99SPORT0180-4	5/12/99	1805		X		X	1																X		SA400574 .1

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

40223

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
Alan J Moya	5/14/99	1900					
Relinquished by:	Date:	Time:	Received by lab by:	Date:	Time:	Remarks:	
				5/12/99	930		

White ... ple collector Yellow = file Pink = with report

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 11, 1999

Sample ID	: 99SPORT0172-4
Lab ID	: 9905240-04
Matrix	: Soil
Date Collected	: 05/06/99
Date Received	: 05/07/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
lynuclear Aromatic Hydrocarbons - 16 items											
.cenaphthene	U	ND	157	330	ug/kg	1.0	MKP	05/11/99	0504	148656	1
Acenaphthylene	U	ND	144	330	ug/kg	1.0					
Anthracene	U	ND	85.3	330	ug/kg	1.0					
Benzo(a)anthracene	U	ND	65.6	330	ug/kg	1.0					
Benzo(a)pyrene	U	ND	72.2	330	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	141	330	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	78.7	330	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	131	330	ug/kg	1.0					
Chrysene	U	ND	52.5	330	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	82.0	330	ug/kg	1.0					
Fluoranthene	U	ND	65.6	330	ug/kg	1.0					
Fluorene	U	ND	112	330	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	78.7	330	ug/kg	1.0					
Naphthalene	U	ND	154	330	ug/kg	1.0					
Phenanthrene	U	ND	59.0	330	ug/kg	1.0					
Pyrene	U	ND	72.2	330	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds RDH 05/10/99 0900 148656 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
?-Fluorobiphenyl	M610	50.0	(44.7 - 110.)
obenzene-d5	M610	49.8	(42.4 - 107.)
erphenyl-d14	M610	62.2	(45.5 - 104.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905240-04

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8745
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 11, 1999

Sample ID : 99SPORT0172-4

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

es:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874.
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 11, 1999

Sample ID	: 99SPORT0172-5
Lab ID	: 9905240-05
Matrix	: Soil
Date Collected	: 05/06/99
Date Received	: 05/07/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	157	330	ug/kg	1.0	MKP	05/11/99	0533	148656	1
Acenaphthylene	U	ND	144	330	ug/kg	1.0					
Anthracene	U	ND	85.3	330	ug/kg	1.0					
Benzo(a)anthracene	U	ND	65.6	330	ug/kg	1.0					
Benzo(a)pyrene	U	ND	72.2	330	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	141	330	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	78.7	330	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	131	330	ug/kg	1.0					
Chrysene	U	ND	52.5	330	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	82.0	330	ug/kg	1.0					
Fluoranthene	U	ND	65.6	330	ug/kg	1.0					
Fluorene	U	ND	112	330	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	J	102	78.7	330	ug/kg	1.0					
Naphthalene	U	ND	154	330	ug/kg	1.0					
Phenanthrene	J	75.9	59.0	330	ug/kg	1.0					
Pyrene	J	111	72.2	330	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds RDH 05/10/99 0900 148656 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	53.8	(44.7 - 110.)
Nitrobenzene-d5	M610	55.0	(42.4 - 107.)
Terphenyl-d14	M610	70.7	(45.5 - 104.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905240-05

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 11, 1999

Sample ID : 99SPORT0172-5

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

EHanson

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.
9905240-05

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 11, 1999

Sample ID	: 99SPORT0172-8
Lab ID	: 9905240-08
Matrix	: Soil
Date Collected	: 05/06/99
Date Received	: 05/07/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
olynuclear Aromatic Hydrocarbons - 16 items											
cenaphthene	U	ND	630	1310	ug/kg	4.0	MKP	05/11/99	0700	148656	1
Acenaphthylene	U	ND	577	1310	ug/kg	4.0					
Anthracene	U	ND	341	1310	ug/kg	4.0					
Benzo(a)anthracene	U	ND	262	1310	ug/kg	4.0					
Benzo(a)pyrene	U	ND	289	1310	ug/kg	4.0					
Benzo(b)fluoranthene	U	ND	564	1310	ug/kg	4.0					
Benzo(ghi)perylene	U	ND	315	1310	ug/kg	4.0					
Benzo(k)fluoranthene	U	ND	525	1310	ug/kg	4.0					
Chrysene	J	314	210	1310	ug/kg	4.0					
Dibenzo(a,h)anthracene	U	ND	328	1310	ug/kg	4.0					
Fluoranthene	J	334	262	1310	ug/kg	4.0					
Fluorene	U	ND	446	1310	ug/kg	4.0					
Indeno(1,2,3-c,d)pyrene	J	455	315	1310	ug/kg	4.0					
Naphthalene	U	ND	617	1310	ug/kg	4.0					
Phenanthrene	U	ND	236	1310	ug/kg	4.0					
Pyrene	J	582	289	1310	ug/kg	4.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds RDH 05/10/99 0900 148656 2

Comments:

Surrogate recovery fails due to sample dilution.

P O Box 30712 • Charleston. SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905240-08

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 11, 1999

Sample ID : 99SPORT0172-8

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	0.00*	(44.7 - 110.)
Nitrobenzene-d5	M610	0.00*	(42.4 - 107.)
Terphenyl-d14	M610	57.5	(45.5 - 104.)

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:.
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 11, 1999

Sample ID	: 99SPORT0172-11
Lab ID	: 9905240-11
Matrix	: Soil
Date Collected	: 05/06/99
Date Received	: 05/07/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic		2120	450	495	ug/kg	2.0	MBL	05/10/99	1419	148650	1
The following prep procedures were performed:											
TRACE							FGD	05/10/99	1000	148650	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905240-11

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 11, 1999

Sample ID	: 99SPORT0172-12
Lab ID	: 9905240-12
Matrix	: Soil
Date Collected	: 05/06/99
Date Received	: 05/07/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic		1890	450	495	ug/kg	2.0	MBL	05/10/99	1425	148650	
The following prep procedures were performed:											
TRACE							FGD	05/10/99	1000	148650	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905240-12

1PWC00197

CHAIN OF CUSTODY RECORD

9905240%

General Engineering La ries, Inc.
2040 Savage Road
Charleston, South Carol .07
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Page 1 of 2

Client Name/Facility Name: NTC Orlando

Collected by/Company: Env Det Chas

	SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide 8081	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Arsenic	PAH 8270	Remarks
-01	99Sport0172-1	5/6/99	1350		X		X	1								X										SA9-11 .1
-02	99Sport0172-2	5/6/99	1352		X		X	1																X		SA9-12 1 .2
-03	99Sport0172-3	5/6/99	1615		X		X	1																	X	SA40S050 .3
-04	99Sport0172-4	5/6/99	1620		X		X	1																	X	SA40S051 .3
-05	99Sport0172-5	5/6/99	1625		X		X	1																	X	SA40S052 .3
-06	99Sport0172-6	5/6/99	1632		X		X	1																	X	SA40S053 .3
-07	99Sport0172-7	5/6/99	1640		X		X	1																	X	SA40S054 .3
-08	99Sport0172-8	5/6/99	1645		X		X	1																	X	SA40S055 .3
-09	99Sport0172-9	5/6/99	1652		X		X	1																	X	SA40S056 .3
-10	99Sport0172-10	5/6/99	1617		X		X	1																X		SA40S057 .2
-11	99Sport0172-11	5/6/99	1622		X		X	1																X		SA40S058 .2
-12	99Sport0172-12	5/6/99	1627		X		X	1																X		SA40S059 .2
-13	99Sport0172-13	5/6/99	1634		X		X	1																X		SA40S060 .2

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

3 DAY 40090 Turnaround

Remarks

Relinquished by: K W Cope — Date: 5/6/99 — Time: 1845 — Received by: — Received by lab by: A. Mauk

Relinquished by: — Date: — Time: — Relinquished by: — Date: — Time: — Received by:

Date: 5-7-99 Time: 10:30 Remarks:

White = sample collector Yellow = file Pink = with report

DWC00197

General Engineering Lab[illegible]ries, Inc.
2040 Savage Road
Charleston, South Carol[illegible]407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

CHAIN OF CUSTODY RECORD

Page 2 of 2

99052407

Client Name/Facility Name: NTC ORlando

Collected by/Company: Env DET CHAS

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Arsenic ICP	Remarks
-14 99Sport0172-14	5/6/99	1643	X			X	1																X	SA40S061 .2
-15 99Sport0172-15	5/6/99	1648	X			X	1																X	SA40S062 .2
-16 99Sport0172-16	5/6/99	1655	X			X	1																X	SA40S063 .2

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

3 DAY TURNaround 40090

Relinquished by: K W Pope — Date: 5/6/99 — Time: 1845 — Received by:

Relinquished by: — Date: — Time: — Received by lab by: P. Powers

Relinquished by: — Date: — Time: — Received by:

Date: 5-7-99 — Time: 10:30 — Remarks:

White = sample collector Yellow = file Pink = with report

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 18, 1999

Sample ID	: 99SPORT0181-2
Lab ID	: 9905414-02
Matrix	: Soil
Date Collected	: 05/12/99
Date Received	: 05/13/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
xtractable Organics											
olynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	157	330	ug/kg	1.0	EH1	05/14/99	2003	149112	1
Acenaphthylene	U	ND	144	330	ug/kg	1.0					
Anthracene	U	ND	85.3	330	ug/kg	1.0					
Benzo(a)anthracene	U	ND	65.6	330	ug/kg	1.0					
Benzo(a)pyrene	U	ND	72.2	330	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	141	330	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	78.7	330	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	131	330	ug/kg	1.0					
Chrysene	U	ND	52.5	330	ug/kg	1.0					
Dibenzo(a.h)anthracene	U	ND	82.0	330	ug/kg	1.0					
Fluoranthene	U	ND	65.6	330	ug/kg	1.0					
Fluorene	U	ND	112	330	ug/kg	1.0					
Indeno(1.2.3-c.d)pyrene	U	ND	78.7	330	ug/kg	1.0					
Naphthalene	U	ND	154	330	ug/kg	1.0					
Phenanthrene	U	ND	59.0	330	ug/kg	1.0					
Pyrene	U	ND	72.2	330	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds RDH 05/14/99 1300 149112 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
?-Fluorobiphenyl	M610	61.5	(44.7 - 110.)
.itrobenzene-d5	M610	64.8	(42.4 - 107.)
p-Terphenyl-d14	M610	72.5	(45.5 - 104.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905414-02

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 18, 1999

Sample ID : 99SPORT0181-2

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

VPWC00197 5 DAY T(A.ROUND

CHAIN OF CUSTODY RECORD

9905414%

2040 Savage Road
Charleston, South Carolina 29407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Page 1 of 1

Client Name/Facility Name: NTC ORLANDO

Collected by/Company: ENV DET CHASN

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	ARSENIC ICP	PAH 8270	Remarks
-01 99SPORTO181-1	5/12/99	1810		X		X																	X		SA40056 .1
-02 99SPORTO181-2	5/12/99	1815		X		X																		X	SA40569 .2
-03 99SPORTO181-3	5/12/99	1820		X		X																	X		SA40072 .1
-04 99SPORTO181-4	5/12/99	1825		X		X																	X		SA40075 .1

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

40224

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
Alan J Moya	5/12/99	1900					
Relinquished by:	Date:	Time:	Received by lab by:	Date: 5/13/99	Time: 9:30	Remarks:	

White - ...ple collector Yellow = file Pink = with report

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 21, 1999

Sample ID	: 99SPORT0186-1
Lab ID	: 9905646-01
Matrix	: Soil
Date Collected	: 05/18/99
Date Received	: 05/19/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic	U	ND	446	490	ug/kg	2.0	MBL	05/20/99	1919	149491	
The following prep procedures were performed:											
TRACE							AJM	05/19/99	1715	149491	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson
viewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905646-01

General Engineering Laboratories, Inc.
2040 Savage Road
Charleston, South Carolina 29407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

CHAIN OF CUSTODY RECORD

9905646 %

Page 1 of 1

Client Name/Facility Name: NTC Orlando

Collected by/Company: ENV DET Chasn

	SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify, Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Arsenic ICP	Remarks
01	99Sport0186-1	5/18/99	0950		X		X	1																X	SA40S076@20'
02	99Sport0186-2	5/18/99	0955		X		X	1																X	SA40S077@25'

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

10343

3 DAY

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
DW Cope	5/18/99	1500					
Relinquished by:	**Date:**	**Time:**	**Received by lab by:**	**Date:**	**Time:**	**Remarks:**	
			Shaun	5/19/99	1000		

White = sample collector Yellow = file Pink = with report

Client:	Environmental Detachment Charleston	Report #:	OR6461
		Date Submitted:	3-May-99
		Date Reported:	6-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-8	SA40SO32	5/2/99 11:10	7060	Arsenic	0.4	U		mg/Kg	0.4	0.05
SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-8	SA40SO32	5/2/99 11:10	SM2540G	Percent Solids	93			%		

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6461
		Date Submitted:	3-May-99
		Date Reported:	6-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-9	SA40SO33	5/2/99 11:15	7060	Arsenic	0.5	U		mg/Kg	0.5	0.06

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-9	SA40SO33	5/2/99 11:15	SM2540G	Percent Solids	86			%		

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6461
		Date Submitted:	3-May-99
Address:	1899 N. Hobson Ave	Date Reported:	6-May-99
	Charleston, SC 29405-2106	Project #:	SA-40
		Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-10	SA40SO34	5/2/99 11:20	7060	Arsenic	1.5			mg/Kg	0.4	0.05
SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-10	SA40SO34	5/2/99 11:20	SM2540G	Percent Solids	93			%		

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6461
		Date Submitted:	3-May-99
		Date Reported:	6-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-11	SA40SO35	5/2/99 11:25	7060	Arsenic	0.4	U		mg/Kg	0.4	0.05

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-11	SA40SO35	5/2/99 11:25	SM2540G	Percent Solids	96			%		

U = Compound was analyzed for but not detected to the level shown.

QSARF #_____

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: NTC Orlando | PROJECT NO.: SA-40 | P.O. NUMBER:
PROJECT LOC. (State): FL | SAMPLER(s) NAME: Rusty Cope | PHONE: 496-2173 | FAX:
CLIENT NAME: Environmental Detachment Chas. | CLIENT PROJECT MANAGER: A.J. Moyer
CLIENT ADDRESS (CITY, STATE, ZIP): 1899 N Hobson Ave N. Chas. S.C. 29405

PAGE ____ OF ____

☐ STANDARD REPORT DELIVERY
☐ EXPEDITED REPORT DELIVERY (surcharge)
Date Due: _____

STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	MATRIX TYPE: SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	REQUIRED ANALYSIS: TCLP metals	VOC 8021	Arsenic	NUMBER OF CONTAINERS SUBMITTED	REMARKS
1	5/3/99	1240		X	SA40S025					X					1				Profiles for Land Disposal
2	5/3/99	1220		X	SA40S026					X					1				
3	5/3/99	1200		X	SA40S027					X					1				
4	5/3/99	1140		X	SA40S028					X					1				
5	5/3/99	1130		X	SA40S029					X					1				
6	5/3/99	1115		X	SA40S030					X					1				
7	5/3/99	1050		X	SA40S031					X					1				
8 ✓	5/2/99	1110	X		SA40S032					X						1			
9 ✓	5/2/99	1115	X		SA40S033					X						1			
10 ✓	5/2/99	1120	X		SA40S034					X						1			
11 ✓	5/2/99	1125	X		SA40S035					X						1			
12	5/3/99	1233	X		SA40S036										1				
13	5/3/99	1235	X		SA40S037										1				
14	5/3/99	1220	X		SA40S038										1				

SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
			K W Cope	5/3/99	1415	James W. Gregory	5/3/99	1415
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) ☐ Jacksonville ☐ Orlando	DATE	TIME	CUSTODY INTACT ☐ YES ☐ NO	ENCO LOG NO.	REMARKS
	5-3-99	3:30		QR64	

WASTE CHARACTERIZATION

Environmental Conservation Laboratories
10207 General Drive
rlando, Florida 32824-8529
07 / 826-5314
Fax 407 / 850-6945
www.encolabs.com

ENCO Laboratories

DHRS Certification No. E83182

CLIENT : Environmental Detachment
ADDRESS: Charleston
1899 N. Hobson Ave
Charleston, SC 29405-2106

REPORT # : OR6461
DATE SUBMITTED: May 3, 1999
DATE REPORTED : May 6, 1999

ATTENTION: Rusty Cope

SAMPLE IDENTIFICATION

Samples submitted and
identified by client as:

PROJECT #: SA-40

NTC Orlando

#1 - SA40SO25 @ 12:40 (05/03/99)
#2 - SA40SO26 @ 12:20 (05/03/99)
#3 - SA40SO27 @ 12:00 (05/03/99)
#4 - SA40S028 @ 11:40 (05/03/99)
#5 - SA40SO29 @ 11:30 (05/03/99)
#6 - SA40SO30 @ 11:15 (05/03/99)
#7 - SA40SO31 @ 10:50 (05/03/99)
#8 - SA40SO32 @ 11:10 (05/02/99)
#9 - SA40SO33 @ 11:15 (05/02/99)
#10 - SA40SO34 @ 11:20 (05/02/99)
#11 - SA40SO35 @ 11:25 (05/02/99)
#12 - SA40SO36 @ 12:33 (05/03/99)
#13 - SA40SO37 @ 12:35 (05/03/99)
#14 - SA40SO38 @ 12:20 (05/03/99)

ECT MANAGER

David Vesey

Environmental Conservation Laboratories
10207 General Drive
rlando, Florida 32824-8529
.07 / 826-5314
Fax 407 / 850-6945
www.encolabs.com

ENCO Laboratories

DHRS Certification No. E83182

Client:	Environmental Detachment Charleston	Report #:	OR6461
		Date Submitted:	3-May-99
		Date Reported:	6-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-1	SA40SO25	5/3/99 12:40	1311/7060	TCLP Arsenic	0.05	U		mg/L	0.05	0.005
OR6461-1	SA40SO25	5/3/99 12:40	1311/7080	TCLP Barium	2	U		mg/L	2	2
OR6461-1	SA40SO25	5/3/99 12:40	1311/7130	TCLP Cadmium	0.1	U		mg/L	0.1	0.015
OR6461-1	SA40SO25	5/3/99 12:40	1311/7190	TCLP Chromium	0.5	U		mg/L	0.5	0.1
OR6461-1	SA40SO25	5/3/99 12:40	1311/7420	TCLP Lead	0.5	U		mg/L	0.5	0.1
OR6461-1	SA40SO25	5/3/99 12:40	1311/7470	TCLP Mercury	0.005	U		mg/L	0.005	0.001
OR6461-1	SA40SO25	5/3/99 12:40	1311/7740	TCLP Selenium	0.05	U		mg/L	0.05	0.015
OR6461-1	SA40SO25	5/3/99 12:40	1311/7760	TCLP Silver	0.2	U		mg/L	0.2	0.1

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6461
		Date Submitted:	3-May-99
		Date Reported:	6-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-2	SA40SO26	5/3/99 12:20	1311/7060	TCLP Arsenic	0.05	U		mg/L	0.05	0.005
OR6461-2	SA40SO26	5/3/99 12:20	1311/7080	TCLP Barium	2	I		mg/L	2	2
OR6461-2	SA40SO26	5/3/99 12:20	1311/7130	TCLP Cadmium	0.1	U		mg/L	0.1	0.015
OR6461-2	SA40SO26	5/3/99 12:20	1311/7190	TCLP Chromium	0.5	U		mg/L	0.5	0.1
OR6461-2	SA40SO26	5/3/99 12:20	1311/7420	TCLP Lead	0.5	U		mg/L	0.5	0.1
OR6461-2	SA40SO26	5/3/99 12:20	1311/7470	TCLP Mercury	0.005	U		mg/L	0.005	0.001
OR6461-2	SA40SO26	5/3/99 12:20	1311/7740	TCLP Selenium	0.05	U		mg/L	0.05	0.015
OR6461-2	SA40SO26	5/3/99 12:20	1311/7760	TCLP Silver	0.2	U		mg/L	0.2	0.1

U = Compound was analyzed for but not detected to the level shown.
I = Analyte deteched; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

Client:	Environmental Detachment Charleston	Report #:	OR6461
		Date Submitted:	3-May-99
		Date Reported:	6-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-3	SA40SO27	5/3/99 12:00	1311/7060	TCLP Arsenic	0.05	U		mg/L	0.05	0.005
SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-3	SA40SO27	5/3/99 12:00	1311/7080	TCLP Barium	2	U		mg/L	2	2
SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-3	SA40SO27	5/3/99 12:00	1311/7130	TCLP Cadmium	0.1	U		mg/L	0.1	0.015
SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-3	SA40SO27	5/3/99 12:00	1311/7190	TCLP Chromium	0.5	U		mg/L	0.5	0.1
SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-3	SA40SO27	5/3/99 12:00	1311/7420	TCLP Lead	0.5			mg/L	0.5	0.1
SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-3	SA40SO27	5/3/99 12:00	1311/7470	TCLP Mercury	0.005	U		mg/L	0.005	0.001
SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-3	SA40SO27	5/3/99 12:00	1311/7740	TCLP Selenium	0.05	U		mg/L	0.05	0.015
SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-3	SA40SO27	5/3/99 12:00	1311/7760	TCLP Silver	0.2	U		mg/L	0.2	0.1

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6461
		Date Submitted:	3-May-99
		Date Reported:	6-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-4	SA40S028	5/3/99 11:40	1311/7060	TCLP Arsenic	0.05	U		mg/L	0.05	0.005
OR6461-4	SA40S028	5/3/99 11:40	1311/7080	TCLP Barium	3	I		mg/L	2	2
OR6461-4	SA40S028	5/3/99 11:40	1311/7130	TCLP Cadmium	0.1	U		mg/L	0.1	0.015
OR6461-4	SA40S028	5/3/99 11:40	1311/7190	TCLP Chromium	0.5	U		mg/L	0.5	0.1
OR6461-4	SA40S028	5/3/99 11:40	1311/7420	TCLP Lead	0.5	U		mg/L	0.5	0.1
OR6461-4	SA40S028	5/3/99 11:40	1311/7470	TCLP Mercury	0.005	U		mg/L	0.005	0.001
OR6461-4	SA40S028	5/3/99 11:40	1311/7740	TCLP Selenium	0.05	U		mg/L	0.05	0.015
OR6461-4	SA40S028	5/3/99 11:40	1311/7760	TCLP Silver	0.2	U		mg/L	0.2	0.1

U = Compound was analyzed for but not detected to the level shown.
I = Analyte deteched; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

Client:	Environmental Detachment Charleston	Report #:	OR6461
		Date Submitted:	3-May-99
		Date Reported:	6-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-5	SA40SO29	5/3/99 11:30	1311/7060	TCLP Arsenic	0.05	U		mg/L	0.05	0.005
OR6461-5	SA40SO29	5/3/99 11:30	1311/7080	TCLP Barium	2	U		mg/L	2	2
OR6461-5	SA40SO29	5/3/99 11:30	1311/7130	TCLP Cadmium	0.1	U		mg/L	0.1	0.015
OR6461-5	SA40SO29	5/3/99 11:30	1311/7190	TCLP Chromium	0.5	U		mg/L	0.5	0.1
OR6461-5	SA40SO29	5/3/99 11:30	1311/7420	TCLP Lead	0.5	U		mg/L	0.5	0.1
OR6461-5	SA40SO29	5/3/99 11:30	1311/7470	TCLP Mercury	0.005	U		mg/L	0.005	0.001
OR6461-5	SA40SO29	5/3/99 11:30	1311/7740	TCLP Selenium	0.05	U		mg/L	0.05	0.015
OR6461-5	SA40SO29	5/3/99 11:30	1311/7760	TCLP Silver	0.2	U		mg/L	0.2	0.1

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6461
		Date Submitted:	3-May-99
		Date Reported:	6-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-6	SA40SO30	5/3/99 11:15	1311/7060	TCLP Arsenic	0.05	U		mg/L	0.05	0.005
OR6461-6	SA40SO30	5/3/99 11:15	1311/7080	TCLP Barium	2	U		mg/L	2	2
OR6461-6	SA40SO30	5/3/99 11:15	1311/7130	TCLP Cadmium	0.1	U		mg/L	0.1	0.015
OR6461-6	SA40SO30	5/3/99 11:15	1311/7190	TCLP Chromium	0.5	U		mg/L	0.5	0.1
OR6461-6	SA40SO30	5/3/99 11:15	1311/7420	TCLP Lead	0.5	U		mg/L	0.5	0.1
OR6461-6	SA40SO30	5/3/99 11:15	1311/7470	TCLP Mercury	0.005	U		mg/L	0.005	0.001
OR6461-6	SA40SO30	5/3/99 11:15	1311/7740	TCLP Selenium	0.05	U		mg/L	0.05	0.015
OR6461-6	SA40SO30	5/3/99 11:15	1311/7760	TCLP Silver	0.2	U		mg/L	0.2	0.1

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6461
		Date Submitted:	3-May-99
		Date Reported:	6-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-7	SA40SO31	5/3/99 10:50	1311/7060	TCLP Arsenic	0.05	U		mg/L	0.05	0.005
SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-7	SA40SO31	5/3/99 10:50	1311/7080	TCLP Barium	2	U		mg/L	2	2
SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-7	SA40SO31	5/3/99 10:50	1311/7130	TCLP Cadmium	0.1	U		mg/L	0.1	0.015
SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-7	SA40SO31	5/3/99 10:50	1311/7190	TCLP Chromium	0.5	U		mg/L	0.5	0.1
SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-7	SA40SO31	5/3/99 10:50	1311/7420	TCLP Lead	0.5			mg/L	0.5	0.1
SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-7	SA40SO31	5/3/99 10:50	1311/7470	TCLP Mercury	0.005	U		mg/L	0.005	0.001
SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-7	SA40SO31	5/3/99 10:50	1311/7740	TCLP Selenium	0.05	U		mg/L	0.05	0.015
SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-7	SA40SO31	5/3/99 10:50	1311/7760	TCLP Silver	0.2	U		mg/L	0.2	0.1

U = Compound was analyzed for but not detected to the level shown.

Client: Environmental Detachment
Charleston

Address: 1899 N. Hobson Ave
Charleston, SC 29405-2106

Report #: OR6461
Date Submitted: 3-May-99
Date Reported: 6-May-99
Project #: SA-40
Project Name: NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-12	SA40SO36	5/3/99 12:33	8021	Methyl tert-butyl ether	2	U	1	µg/Kg	2	2
OR6461-12	SA40SO36	5/3/99 12:33	8021	Benzene	1	U	1	µg/Kg	1	0.8
OR6461-12	SA40SO36	5/3/99 12:33	8021	Toluene	5	U	1	µg/Kg	1	0.9
OR6461-12	SA40SO36	5/3/99 12:33	8021	Chlorobenzene	1	U	1	µg/Kg	1	0.9
OR6461-12	SA40SO36	5/3/99 12:33	8021	Ethylbenzene	1	U	1	µg/Kg	1	0.9
OR6461-12	SA40SO36	5/3/99 12:33	8021	m-Xylene & p-Xylene	2	U	1	µg/Kg	2	2
OR6461-12	SA40SO36	5/3/99 12:33	8021	o-Xylene	1	U	1	µg/Kg	1	1
OR6461-12	SA40SO36	5/3/99 12:33	8021	1,3-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6461-12	SA40SO36	5/3/99 12:33	8021	1,4-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6461-12	SA40SO36	5/3/99 12:33	8021	1,2-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6461-12	SA40SO36	5/3/99 12:33	8021	Bromofluorobenzene	40		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-12	SA40SO36	5/3/99 12:33	8021	Dichlorodifluoromethane	1	UJ4	1	µg/Kg	1	0.7
OR6461-12	SA40SO36	5/3/99 12:33	8021	Chloromethane	1	UJ4	1	µg/Kg	1	1
OR6461-12	SA40SO36	5/3/99 12:33	8021	Vinyl Chloride	1	UJ4	1	µg/Kg	1	1
OR6461-12	SA40SO36	5/3/99 12:33	8021	Bromomethane	1	UJ4	1	µg/Kg	1	1
OR6461-12	SA40SO36	5/3/99 12:33	8021	Chloroethane	1	UJ4	1	µg/Kg	1	0.9
OR6461-12	SA40SO36	5/3/99 12:33	8021	Trichlorofluoromethane	1	UJ4	1	µg/Kg	1	0.9
OR6461-12	SA40SO36	5/3/99 12:33	8021	1,1-Dichloroethene	1	UJ4	1	µg/Kg	1	1
OR6461-12	SA40SO36	5/3/99 12:33	8021	Methylene Chloride	10	VJ4	1	µg/Kg	3	1
OR6461-12	SA40SO36	5/3/99 12:33	8021	t-1,2-Dichloroethene	1	UJ4	1	µg/Kg	1	0.7
OR6461-12	SA40SO36	5/3/99 12:33	8021	1,1-Dichloroethane	1	UJ4	1	µg/Kg	1	0.9
OR6461-12	SA40SO36	5/3/99 12:33	8021	Chloroform	1	UJ4	1	µg/Kg	1	0.9
OR6461-12	SA40SO36	5/3/99 12:33	8021	c-1,2-Dichloroethene	1	UJ4	1	µg/Kg	1	0.9
OR6461-12	SA40SO36	5/3/99 12:33	8021	1,1,1-Trichloroethane	1	UJ4	1	µg/Kg	1	0.8
OR6461-12	SA40SO36	5/3/99 12:33	8021	Carbon Tetrachloride	1	UJ4	1	µg/Kg	1	0.8
OR6461-12	SA40SO36	5/3/99 12:33	8021	1,2-Dichloroethane	1	UJ4	1	µg/Kg	1	1
OR6461-12	SA40SO36	5/3/99 12:33	8021	Trichloroethene	1	UJ4	1	µg/Kg	1	1
OR6461-12	SA40SO36	5/3/99 12:33	8021	1,2-Dichloropropane	1	UJ4	1	µg/Kg	1	1
OR6461-12	SA40SO36	5/3/99 12:33	8021	Bromodichloromethane	1	UJ4	1	µg/Kg	1	1
OR6461-12	SA40SO36	5/3/99 12:33	8021	c-1,3-Dichloropropene	1	UJ4	1	µg/Kg	1	1
OR6461-12	SA40SO36	5/3/99 12:33	8021	t-1,3-Dichloropropene	1	UJ4	1	µg/Kg	1	0.9
OR6461-12	SA40SO36	5/3/99 12:33	8021	1,1,2-Trichloroethane	1	UJ4	1	µg/Kg	1	1
OR6461-12	SA40SO36	5/3/99 12:33	8021	Tetrachloroethene	1	UJ4	1	µg/Kg	1	1
OR6461-12	SA40SO36	5/3/99 12:33	8021	Dibromochloromethane	1	UJ4	1	µg/Kg	1	1
OR6461-12	SA40SO36	5/3/99 12:33	8021	Chlorobenzene	1	UJ4	1	µg/Kg	1	0.9
OR6461-12	SA40SO36	5/3/99 12:33	8021	Bromoform	1	UJ4	1	µg/Kg	1	1
OR6461-12	SA40SO36	5/3/99 12:33	8021	1,1,2,2-Tetrachloroethane	2	UJ4	1	µg/Kg	2	2
OR6461-12	SA40SO36	5/3/99 12:33	8021	1,3-Dichlorobenzene	1	UJ4	1	µg/Kg	1	0.7
OR6461-12	SA40SO36	5/3/99 12:33	8021	1,4-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6461-12	SA40SO36	5/3/99 12:33	8021	1,2-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6461-12	SA40SO36	5/3/99 12:33	8021	Bromofluorobenzene	73	J4	1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-12	SA40SO36	5/3/99 12:33	SM2540G	Percent Solids	96			%		

NOTE: Analyte values are reported on a dry weight basis.

V = Analyte detected in laboratory method blank.
J4 = Matrix interferences confirmed by duplicate analysis (see narrative).
U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6461
		Date Submitted:	3-May-99
		Date Reported:	6-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-13	SA40SO37	5/3/99 12:35	8021	Methyl tert-butyl ether	2	UJ4	1	µg/Kg	2	2
OR6461-13	SA40SO37	5/3/99 12:35	8021	Benzene	1	UJ4	1	µg/Kg	1	0.8
OR6461-13	SA40SO37	5/3/99 12:35	8021	Toluene	5	UJ4	1	µg/Kg	1	0.9
OR6461-13	SA40SO37	5/3/99 12:35	8021	Chlorobenzene	1	UJ4	1	µg/Kg	1	0.9
OR6461-13	SA40SO37	5/3/99 12:35	8021	Ethylbenzene	1	UJ4	1	µg/Kg	1	0.9
OR6461-13	SA40SO37	5/3/99 12:35	8021	m-Xylene & p-Xylene	2	UJ4	1	µg/Kg	2	2
OR6461-13	SA40SO37	5/3/99 12:35	8021	o-Xylene	1	UJ4	1	µg/Kg	1	1
OR6461-13	SA40SO37	5/3/99 12:35	8021	1,3-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6461-13	SA40SO37	5/3/99 12:35	8021	1,4-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6461-13	SA40SO37	5/3/99 12:35	8021	1,2-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6461-13	SA40SO37	5/3/99 12:35	8021	Bromofluorobenzene	36	J4	1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-13	SA40SO37	5/3/99 12:35	8021	Dichlorodifluoromethane	1	UJ4	1	µg/Kg	1	0.7
OR6461-13	SA40SO37	5/3/99 12:35	8021	Chloromethane	1	UJ4	1	µg/Kg	1	1
OR6461-13	SA40SO37	5/3/99 12:35	8021	Vinyl Chloride	1	UJ4	1	µg/Kg	1	1
OR6461-13	SA40SO37	5/3/99 12:35	8021	Bromomethane	1	UJ4	1	µg/Kg	1	1
OR6461-13	SA40SO37	5/3/99 12:35	8021	Chloroethane	1	UJ4	1	µg/Kg	1	0.9
OR6461-13	SA40SO37	5/3/99 12:35	8021	Trichlorofluoromethane	1	UJ4	1	µg/Kg	1	0.9
OR6461-13	SA40SO37	5/3/99 12:35	8021	1,1-Dichloroethene	1	UJ4	1	µg/Kg	1	1
OR6461-13	SA40SO37	5/3/99 12:35	8021	Methylene Chloride	19	VJ4	1	µg/Kg	3	1
OR6461-13	SA40SO37	5/3/99 12:35	8021	t-1,2-Dichloroethene	1	UJ4	1	µg/Kg	1	0.7
OR6461-13	SA40SO37	5/3/99 12:35	8021	1,1-Dichloroethane	1	UJ4	1	µg/Kg	1	0.9
OR6461-13	SA40SO37	5/3/99 12:35	8021	Chloroform	1	UJ4	1	µg/Kg	1	0.9
OR6461-13	SA40SO37	5/3/99 12:35	8021	c-1,2-Dichloroethene	1	UJ4	1	µg/Kg	1	0.9
OR6461-13	SA40SO37	5/3/99 12:35	8021	1,1,1-Trichloroethane	1	UJ4	1	µg/Kg	1	0.8
OR6461-13	SA40SO37	5/3/99 12:35	8021	Carbon Tetrachloride	1	UJ4	1	µg/Kg	1	0.8
OR6461-13	SA40SO37	5/3/99 12:35	8021	1,2-Dichloroethane	1	UJ4	1	µg/Kg	1	1
OR6461-13	SA40SO37	5/3/99 12:35	8021	Trichloroethene	1	UJ4	1	µg/Kg	1	1
OR6461-13	SA40SO37	5/3/99 12:35	8021	1,2-Dichloropropane	1	UJ4	1	µg/Kg	1	1
OR6461-13	SA40SO37	5/3/99 12:35	8021	Bromodichloromethane	1	UJ4	1	µg/Kg	1	1
OR6461-13	SA40SO37	5/3/99 12:35	8021	c-1,3-Dichloropropene	1	UJ4	1	µg/Kg	1	1
OR6461-13	SA40SO37	5/3/99 12:35	8021	t-1,3-Dichloropropene	1	UJ4	1	µg/Kg	1	0.9
OR6461-13	SA40SO37	5/3/99 12:35	8021	1,1,2-Trichloroethane	1	UJ4	1	µg/Kg	1	1
OR6461-13	SA40SO37	5/3/99 12:35	8021	Tetrachloroethene	1	UJ4	1	µg/Kg	1	1
OR6461-13	SA40SO37	5/3/99 12:35	8021	Dibromochloromethane	1	UJ4	1	µg/Kg	1	1
OR6461-13	SA40SO37	5/3/99 12:35	8021	Chlorobenzene	1	UJ4	1	µg/Kg	1	0.9
OR6461-13	SA40SO37	5/3/99 12:35	8021	Bromoform	1	UJ4	1	µg/Kg	1	1
OR6461-13	SA40SO37	5/3/99 12:35	8021	1,1,2,2-Tetrachloroethane	2	UJ4	1	µg/Kg	2	2
OR6461-13	SA40SO37	5/3/99 12:35	8021	1,3-Dichlorobenzene	1	UJ4	1	µg/Kg	1	0.7
OR6461-13	SA40SO37	5/3/99 12:35	8021	1,4-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6461-13	SA40SO37	5/3/99 12:35	8021	1,2-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6461-13	SA40SO37	5/3/99 12:35	8021	Bromofluorobenzene	60	J4	1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-13	SA40SO37	5/3/99 12:35	SM2540G	Percent Solids	99			%		

NOTE: Analyte values are reported on a dry weight basis.

V = Analyte detected in laboratory method blank.
J4 = Matrix interferences confirmed by duplicate analysis (see narrative).
U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6461
		Date Submitted:	3-May-99
		Date Reported:	6-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-14	SA40SO38	5/3/99 12:20	8021	Methyl tert-butyl ether	2	IJ4	1	µg/Kg	2	2
OR6461-14	SA40SO38	5/3/99 12:20	8021	Benzene	1	UJ4	1	µg/Kg	1	0.9
OR6461-14	SA40SO38	5/3/99 12:20	8021	Toluene	5	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	Chlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	Ethylbenzene	1	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	m-Xylene & p-Xylene	2	UJ4	1	µg/Kg	2	2
OR6461-14	SA40SO38	5/3/99 12:20	8021	o-Xylene	1	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	1,3-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	1,4-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	1,2-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	Bromofluorobenzene	28	J4	1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER				UNITS	RDL	MDL
OR6461-14	SA40SO38	5/3/99 12:20	8021	Dichlorodifluoromethane	1	UJ4	1	µg/Kg	1	0.8
OR6461-14	SA40SO38	5/3/99 12:20	8021	Chloromethane	1	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	Vinyl Chloride	1	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	Bromomethane	1	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	Chloroethane	1	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	Trichlorofluoromethane	1	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	1,1-Dichloroethene	1	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	Methylene Chloride	47	VJ4	1	µg/Kg	3	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	t-1,2-Dichloroethene	1	UJ4	1	µg/Kg	1	0.8
OR6461-14	SA40SO38	5/3/99 12:20	8021	1,1-Dichloroethane	1	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	Chloroform	1	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	c-1,2-Dichloroethene	1	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	1,1,1-Trichloroethane	1	UJ4	1	µg/Kg	1	0.9
OR6461-14	SA40SO38	5/3/99 12:20	8021	Carbon Tetrachloride	1	UJ4	1	µg/Kg	1	0.9
OR6461-14	SA40SO38	5/3/99 12:20	8021	1,2-Dichloroethane	1	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	Trichloroethene	1	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	1,2-Dichloropropane	1	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	Bromodichloromethane	1	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	c-1,3-Dichloropropene	1	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	t-1,3-Dichloropropene	1	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	1,1,2-Trichloroethane	1	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	Tetrachloroethene	1	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	Dibromochloromethane	1	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	Chlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	Bromoform	1	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	1,1,2,2-Tetrachloroethane	2	UJ4	1	µg/Kg	2	2
OR6461-14	SA40SO38	5/3/99 12:20	8021	1,3-Dichlorobenzene	1	UJ4	1	µg/Kg	1	0.8
OR6461-14	SA40SO38	5/3/99 12:20	8021	1,4-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	1,2-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6461-14	SA40SO38	5/3/99 12:20	8021	Bromofluorobenzene	34	J4	1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6461-14	SA40SO38	5/3/99 12:20	SM2540G	Percent Solids	92			%		

NOTE: Analyte values are reported on a dry weight basis.

V = Analyte detected in laboratory method blank.
J4 = Matrix interferences confirmed by duplicate analysis (see narrative).
U = Compound was analyzed for but not detected to the level shown.

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

CRF #_____

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
NTC Orlando	SA-40	

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE	FAX
FL	Rusty Cope	496-2173	

CLIENT NAME: Environmental Detachment Chas. — CLIENT PROJECT MANAGER: A.J. Moyer

CLIENT ADDRESS (CITY, STATE, ZIP): 1899 N Hobson Ave N. Chas. S.C. 29405

PAGE ____ OF ____

☐ STANDARD REPORT DELIVERY

☐ EXPEDITED REPORT DELIVERY (surcharge)

Date Due: _____

SAMPLE						MATRIX TYPE									REQUIRED ANALYSIS												
STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	TCLP metals	VOC 8021	Arsenic	PRESERVATIVE									REMARKS
															NUMBER OF CONTAINERS SUBMITTED											
1	5/3/99	1240		X	SA40S025					X					1												Profiles for Land Disposal
2	5/3/99	1220		X	SA40S026					X					1												
3	5/3/99	1200		X	SA40S027					X					1												
4	5/3/99	1140		X	SA40S028					X					1												
5	5/3/99	1130		X	SA40S029					X					1												
6	5/3/99	1115		X	SA40S030					X					1												
7	5/3/99	1050		X	SA40S031					X					1												
8 ✓	5/2/99	1110	X		SA40S032					X							1										
9 ✓	5/2/99	1115	X		SA40S033					X							1										
10 ✓	5/2/99	1120	X		SA40S034					X							1										
11 ✓	5/2/99	1125	X		SA40S035					X							1										
12	5/3/99	1233	X		SA40S036											1											
13	5/3/99	1235	X		SA40S037											1											
14	5/3/99	1220	X		SA40S038											1											

SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
			K W Cope	5/3/99	1415	James W. Gregory	5/3/99	1415
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) ☐ Jacksonville ☐ Orlando	DATE	TIME	CUSTODY INTACT ☐ YES ☐ NO	ENCO LOG NO	REMARKS
K.A Strong	5-3-99	3:30		ORL-01	

Environmental Conservation Laboratories
10207 General Drive
Orlando, Florida 32824-8529
07 / 826-5314
Fax 407 / 850-6945
www.encolabs.com

ENCO Laboratories

DHRS Certification No. E83182

CLIENT : Environmental Detachment
ADDRESS: Charleston
1899 N. Hobson Ave
Charleston, SC 29405-2106

REPORT # : OR6462
DATE SUBMITTED: May 3, 1999
DATE REPORTED : May 7, 1999

ATTENTION: Rusty Cope

SAMPLE IDENTIFICATION

Samples submitted and
identified by client as:

PROJECT #: SA-40

NTC Orlando

05/03/99

#1 - SA40SO39 @ 12:15
#2 - SA40SO40 @ 12:05
#3 - SA40SO41 @ 12:08
#4 - SA40SO42 @ 11:35
#5 - SA40SO43 @ 11:40
#6 - SA40SO44 @ 11:15
#7 - SA40SO45 @ 11:20
#8 - SA40SO46 @ 11:05
#9 - SA40SO47 @ 11:00
#10 - SA40SO48 @ 10:44
#11 - SA40SO49 @ 10:40

JECT MANAGER Marcia C. Terlep

Environmental Conservation Laboratories
10207 General Drive
Orlando, Florida 32824-8529
07 / 826-5314
Fax 407 / 850-6945
www.encolabs.com

ENCO Laboratories

DHRS Certification No. E83182

Client:	Environmental Detachment Charleston	Report #:	OR6462
		Date Submitted:	3-May-99
		Date Reported:	7-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-1	SA40SO39	5/3/99 12:15	8021	Methyl tert-butyl ether	2	U	1	µg/Kg	2	2
OR6462-1	SA40SO39	5/3/99 12:15	8021	Benzene	1	U	1	µg/Kg	1	0.8
OR6462-1	SA40SO39	5/3/99 12:15	8021	Toluene	5	U	1	µg/Kg	1	0.9
OR6462-1	SA40SO39	5/3/99 12:15	8021	Chlorobenzene	1	U	1	µg/Kg	1	0.9
OR6462-1	SA40SO39	5/3/99 12:15	8021	Ethylbenzene	1	U	1	µg/Kg	1	0.9
OR6462-1	SA40SO39	5/3/99 12:15	8021	m-Xylene & p-Xylene	2	U	1	µg/Kg	2	2
OR6462-1	SA40SO39	5/3/99 12:15	8021	o-Xylene	1	U	1	µg/Kg	1	1
OR6462-1	SA40SO39	5/3/99 12:15	8021	1,3-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-1	SA40SO39	5/3/99 12:15	8021	1,4-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-1	SA40SO39	5/3/99 12:15	8021	1,2-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-1	SA40SO39	5/3/99 12:15	8021	Bromofluorobenzene	97		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-1	SA40SO39	5/3/99 12:15	8021	Dichlorodifluoromethane	1	U	1	µg/Kg	1	0.7
OR6462-1	SA40SO39	5/3/99 12:15	8021	Chloromethane	1	U	1	µg/Kg	1	1
OR6462-1	SA40SO39	5/3/99 12:15	8021	Vinyl Chloride	1	U	1	µg/Kg	1	1
OR6462-1	SA40SO39	5/3/99 12:15	8021	Bromomethane	1	U	1	µg/Kg	1	1
OR6462-1	SA40SO39	5/3/99 12:15	8021	Chloroethane	1	U	1	µg/Kg	1	0.9
OR6462-1	SA40SO39	5/3/99 12:15	8021	Trichlorofluoromethane	1	U	1	µg/Kg	1	0.9
OR6462-1	SA40SO39	5/3/99 12:15	8021	1,1-Dichloroethene	1	U	1	µg/Kg	1	1
OR6462-1	SA40SO39	5/3/99 12:15	8021	Methylene Chloride	3	V	1	µg/Kg	3	1
OR6462-1	SA40SO39	5/3/99 12:15	8021	t-1,2-Dichloroethene	1	U	1	µg/Kg	1	0.7
OR6462-1	SA40SO39	5/3/99 12:15	8021	1,1-Dichloroethane	1	U	1	µg/Kg	1	0.9
OR6462-1	SA40SO39	5/3/99 12:15	8021	Chloroform	1	U	1	µg/Kg	1	0.9
OR6462-1	SA40SO39	5/3/99 12:15	8021	c-1,2-Dichloroethene	1	U	1	µg/Kg	1	0.9
OR6462-1	SA40SO39	5/3/99 12:15	8021	1,1,1-Trichloroethane	1	U	1	µg/Kg	1	0.8
OR6462-1	SA40SO39	5/3/99 12:15	8021	Carbon Tetrachloride	1	U	1	µg/Kg	1	0.8
OR6462-1	SA40SO39	5/3/99 12:15	8021	1,2-Dichloroethane	1	U	1	µg/Kg	1	1
OR6462-1	SA40SO39	5/3/99 12:15	8021	Trichloroethene	1	U	1	µg/Kg	1	1
OR6462-1	SA40SO39	5/3/99 12:15	8021	1,2-Dichloropropane	1	U	1	µg/Kg	1	1
OR6462-1	SA40SO39	5/3/99 12:15	8021	Bromodichloromethane	1	U	1	µg/Kg	1	1
OR6462-1	SA40SO39	5/3/99 12:15	8021	c-1,3-Dichloropropene	1	U	1	µg/Kg	1	1
OR6462-1	SA40SO39	5/3/99 12:15	8021	t-1,3-Dichloropropene	1	U	1	µg/Kg	1	0.9
OR6462-1	SA40SO39	5/3/99 12:15	8021	1,1,2-Trichloroethane	1	U	1	µg/Kg	1	1
OR6462-1	SA40SO39	5/3/99 12:15	8021	Tetrachloroethene	1	U	1	µg/Kg	1	1
OR6462-1	SA40SO39	5/3/99 12:15	8021	Dibromochloromethane	1	U	1	µg/Kg	1	1
OR6462-1	SA40SO39	5/3/99 12:15	8021	Chlorobenzene	1	U	1	µg/Kg	1	0.9
OR6462-1	SA40SO39	5/3/99 12:15	8021	Bromoform	1	U	1	µg/Kg	1	1
OR6462-1	SA40SO39	5/3/99 12:15	8021	1,1,2,2-Tetrachloroethane	2	U	1	µg/Kg	2	2
OR6462-1	SA40SO39	5/3/99 12:15	8021	1,3-Dichlorobenzene	1	U	1	µg/Kg	1	0.7
OR6462-1	SA40SO39	5/3/99 12:15	8021	1,4-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-1	SA40SO39	5/3/99 12:15	8021	1,2-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-1	SA40SO39	5/3/99 12:15	8021	Bromofluorobenzene	97		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-1	SA40SO39	5/3/99 12:15	SM2540G	Percent Solids	99			%		

V = Analyte detected in laboratory method blank.
U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

Client:	Environmental Detachment Charleston	Report #:	OR6462
		Date Submitted:	3-May-99
		Date Reported:	7-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-2	SA40SO40	5/3/99 12:05	8021	Methyl tert-butyl ether	2	U	1	µg/Kg	2	2
OR6462-2	SA40SO40	5/3/99 12:05	8021	Benzene	1	U	1	µg/Kg	1	0.8
OR6462-2	SA40SO40	5/3/99 12:05	8021	Toluene	5	U	1	µg/Kg	1	0.9
OR6462-2	SA40SO40	5/3/99 12:05	8021	Chlorobenzene	1	U	1	µg/Kg	1	0.9
OR6462-2	SA40SO40	5/3/99 12:05	8021	Ethylbenzene	1	U	1	µg/Kg	1	0.9
OR6462-2	SA40SO40	5/3/99 12:05	8021	m-Xylene & p-Xylene	2	U	1	µg/Kg	2	2
OR6462-2	SA40SO40	5/3/99 12:05	8021	o-Xylene	1	U	1	µg/Kg	1	1
OR6462-2	SA40SO40	5/3/99 12:05	8021	1,3-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-2	SA40SO40	5/3/99 12:05	8021	1,4-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-2	SA40SO40	5/3/99 12:05	8021	1,2-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-2	SA40SO40	5/3/99 12:05	8021	Bromofluorobenzene	87		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-2	SA40SO40	5/3/99 12:05	8021	Dichlorodifluoromethane	1	U	1	µg/Kg	1	0.7
OR6462-2	SA40SO40	5/3/99 12:05	8021	Chloromethane	1	U	1	µg/Kg	1	1
OR6462-2	SA40SO40	5/3/99 12:05	8021	Vinyl Chloride	1	U	1	µg/Kg	1	1
OR6462-2	SA40SO40	5/3/99 12:05	8021	Bromomethane	1	U	1	µg/Kg	1	1
OR6462-2	SA40SO40	5/3/99 12:05	8021	Chloroethane	1	U	1	µg/Kg	1	0.9
OR6462-2	SA40SO40	5/3/99 12:05	8021	Trichlorofluoromethane	1	U	1	µg/Kg	1	0.9
OR6462-2	SA40SO40	5/3/99 12:05	8021	1,1-Dichloroethene	1	U	1	µg/Kg	1	1
OR6462-2	SA40SO40	5/3/99 12:05	8021	Methylene Chloride	4	IV	1	µg/Kg	3	1
OR6462-2	SA40SO40	5/3/99 12:05	8021	t-1,2-Dichloroethene	1	U	1	µg/Kg	1	0.7
OR6462-2	SA40SO40	5/3/99 12:05	8021	1,1-Dichloroethane	1	U	1	µg/Kg	1	0.9
OR6462-2	SA40SO40	5/3/99 12:05	8021	Chloroform	1	U	1	µg/Kg	1	0.9
OR6462-2	SA40SO40	5/3/99 12:05	8021	c-1,2-Dichloroethene	1	U	1	µg/Kg	1	0.9
OR6462-2	SA40SO40	5/3/99 12:05	8021	1,1,1-Trichloroethane	1	U	1	µg/Kg	1	0.8
OR6462-2	SA40SO40	5/3/99 12:05	8021	Carbon Tetrachloride	1	U	1	µg/Kg	1	0.8
OR6462-2	SA40SO40	5/3/99 12:05	8021	1,2-Dichloroethane	1	U	1	µg/Kg	1	1
OR6462-2	SA40SO40	5/3/99 12:05	8021	Trichloroethene	1	U	1	µg/Kg	1	1
OR6462-2	SA40SO40	5/3/99 12:05	8021	1,2-Dichloropropane	1	U	1	µg/Kg	1	1
OR6462-2	SA40SO40	5/3/99 12:05	8021	Bromodichloromethane	1	U	1	µg/Kg	1	1
OR6462-2	SA40SO40	5/3/99 12:05	8021	c-1,3-Dichloropropene	1	U	1	µg/Kg	1	1
OR6462-2	SA40SO40	5/3/99 12:05	8021	t-1,3-Dichloropropene	1	U	1	µg/Kg	1	0.9
OR6462-2	SA40SO40	5/3/99 12:05	8021	1,1,2-Trichloroethane	1	U	1	µg/Kg	1	1
OR6462-2	SA40SO40	5/3/99 12:05	8021	Tetrachloroethene	1	U	1	µg/Kg	1	1
OR6462-2	SA40SO40	5/3/99 12:05	8021	Dibromochloromethane	1	U	1	µg/Kg	1	1
OR6462-2	SA40SO40	5/3/99 12:05	8021	Chlorobenzene	1	U	1	µg/Kg	1	0.9
OR6462-2	SA40SO40	5/3/99 12:05	8021	Bromoform	1	U	1	µg/Kg	1	1
OR6462-2	SA40SO40	5/3/99 12:05	8021	1,1,2,2-Tetrachloroethane	2	U	1	µg/Kg	2	2
OR6462-2	SA40SO40	5/3/99 12:05	8021	1,3-Dichlorobenzene	1	U	1	µg/Kg	1	0.7
OR6462-2	SA40SO40	5/3/99 12:05	8021	1,4-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-2	SA40SO40	5/3/99 12:05	8021	1,2-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-2	SA40SO40	5/3/99 12:05	8021	Bromofluorobenzene	124		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-2	SA40SO40	5/3/99 12:05	SM2540G	Percent Solids	100			%		

V = Analyte detected in laboratory method blank.
U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

Client:	Environmental Detachment Charleston	Report #:	OR6462
		Date Submitted:	3-May-99
		Date Reported:	7-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-3	SA40SO41	5/3/99 12:08	8021	Methyl tert-butyl ether	2	U	1	µg/Kg	2	2
OR6462-3	SA40SO41	5/3/99 12:08	8021	Benzene	1	U	1	µg/Kg	1	0.8
OR6462-3	SA40SO41	5/3/99 12:08	8021	Toluene	5	U	1	µg/Kg	1	0.9
OR6462-3	SA40SO41	5/3/99 12:08	8021	Chlorobenzene	1	U	1	µg/Kg	1	0.9
OR6462-3	SA40SO41	5/3/99 12:08	8021	Ethylbenzene	1	U	1	µg/Kg	1	0.9
OR6462-3	SA40SO41	5/3/99 12:08	8021	m-Xylene & p-Xylene	2	U	1	µg/Kg	2	2
OR6462-3	SA40SO41	5/3/99 12:08	8021	o-Xylene	1	U	1	µg/Kg	1	1
OR6462-3	SA40SO41	5/3/99 12:08	8021	1,3-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-3	SA40SO41	5/3/99 12:08	8021	1,4-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-3	SA40SO41	5/3/99 12:08	8021	1,2-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-3	SA40SO41	5/3/99 12:08	8021	Bromofluorobenzene	117		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-3	SA40SO41	5/3/99 12:08	8021	Dichlorodifluoromethane	1	U	1	µg/Kg	1	0.7
OR6462-3	SA40SO41	5/3/99 12:08	8021	Chloromethane	1	U	1	µg/Kg	1	1
OR6462-3	SA40SO41	5/3/99 12:08	8021	Vinyl Chloride	1	U	1	µg/Kg	1	1
OR6462-3	SA40SO41	5/3/99 12:08	8021	Bromomethane	1	U	1	µg/Kg	1	1
OR6462-3	SA40SO41	5/3/99 12:08	8021	Chloroethane	1	U	1	µg/Kg	1	0.9
OR6462-3	SA40SO41	5/3/99 12:08	8021	Trichlorofluoromethane	1	U	1	µg/Kg	1	0.9
OR6462-3	SA40SO41	5/3/99 12:08	8021	1,1-Dichloroethene	1	U	1	µg/Kg	1	1
OR6462-3	SA40SO41	5/3/99 12:08	8021	Methylene Chloride	4	IV	1	µg/Kg	3	1
OR6462-3	SA40SO41	5/3/99 12:08	8021	t-1,2-Dichloroethene	1	U	1	µg/Kg	1	0.7
OR6462-3	SA40SO41	5/3/99 12:08	8021	1,1-Dichloroethane	1	U	1	µg/Kg	1	0.9
OR6462-3	SA40SO41	5/3/99 12:08	8021	Chloroform	1	U	1	µg/Kg	1	0.9
OR6462-3	SA40SO41	5/3/99 12:08	8021	c-1,2-Dichloroethene	1	U	1	µg/Kg	1	0.9
OR6462-3	SA40SO41	5/3/99 12:08	8021	1,1,1-Trichloroethane	1	U	1	µg/Kg	1	0.8
OR6462-3	SA40SO41	5/3/99 12:08	8021	Carbon Tetrachloride	1	U	1	µg/Kg	1	0.8
OR6462-3	SA40SO41	5/3/99 12:08	8021	1,2-Dichloroethane	1	U	1	µg/Kg	1	1
OR6462-3	SA40SO41	5/3/99 12:08	8021	Trichloroethene	1	U	1	µg/Kg	1	1
OR6462-3	SA40SO41	5/3/99 12:08	8021	1,2-Dichloropropane	1	U	1	µg/Kg	1	1
OR6462-3	SA40SO41	5/3/99 12:08	8021	Bromodichloromethane	1	U	1	µg/Kg	1	1
OR6462-3	SA40SO41	5/3/99 12:08	8021	c-1,3-Dichloropropene	1	U	1	µg/Kg	1	1
OR6462-3	SA40SO41	5/3/99 12:08	8021	t-1,3-Dichloropropene	1	U	1	µg/Kg	1	0.9
OR6462-3	SA40SO41	5/3/99 12:08	8021	1,1,2-Trichloroethane	1	U	1	µg/Kg	1	1
OR6462-3	SA40SO41	5/3/99 12:08	8021	Tetrachloroethene	1	U	1	µg/Kg	1	1
OR6462-3	SA40SO41	5/3/99 12:08	8021	Dibromochloromethane	1	U	1	µg/Kg	1	1
OR6462-3	SA40SO41	5/3/99 12:08	8021	Chlorobenzene	1	U	1	µg/Kg	1	0.9
OR6462-3	SA40SO41	5/3/99 12:08	8021	Bromoform	1	U	1	µg/Kg	1	1
OR6462-3	SA40SO41	5/3/99 12:08	8021	1,1,2,2-Tetrachloroethane	2	U	1	µg/Kg	2	2
OR6462-3	SA40SO41	5/3/99 12:08	8021	1,3-Dichlorobenzene	1	U	1	µg/Kg	1	0.7
OR6462-3	SA40SO41	5/3/99 12:08	8021	1,4-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-3	SA40SO41	5/3/99 12:08	8021	1,2-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-3	SA40SO41	5/3/99 12:08	8021	Bromofluorobenzene	116		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-3	SA40SO41	5/3/99 12:08	SM2540G	Percent Solids	99			%		

V = Analyte detected in laboratory method blank.
U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

Client:	Environmental Detachment Charleston	Report #:	OR6462
		Date Submitted:	3-May-99
		Date Reported:	7-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-4	SA40SO42	5/3/99 11:35	8021	Methyl tert-butyl ether	2	U	1	µg/Kg	2	2
OR6462-4	SA40SO42	5/3/99 11:35	8021	Benzene	1	U	1	µg/Kg	1	0.8
OR6462-4	SA40SO42	5/3/99 11:35	8021	Toluene	5	U	1	µg/Kg	1	0.9
OR6462-4	SA40SO42	5/3/99 11:35	8021	Chlorobenzene	1	U	1	µg/Kg	1	0.9
OR6462-4	SA40SO42	5/3/99 11:35	8021	Ethylbenzene	1	U	1	µg/Kg	1	0.9
OR6462-4	SA40SO42	5/3/99 11:35	8021	m-Xylene & p-Xylene	2	U	1	µg/Kg	2	2
OR6462-4	SA40SO42	5/3/99 11:35	8021	o-Xylene	1	U	1	µg/Kg	1	1
OR6462-4	SA40SO42	5/3/99 11:35	8021	1,3-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-4	SA40SO42	5/3/99 11:35	8021	1,4-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-4	SA40SO42	5/3/99 11:35	8021	1,2-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-4	SA40SO42	5/3/99 11:35	8021	Bromofluorobenzene	48		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-4	SA40SO42	5/3/99 11:35	8021	Dichlorodifluoromethane	1	UJ4	1	µg/Kg	1	0.7
OR6462-4	SA40SO42	5/3/99 11:35	8021	Chloromethane	1	UJ4	1	µg/Kg	1	1
OR6462-4	SA40SO42	5/3/99 11:35	8021	Vinyl Chloride	1	UJ4	1	µg/Kg	1	1
OR6462-4	SA40SO42	5/3/99 11:35	8021	Bromomethane	1	UJ4	1	µg/Kg	1	1
OR6462-4	SA40SO42	5/3/99 11:35	8021	Chloroethane	1	UJ4	1	µg/Kg	1	0.9
OR6462-4	SA40SO42	5/3/99 11:35	8021	Trichlorofluoromethane	1	UJ4	1	µg/Kg	1	0.9
OR6462-4	SA40SO42	5/3/99 11:35	8021	1,1-Dichloroethene	1	UJ4	1	µg/Kg	1	1
OR6462-4	SA40SO42	5/3/99 11:35	8021	Methylene Chloride	7	VJ4	1	µg/Kg	3	1
OR6462-4	SA40SO42	5/3/99 11:35	8021	t-1,2-Dichloroethene	1	UJ4	1	µg/Kg	1	0.7
OR6462-4	SA40SO42	5/3/99 11:35	8021	1,1-Dichloroethane	1	UJ4	1	µg/Kg	1	0.9
OR6462-4	SA40SO42	5/3/99 11:35	8021	Chloroform	1	UJ4	1	µg/Kg	1	0.9
OR6462-4	SA40SO42	5/3/99 11:35	8021	c-1,2-Dichloroethene	1	UJ4	1	µg/Kg	1	0.9
OR6462-4	SA40SO42	5/3/99 11:35	8021	1,1,1-Trichloroethane	1	UJ4	1	µg/Kg	1	0.8
OR6462-4	SA40SO42	5/3/99 11:35	8021	Carbon Tetrachloride	1	UJ4	1	µg/Kg	1	0.8
OR6462-4	SA40SO42	5/3/99 11:35	8021	1,2-Dichloroethane	1	UJ4	1	µg/Kg	1	1
OR6462-4	SA40SO42	5/3/99 11:35	8021	Trichloroethene	1	UJ4	1	µg/Kg	1	1
OR6462-4	SA40SO42	5/3/99 11:35	8021	1,2-Dichloropropane	1	UJ4	1	µg/Kg	1	1
OR6462-4	SA40SO42	5/3/99 11:35	8021	Bromodichloromethane	1	UJ4	1	µg/Kg	1	1
OR6462-4	SA40SO42	5/3/99 11:35	8021	c-1,3-Dichloropropene	1	UJ4	1	µg/Kg	1	1
OR6462-4	SA40SO42	5/3/99 11:35	8021	t-1,3-Dichloropropene	1	UJ4	1	µg/Kg	1	0.9
OR6462-4	SA40SO42	5/3/99 11:35	8021	1,1,2-Trichloroethane	1	UJ4	1	µg/Kg	1	1
OR6462-4	SA40SO42	5/3/99 11:35	8021	Tetrachloroethene	1	UJ4	1	µg/Kg	1	1
OR6462-4	SA40SO42	5/3/99 11:35	8021	Dibromochloromethane	1	UJ4	1	µg/Kg	1	1
OR6462-4	SA40SO42	5/3/99 11:35	8021	Chlorobenzene	1	UJ4	1	µg/Kg	1	0.9
OR6462-4	SA40SO42	5/3/99 11:35	8021	Bromoform	1	UJ4	1	µg/Kg	1	1
OR6462-4	SA40SO42	5/3/99 11:35	8021	1,1,2,2-Tetrachloroethane	2	UJ4	1	µg/Kg	2	2
OR6462-4	SA40SO42	5/3/99 11:35	8021	1,3-Dichlorobenzene	1	UJ4	1	µg/Kg	1	0.7
OR6462-4	SA40SO42	5/3/99 11:35	8021	1,4-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6462-4	SA40SO42	5/3/99 11:35	8021	1,2-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6462-4	SA40SO42	5/3/99 11:35	8021	Bromofluorobenzene	88	J4	1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-4	SA40SO42	5/3/99 11:35	SM2540G	Percent Solids	98			%		

V = Analyte detected in laboratory method blank.
J4 = Matrix interference confirmed by duplicate analysis (see narrative).
U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6462
		Date Submitted:	3-May-99
		Date Reported:	7-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-5	SA40SO43	5/3/99 11:40	8021	Methyl tert-butyl ether	2	U	1	µg/Kg	2	2
OR6462-5	SA40SO43	5/3/99 11:40	8021	Benzene	1	U	1	µg/Kg	1	0.8
OR6462-5	SA40SO43	5/3/99 11:40	8021	Toluene	5	U	1	µg/Kg	1	0.9
OR6462-5	SA40SO43	5/3/99 11:40	8021	Chlorobenzene	1	U	1	µg/Kg	1	0.9
OR6462-5	SA40SO43	5/3/99 11:40	8021	Ethylbenzene	1	U	1	µg/Kg	1	0.9
OR6462-5	SA40SO43	5/3/99 11:40	8021	m-Xylene & p-Xylene	2	U	1	µg/Kg	2	2
OR6462-5	SA40SO43	5/3/99 11:40	8021	o-Xylene	1	U	1	µg/Kg	1	1
OR6462-5	SA40SO43	5/3/99 11:40	8021	1,3-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-5	SA40SO43	5/3/99 11:40	8021	1,4-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-5	SA40SO43	5/3/99 11:40	8021	1,2-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-5	SA40SO43	5/3/99 11:40	8021	Bromofluorobenzene	81		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-5	SA40SO43	5/3/99 11:40	8021	Dichlorodifluoromethane	1	U	1	µg/Kg	1	0.7
OR6462-5	SA40SO43	5/3/99 11:40	8021	Chloromethane	1	U	1	µg/Kg	1	1
OR6462-5	SA40SO43	5/3/99 11:40	8021	Vinyl Chloride	1	U	1	µg/Kg	1	1
OR6462-5	SA40SO43	5/3/99 11:40	8021	Bromomethane	1	U	1	µg/Kg	1	1
OR6462-5	SA40SO43	5/3/99 11:40	8021	Chloroethane	1	U	1	µg/Kg	1	0.9
OR6462-5	SA40SO43	5/3/99 11:40	8021	Trichlorofluoromethane	1	U	1	µg/Kg	1	0.9
OR6462-5	SA40SO43	5/3/99 11:40	8021	1,1-Dichloroethene	1	U	1	µg/Kg	1	1
OR6462-5	SA40SO43	5/3/99 11:40	8021	Methylene Chloride	4	IV	1	µg/Kg	3	1
OR6462-5	SA40SO43	5/3/99 11:40	8021	t-1,2-Dichloroethene	1	U	1	µg/Kg	1	0.7
OR6462-5	SA40SO43	5/3/99 11:40	8021	1,1-Dichloroethane	1	U	1	µg/Kg	1	0.9
OR6462-5	SA40SO43	5/3/99 11:40	8021	Chloroform	1	U	1	µg/Kg	1	0.9
OR6462-5	SA40SO43	5/3/99 11:40	8021	c-1,2-Dichloroethene	1	U	1	µg/Kg	1	0.9
OR6462-5	SA40SO43	5/3/99 11:40	8021	1,1,1-Trichloroethane	1	U	1	µg/Kg	1	0.8
OR6462-5	SA40SO43	5/3/99 11:40	8021	Carbon Tetrachloride	1	U	1	µg/Kg	1	0.8
OR6462-5	SA40SO43	5/3/99 11:40	8021	1,2-Dichloroethane	1	U	1	µg/Kg	1	1
OR6462-5	SA40SO43	5/3/99 11:40	8021	Trichloroethene	1	U	1	µg/Kg	1	1
OR6462-5	SA40SO43	5/3/99 11:40	8021	1,2-Dichloropropane	1	U	1	µg/Kg	1	1
OR6462-5	SA40SO43	5/3/99 11:40	8021	Bromodichloromethane	1	U	1	µg/Kg	1	1
OR6462-5	SA40SO43	5/3/99 11:40	8021	c-1,3-Dichloropropene	1	U	1	µg/Kg	1	1
OR6462-5	SA40SO43	5/3/99 11:40	8021	t-1,3-Dichloropropene	1	U	1	µg/Kg	1	0.9
OR6462-5	SA40SO43	5/3/99 11:40	8021	1,1,2-Trichloroethane	1	U	1	µg/Kg	1	1
OR6462-5	SA40SO43	5/3/99 11:40	8021	Tetrachloroethene	1	U	1	µg/Kg	1	1
OR6462-5	SA40SO43	5/3/99 11:40	8021	Dibromochloromethane	1	U	1	µg/Kg	1	1
OR6462-5	SA40SO43	5/3/99 11:40	8021	Chlorobenzene	1	U	1	µg/Kg	1	0.9
OR6462-5	SA40SO43	5/3/99 11:40	8021	Bromoform	1	U	1	µg/Kg	1	1
OR6462-5	SA40SO43	5/3/99 11:40	8021	1,1,2,2-Tetrachloroethane	2	U	1	µg/Kg	2	2
OR6462-5	SA40SO43	5/3/99 11:40	8021	1,3-Dichlorobenzene	1	U	1	µg/Kg	1	0.7
OR6462-5	SA40SO43	5/3/99 11:40	8021	1,4-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-5	SA40SO43	5/3/99 11:40	8021	1,2-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-5	SA40SO43	5/3/99 11:40	8021	Bromofluorobenzene	94		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-5	SA40SO43	5/3/99 11:40	SM2540G	Percent Solids	96			%		

V = Analyte detected in laboratory method blank.
U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

Client:	Environmental Detachment Charleston	Report #:	OR6462
		Date Submitted:	3-May-99
		Date Reported:	7-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-6	SA40SO44	5/3/99 11:15	8021	Methyl tert-butyl ether	2	U	1	µg/Kg	2	2
OR6462-6	SA40SO44	5/3/99 11:15	8021	Benzene	1	U	1	µg/Kg	1	0.8
OR6462-6	SA40SO44	5/3/99 11:15	8021	Toluene	5	U	1	µg/Kg	1	0.9
OR6462-6	SA40SO44	5/3/99 11:15	8021	Chlorobenzene	1	U	1	µg/Kg	1	0.9
OR6462-6	SA40SO44	5/3/99 11:15	8021	Ethylbenzene	1	U	1	µg/Kg	1	0.9
OR6462-6	SA40SO44	5/3/99 11:15	8021	m-Xylene & p-Xylene	2	U	1	µg/Kg	2	2
OR6462-6	SA40SO44	5/3/99 11:15	8021	o-Xylene	1	U	1	µg/Kg	1	1
OR6462-6	SA40SO44	5/3/99 11:15	8021	1,3-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-6	SA40SO44	5/3/99 11:15	8021	1,4-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-6	SA40SO44	5/3/99 11:15	8021	1,2-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-6	SA40SO44	5/3/99 11:15	8021	Bromofluorobenzene	90		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-6	SA40SO44	5/3/99 11:15	8021	Dichlorodifluoromethane	1	UJ4	1	µg/Kg	1	0.7
OR6462-6	SA40SO44	5/3/99 11:15	8021	Chloromethane	1	UJ4	1	µg/Kg	1	1
OR6462-6	SA40SO44	5/3/99 11:15	8021	Vinyl Chloride	1	UJ4	1	µg/Kg	1	1
OR6462-6	SA40SO44	5/3/99 11:15	8021	Bromomethane	1	UJ4	1	µg/Kg	1	1
OR6462-6	SA40SO44	5/3/99 11:15	8021	Chloroethane	1	UJ4	1	µg/Kg	1	0.9
OR6462-6	SA40SO44	5/3/99 11:15	8021	Trichlorofluoromethane	1	UJ4	1	µg/Kg	1	0.9
OR6462-6	SA40SO44	5/3/99 11:15	8021	1,1-Dichloroethene	1	UJ4	1	µg/Kg	1	1
OR6462-6	SA40SO44	5/3/99 11:15	8021	Methylene Chloride	4	VJ4	1	µg/Kg	3	1
OR6462-6	SA40SO44	5/3/99 11:15	8021	t-1,2-Dichloroethene	1	UJ4	1	µg/Kg	1	0.7
OR6462-6	SA40SO44	5/3/99 11:15	8021	1,1-Dichloroethane	1	UJ4	1	µg/Kg	1	0.9
OR6462-6	SA40SO44	5/3/99 11:15	8021	Chloroform	1	UJ4	1	µg/Kg	1	0.9
OR6462-6	SA40SO44	5/3/99 11:15	8021	c-1,2-Dichloroethene	1	UJ4	1	µg/Kg	1	0.9
OR6462-6	SA40SO44	5/3/99 11:15	8021	1,1,1-Trichloroethane	1	UJ4	1	µg/Kg	1	0.8
OR6462-6	SA40SO44	5/3/99 11:15	8021	Carbon Tetrachloride	1	UJ4	1	µg/Kg	1	0.8
OR6462-6	SA40SO44	5/3/99 11:15	8021	1,2-Dichloroethane	1	UJ4	1	µg/Kg	1	1
OR6462-6	SA40SO44	5/3/99 11:15	8021	Trichloroethene	1	UJ4	1	µg/Kg	1	1
OR6462-6	SA40SO44	5/3/99 11:15	8021	1,2-Dichloropropane	1	UJ4	1	µg/Kg	1	1
OR6462-6	SA40SO44	5/3/99 11:15	8021	Bromodichloromethane	1	UJ4	1	µg/Kg	1	1
OR6462-6	SA40SO44	5/3/99 11:15	8021	c-1,3-Dichloropropene	1	UJ4	1	µg/Kg	1	1
OR6462-6	SA40SO44	5/3/99 11:15	8021	t-1,3-Dichloropropene	1	UJ4	1	µg/Kg	1	0.9
OR6462-6	SA40SO44	5/3/99 11:15	8021	1,1,2-Trichloroethane	1	UJ4	1	µg/Kg	1	1
OR6462-6	SA40SO44	5/3/99 11:15	8021	Tetrachloroethene	1	UJ4	1	µg/Kg	1	1
OR6462-6	SA40SO44	5/3/99 11:15	8021	Dibromochloromethane	1	UJ4	1	µg/Kg	1	1
OR6462-6	SA40SO44	5/3/99 11:15	8021	Chlorobenzene	1	UJ4	1	µg/Kg	1	0.9
OR6462-6	SA40SO44	5/3/99 11:15	8021	Bromoform	1	UJ4	1	µg/Kg	1	1
OR6462-6	SA40SO44	5/3/99 11:15	8021	1,1,2,2-Tetrachloroethane	2	UJ4	1	µg/Kg	2	2
OR6462-6	SA40SO44	5/3/99 11:15	8021	1,3-Dichlorobenzene	1	UJ4	1	µg/Kg	1	0.7
OR6462-6	SA40SO44	5/3/99 11:15	8021	1,4-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6462-6	SA40SO44	5/3/99 11:15	8021	1,2-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6462-6	SA40SO44	5/3/99 11:15	8021	Bromofluorobenzene	115	J4	1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-6	SA40SO44	5/3/99 11:15	SM2540G	Percent Solids	100			%		

V = Analyte deteched in laboratory method blank.
J4 = Matrix interference confirmed by duplicate analysis (see narrative).
U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6462
		Date Submitted:	3-May-99
		Date Reported:	7-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-7	SA40SO45	5/3/99 11:20	8021	Methyl tert-butyl ether	2	U	1	µg/Kg	2	2
OR6462-7	SA40SO45	5/3/99 11:20	8021	Benzene	1	U	1	µg/Kg	1	0.8
OR6462-7	SA40SO45	5/3/99 11:20	8021	Toluene	5	U	1	µg/Kg	1	0.9
OR6462-7	SA40SO45	5/3/99 11:20	8021	Chlorobenzene	1	U	1	µg/Kg	1	0.9
OR6462-7	SA40SO45	5/3/99 11:20	8021	Ethylbenzene	1	U	1	µg/Kg	1	0.9
OR6462-7	SA40SO45	5/3/99 11:20	8021	m-Xylene & p-Xylene	2	U	1	µg/Kg	2	2
OR6462-7	SA40SO45	5/3/99 11:20	8021	o-Xylene	1	U	1	µg/Kg	1	1
OR6462-7	SA40SO45	5/3/99 11:20	8021	1,3-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-7	SA40SO45	5/3/99 11:20	8021	1,4-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-7	SA40SO45	5/3/99 11:20	8021	1,2-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-7	SA40SO45	5/3/99 11:20	8021	Bromofluorobenzene	66		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-7	SA40SO45	5/3/99 11:20	8021	Dichlorodifluoromethane	1	UJ4	1	µg/Kg	1	0.7
OR6462-7	SA40SO45	5/3/99 11:20	8021	Chloromethane	1	UJ4	1	µg/Kg	1	1
OR6462-7	SA40SO45	5/3/99 11:20	8021	Vinyl Chloride	1	UJ4	1	µg/Kg	1	1
OR6462-7	SA40SO45	5/3/99 11:20	8021	Bromomethane	1	UJ4	1	µg/Kg	1	1
OR6462-7	SA40SO45	5/3/99 11:20	8021	Chloroethane	1	UJ4	1	µg/Kg	1	0.9
OR6462-7	SA40SO45	5/3/99 11:20	8021	Trichlorofluoromethane	1	UJ4	1	µg/Kg	1	0.9
OR6462-7	SA40SO45	5/3/99 11:20	8021	1,1-Dichloroethene	1	UJ4	1	µg/Kg	1	1
OR6462-7	SA40SO45	5/3/99 11:20	8021	Methylene Chloride	6	VJ4	1	µg/Kg	3	1
OR6462-7	SA40SO45	5/3/99 11:20	8021	t-1,2-Dichloroethene	1	UJ4	1	µg/Kg	1	0.7
OR6462-7	SA40SO45	5/3/99 11:20	8021	1,1-Dichloroethane	1	UJ4	1	µg/Kg	1	0.9
OR6462-7	SA40SO45	5/3/99 11:20	8021	Chloroform	1	UJ4	1	µg/Kg	1	0.9
OR6462-7	SA40SO45	5/3/99 11:20	8021	c-1,2-Dichloroethene	1	UJ4	1	µg/Kg	1	0.9
OR6462-7	SA40SO45	5/3/99 11:20	8021	1,1,1-Trichloroethane	1	UJ4	1	µg/Kg	1	0.8
OR6462-7	SA40SO45	5/3/99 11:20	8021	Carbon Tetrachloride	1	UJ4	1	µg/Kg	1	0.8
OR6462-7	SA40SO45	5/3/99 11:20	8021	1,2-Dichloroethane	1	UJ4	1	µg/Kg	1	1
OR6462-7	SA40SO45	5/3/99 11:20	8021	Trichloroethene	1	UJ4	1	µg/Kg	1	1
OR6462-7	SA40SO45	5/3/99 11:20	8021	1,2-Dichloropropane	1	UJ4	1	µg/Kg	1	1
OR6462-7	SA40SO45	5/3/99 11:20	8021	Bromodichloromethane	1	UJ4	1	µg/Kg	1	1
OR6462-7	SA40SO45	5/3/99 11:20	8021	c-1,3-Dichloropropene	1	UJ4	1	µg/Kg	1	1
OR6462-7	SA40SO45	5/3/99 11:20	8021	t-1,3-Dichloropropene	1	UJ4	1	µg/Kg	1	0.9
OR6462-7	SA40SO45	5/3/99 11:20	8021	1,1,2-Trichloroethane	1	UJ4	1	µg/Kg	1	1
OR6462-7	SA40SO45	5/3/99 11:20	8021	Tetrachloroethene	1	UJ4	1	µg/Kg	1	1
OR6462-7	SA40SO45	5/3/99 11:20	8021	Dibromochloromethane	1	UJ4	1	µg/Kg	1	1
OR6462-7	SA40SO45	5/3/99 11:20	8021	Chlorobenzene	1	UJ4	1	µg/Kg	1	0.9
OR6462-7	SA40SO45	5/3/99 11:20	8021	Bromoform	1	UJ4	1	µg/Kg	1	1
OR6462-7	SA40SO45	5/3/99 11:20	8021	1,1,2,2-Tetrachloroethane	2	UJ4	1	µg/Kg	2	2
OR6462-7	SA40SO45	5/3/99 11:20	8021	1,3-Dichlorobenzene	1	UJ4	1	µg/Kg	1	0.7
OR6462-7	SA40SO45	5/3/99 11:20	8021	1,4-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6462-7	SA40SO45	5/3/99 11:20	8021	1,2-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6462-7	SA40SO45	5/3/99 11:20	8021	Bromofluorobenzene	88	J4	1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-7	SA40SO45	5/3/99 11:20	SM2540G	Percent Solids	95			%		

V = Analyte deteched in laboratory method blank.
J4 = Matrix interference confirmed by duplicate analysis (see narrative).
U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6462
		Date Submitted:	3-May-99
		Date Reported:	7-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-8	SA40SO46	5/3/99 11:05	8021	Methyl tert-butyl ether	2	UJ4	1	µg/Kg	2	2
OR6462-8	SA40SO46	5/3/99 11:05	8021	Benzene	1	UJ4	1	µg/Kg	1	0.8
OR6462-8	SA40SO46	5/3/99 11:05	8021	Toluene	5	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	Chlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	Ethylbenzene	1	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	m-Xylene & p-Xylene	2	UJ4	1	µg/Kg	2	2
OR6462-8	SA40SO46	5/3/99 11:05	8021	o-Xylene	1	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	1,3-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	1,4-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	1,2-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	Bromofluorobenzene	52	J4	1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-8	SA40SO46	5/3/99 11:05	8021	Dichlorodifluoromethane	1	UJ4	1	µg/Kg	1	0.7
OR6462-8	SA40SO46	5/3/99 11:05	8021	Chloromethane	1	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	Vinyl Chloride	1	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	Bromomethane	1	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	Chloroethane	1	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	Trichlorofluoromethane	1	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	1,1-Dichloroethene	1	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	Methylene Chloride	5	VJ4	1	µg/Kg	3	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	t-1,2-Dichloroethene	1	UJ4	1	µg/Kg	1	0.7
OR6462-8	SA40SO46	5/3/99 11:05	8021	1,1-Dichloroethane	1	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	Chloroform	1	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	c-1,2-Dichloroethene	1	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	1,1,1-Trichloroethane	1	UJ4	1	µg/Kg	1	0.8
OR6462-8	SA40SO46	5/3/99 11:05	8021	Carbon Tetrachloride	1	UJ4	1	µg/Kg	1	0.8
OR6462-8	SA40SO46	5/3/99 11:05	8021	1,2-Dichloroethane	1	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	Trichloroethene	1	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	1,2-Dichloropropane	1	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	Bromodichloromethane	1	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	c-1,3-Dichloropropene	1	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	t-1,3-Dichloropropene	1	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	1,1,2-Trichloroethane	1	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	Tetrachloroethene	1	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	Dibromochloromethane	1	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	Chlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	Bromoform	1	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	1,1,2,2-Tetrachloroethane	2	UJ4	1	µg/Kg	2	2
OR6462-8	SA40SO46	5/3/99 11:05	8021	1,3-Dichlorobenzene	1	UJ4	1	µg/Kg	1	0.7
OR6462-8	SA40SO46	5/3/99 11:05	8021	1,4-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	1,2-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6462-8	SA40SO46	5/3/99 11:05	8021	Bromofluorobenzene	73	J4	1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-8	SA40SO46	5/3/99 11:05	SM2540G	Percent Solids	94			%		

V = Analyte deteched in laboratory method blank.
J4 = Matrix interference confirmed by duplicate analysis (see narrative).
U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6462
		Date Submitted:	3-May-99
		Date Reported:	7-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-9	SA40SO47	5/3/99 11:00	8021	Methyl tert-butyl ether	2	U	1	µg/Kg	2	2
OR6462-9	SA40SO47	5/3/99 11:00	8021	Benzene	1	U	1	µg/Kg	1	0.8
OR6462-9	SA40SO47	5/3/99 11:00	8021	Toluene	5	U	1	µg/Kg	1	0.9
OR6462-9	SA40SO47	5/3/99 11:00	8021	Chlorobenzene	1	U	1	µg/Kg	1	0.9
OR6462-9	SA40SO47	5/3/99 11:00	8021	Ethylbenzene	1	U	1	µg/Kg	1	0.9
OR6462-9	SA40SO47	5/3/99 11:00	8021	m-Xylene & p-Xylene	2	U	1	µg/Kg	2	2
OR6462-9	SA40SO47	5/3/99 11:00	8021	o-Xylene	1	U	1	µg/Kg	1	1
OR6462-9	SA40SO47	5/3/99 11:00	8021	1,3-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-9	SA40SO47	5/3/99 11:00	8021	1,4-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-9	SA40SO47	5/3/99 11:00	8021	1,2-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-9	SA40SO47	5/3/99 11:00	8021	Bromofluorobenzene	58		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-9	SA40SO47	5/3/99 11:00	8021	Dichlorodifluoromethane	1	UJ4	1	µg/Kg	1	0.7
OR6462-9	SA40SO47	5/3/99 11:00	8021	Chloromethane	1	UJ4	1	µg/Kg	1	1
OR6462-9	SA40SO47	5/3/99 11:00	8021	Vinyl Chloride	1	UJ4	1	µg/Kg	1	1
OR6462-9	SA40SO47	5/3/99 11:00	8021	Bromomethane	1	UJ4	1	µg/Kg	1	1
OR6462-9	SA40SO47	5/3/99 11:00	8021	Chloroethane	1	UJ4	1	µg/Kg	1	0.9
OR6462-9	SA40SO47	5/3/99 11:00	8021	Trichlorofluoromethane	1	UJ4	1	µg/Kg	1	0.9
OR6462-9	SA40SO47	5/3/99 11:00	8021	1,1-Dichloroethene	1	UJ4	1	µg/Kg	1	1
OR6462-9	SA40SO47	5/3/99 11:00	8021	Methylene Chloride	5	VJ4	1	µg/Kg	3	1
OR6462-9	SA40SO47	5/3/99 11:00	8021	t-1,2-Dichloroethene	1	UJ4	1	µg/Kg	1	0.7
OR6462-9	SA40SO47	5/3/99 11:00	8021	1,1-Dichloroethane	1	UJ4	1	µg/Kg	1	0.9
OR6462-9	SA40SO47	5/3/99 11:00	8021	Chloroform	1	UJ4	1	µg/Kg	1	0.9
OR6462-9	SA40SO47	5/3/99 11:00	8021	c-1,2-Dichloroethene	1	UJ4	1	µg/Kg	1	0.9
OR6462-9	SA40SO47	5/3/99 11:00	8021	1,1,1-Trichloroethane	1	UJ4	1	µg/Kg	1	0.8
OR6462-9	SA40SO47	5/3/99 11:00	8021	Carbon Tetrachloride	1	UJ4	1	µg/Kg	1	0.8
OR6462-9	SA40SO47	5/3/99 11:00	8021	1,2-Dichloroethane	1	UJ4	1	µg/Kg	1	1
OR6462-9	SA40SO47	5/3/99 11:00	8021	Trichloroethene	1	UJ4	1	µg/Kg	1	1
OR6462-9	SA40SO47	5/3/99 11:00	8021	1,2-Dichloropropane	1	UJ4	1	µg/Kg	1	1
OR6462-9	SA40SO47	5/3/99 11:00	8021	Bromodichloromethane	1	UJ4	1	µg/Kg	1	1
OR6462-9	SA40SO47	5/3/99 11:00	8021	c-1,3-Dichloropropene	1	UJ4	1	µg/Kg	1	1
OR6462-9	SA40SO47	5/3/99 11:00	8021	t-1,3-Dichloropropene	1	UJ4	1	µg/Kg	1	0.9
OR6462-9	SA40SO47	5/3/99 11:00	8021	1,1,2-Trichloroethane	1	UJ4	1	µg/Kg	1	1
OR6462-9	SA40SO47	5/3/99 11:00	8021	Tetrachloroethene	1	UJ4	1	µg/Kg	1	1
OR6462-9	SA40SO47	5/3/99 11:00	8021	Dibromochloromethane	1	UJ4	1	µg/Kg	1	1
OR6462-9	SA40SO47	5/3/99 11:00	8021	Chlorobenzene	1	UJ4	1	µg/Kg	1	0.9
OR6462-9	SA40SO47	5/3/99 11:00	8021	Bromoform	1	UJ4	1	µg/Kg	1	1
OR6462-9	SA40SO47	5/3/99 11:00	8021	1,1,2,2-Tetrachloroethane	2	UJ4	1	µg/Kg	2	2
OR6462-9	SA40SO47	5/3/99 11:00	8021	1,3-Dichlorobenzene	1	UJ4	1	µg/Kg	1	0.7
OR6462-9	SA40SO47	5/3/99 11:00	8021	1,4-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6462-9	SA40SO47	5/3/99 11:00	8021	1,2-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6462-9	SA40SO47	5/3/99 11:00	8021	Bromofluorobenzene	80	J4	1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-9	SA40SO47	5/3/99 11:00	SM2540G	Percent Solids	98			%		

V = Analyte deteched in laboratory method blank.
J4 = Matrix interference confirmed by duplicate analysis (see narrative).
U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6462
		Date Submitted:	3-May-99
		Date Reported:	7-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-10	SA40SO48	5/3/99 10:44	8021	Methyl tert-butyl ether	2	U	1	µg/Kg	2	2
OR6462-10	SA40SO48	5/3/99 10:44	8021	Benzene	1	U	1	µg/Kg	1	0.9
OR6462-10	SA40SO48	5/3/99 10:44	8021	Toluene	5	U	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	Chlorobenzene	1	U	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	Ethylbenzene	1	U	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	m-Xylene & p-Xylene	2	U	1	µg/Kg	2	2
OR6462-10	SA40SO48	5/3/99 10:44	8021	o-Xylene	1	U	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	1,3-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	1,4-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	1,2-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	Bromofluorobenzene	49		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-10	SA40SO48	5/3/99 10:44	8021	Dichlorodifluoromethane	1	UJ4	1	µg/Kg	1	0.8
OR6462-10	SA40SO48	5/3/99 10:44	8021	Chloromethane	1	UJ4	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	Vinyl Chloride	1	UJ4	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	Bromomethane	1	UJ4	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	Chloroethane	1	UJ4	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	Trichlorofluoromethane	1	UJ4	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	1,1-Dichloroethene	1	UJ4	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	Methylene Chloride	6	VJ4	1	µg/Kg	3	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	t-1,2-Dichloroethene	1	UJ4	1	µg/Kg	1	0.8
OR6462-10	SA40SO48	5/3/99 10:44	8021	1,1-Dichloroethane	1	UJ4	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	Chloroform	1	UJ4	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	c-1,2-Dichloroethene	1	UJ4	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	1,1,1-Trichloroethane	1	UJ4	1	µg/Kg	1	0.9
OR6462-10	SA40SO48	5/3/99 10:44	8021	Carbon Tetrachloride	1	UJ4	1	µg/Kg	1	0.9
OR6462-10	SA40SO48	5/3/99 10:44	8021	1,2-Dichloroethane	1	UJ4	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	Trichloroethene	1	UJ4	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	1,2-Dichloropropane	1	UJ4	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	Bromodichloromethane	1	UJ4	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	c-1,3-Dichloropropene	1	UJ4	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	t-1,3-Dichloropropene	1	UJ4	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	1,1,2-Trichloroethane	1	UJ4	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	Tetrachloroethene	1	UJ4	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	Dibromochloromethane	1	UJ4	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	Chlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	Bromoform	1	UJ4	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	1,1,2,2-Tetrachloroethane	2	UJ4	1	µg/Kg	2	2
OR6462-10	SA40SO48	5/3/99 10:44	8021	1,3-Dichlorobenzene	1	UJ4	1	µg/Kg	1	0.8
OR6462-10	SA40SO48	5/3/99 10:44	8021	1,4-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	1,2-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6462-10	SA40SO48	5/3/99 10:44	8021	Bromofluorobenzene	72	J4	1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-10	SA40SO48	5/3/99 10:44	SM2540G	Percent Solids	93			%		

V = Analyte detected in laboratory method blank.
J4 = Matrix interference confirmed by duplicate analysis (see narrative).
U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #:	OR6462
		Date Submitted:	3-May-99
		Date Reported:	7-May-99
Address:	1899 N. Hobson Ave	Project #:	SA-40
	Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-11	SA40SO49	5/3/99 10:40	8021	Methyl tert-butyl ether	2	U	1	µg/Kg	2	2
OR6462-11	SA40SO49	5/3/99 10:40	8021	Benzene	1	U	1	µg/Kg	1	0.8
OR6462-11	SA40SO49	5/3/99 10:40	8021	Toluene	5	U	1	µg/Kg	1	0.9
OR6462-11	SA40SO49	5/3/99 10:40	8021	Chlorobenzene	1	U	1	µg/Kg	1	0.9
OR6462-11	SA40SO49	5/3/99 10:40	8021	Ethylbenzene	1	U	1	µg/Kg	1	0.9
OR6462-11	SA40SO49	5/3/99 10:40	8021	m-Xylene & p-Xylene	2	U	1	µg/Kg	2	2
OR6462-11	SA40SO49	5/3/99 10:40	8021	o-Xylene	1	U	1	µg/Kg	1	1
OR6462-11	SA40SO49	5/3/99 10:40	8021	1,3-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-11	SA40SO49	5/3/99 10:40	8021	1,4-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-11	SA40SO49	5/3/99 10:40	8021	1,2-Dichlorobenzene	1	U	1	µg/Kg	1	1
OR6462-11	SA40SO49	5/3/99 10:40	8021	Bromofluorobenzene	46		1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-11	SA40SO49	5/3/99 10:40	8021	Dichlorodifluoromethane	1	UJ4	1	µg/Kg	1	0.7
OR6462-11	SA40SO49	5/3/99 10:40	8021	Chloromethane	1	UJ4	1	µg/Kg	1	1
OR6462-11	SA40SO49	5/3/99 10:40	8021	Vinyl Chloride	1	UJ4	1	µg/Kg	1	1
OR6462-11	SA40SO49	5/3/99 10:40	8021	Bromomethane	1	UJ4	1	µg/Kg	1	1
OR6462-11	SA40SO49	5/3/99 10:40	8021	Chloroethane	1	UJ4	1	µg/Kg	1	0.9
OR6462-11	SA40SO49	5/3/99 10:40	8021	Trichlorofluoromethane	1	UJ4	1	µg/Kg	1	0.9
OR6462-11	SA40SO49	5/3/99 10:40	8021	1,1-Dichloroethene	1	UJ4	1	µg/Kg	1	1
OR6462-11	SA40SO49	5/3/99 10:40	8021	Methylene Chloride	10	VJ4	1	µg/Kg	3	1
OR6462-11	SA40SO49	5/3/99 10:40	8021	t-1,2-Dichloroethene	1	UJ4	1	µg/Kg	1	0.7
OR6462-11	SA40SO49	5/3/99 10:40	8021	1,1-Dichloroethane	1	UJ4	1	µg/Kg	1	0.9
OR6462-11	SA40SO49	5/3/99 10:40	8021	Chloroform	1	UJ4	1	µg/Kg	1	0.9
OR6462-11	SA40SO49	5/3/99 10:40	8021	c-1,2-Dichloroethene	1	UJ4	1	µg/Kg	1	0.9
OR6462-11	SA40SO49	5/3/99 10:40	8021	1,1,1-Trichloroethane	1	UJ4	1	µg/Kg	1	0.8
OR6462-11	SA40SO49	5/3/99 10:40	8021	Carbon Tetrachloride	1	UJ4	1	µg/Kg	1	0.8
OR6462-11	SA40SO49	5/3/99 10:40	8021	1,2-Dichloroethane	1	UJ4	1	µg/Kg	1	1
OR6462-11	SA40SO49	5/3/99 10:40	8021	Trichloroethene	1	UJ4	1	µg/Kg	1	1
OR6462-11	SA40SO49	5/3/99 10:40	8021	1,2-Dichloropropane	1	UJ4	1	µg/Kg	1	1
OR6462-11	SA40SO49	5/3/99 10:40	8021	Bromodichloromethane	1	UJ4	1	µg/Kg	1	1
OR6462-11	SA40SO49	5/3/99 10:40	8021	c-1,3-Dichloropropene	1	UJ4	1	µg/Kg	1	1
OR6462-11	SA40SO49	5/3/99 10:40	8021	t-1,3-Dichloropropene	1	UJ4	1	µg/Kg	1	0.9
OR6462-11	SA40SO49	5/3/99 10:40	8021	1,1,2-Trichloroethane	1	UJ4	1	µg/Kg	1	1
OR6462-11	SA40SO49	5/3/99 10:40	8021	Tetrachloroethene	1	UJ4	1	µg/Kg	1	1
OR6462-11	SA40SO49	5/3/99 10:40	8021	Dibromochloromethane	1	UJ4	1	µg/Kg	1	1
OR6462-11	SA40SO49	5/3/99 10:40	8021	Chlorobenzene	1	UJ4	1	µg/Kg	1	0.9
OR6462-11	SA40SO49	5/3/99 10:40	8021	Bromoform	1	UJ4	1	µg/Kg	1	1
OR6462-11	SA40SO49	5/3/99 10:40	8021	1,1,2,2-Tetrachloroethane	2	UJ4	1	µg/Kg	2	2
OR6462-11	SA40SO49	5/3/99 10:40	8021	1,3-Dichlorobenzene	1	UJ4	1	µg/Kg	1	0.7
OR6462-11	SA40SO49	5/3/99 10:40	8021	1,4-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6462-11	SA40SO49	5/3/99 10:40	8021	1,2-Dichlorobenzene	1	UJ4	1	µg/Kg	1	1
OR6462-11	SA40SO49	5/3/99 10:40	8021	Bromofluorobenzene	94	J4	1	%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6462-11	SA40SO49	5/3/99 10:40	SM2540G	Percent Solids	95			%		

V = Analyte deteched in laboratory method blank.
J4 = Matrix interference confirmed by duplicate analysis (see narrative).
U = Compound was analyzed for but not detected to the level shown.

QSARF #_____

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
NTC Orlando	SA-40	

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE	FAX
FL	Rusty Cope	496-2173	

CLIENT NAME	CLIENT PROJECT MANAGER
ENV DET CHAS	A.J. Moyer

CLIENT ADDRESS (CITY, STATE, ZIP): 1899 N. Hobson Ave, N. Chas SC 29405

PAGE ____ OF ____

☐ STANDARD REPORT DELIVERY

☐ EXPEDITED REPORT DELIVERY (surcharge)

Date Due: _____

SAMPLE						MATRIX TYPE									REQUIRED ANALYSIS								
STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	VOC 8021								
						PRESERVATIVE									NUMBER OF CONTAINERS SUBMITTED								REMARKS
1	5/3/99	1215	X		SA40S039					X					X								
2	5/3/99	1205	X		SA40S040					X					X								
3	5/3/99	1208	X		SA40S041					X					X								
4	5/3/99	1135	X		SA40S042					X					X								
5	5/3/99	1140	X		SA40S043					X					X								
6	5/3/99	1115	X		SA40S044					X					X								
7	5/3/99	1120	X		SA40S045					X					X								
8	5/3/99	1105	X		SA40S046					X					X								
9	5/3/99	1100	X		SA40S047					X					X								
10	5/3/99	1044	X		SA40S048					X					X								
11	5/3/99	1040	X		SA40S049					X					X								
12					SA-40S0																		
13																							
14																							

SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
			KW Cope	5/3/99	1415	James W. Gregory	5/3/99	1415
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO	REMARKS
Kim L ☐ Jackson ☒ Orlando	5/3/99	3:30pm	☐ YES ☒ NO	OR161	

Environmental Conservation Laboratories
10207 General Drive
Orlando, Florida 32824-8529
07 / 826-5314
Fax 407 / 850-6945
www.encolabs.com

ENCO Laboratories

DHRS Certification No. E83182

CLIENT : Environmental Detachment
ADDRESS: Charleston
1899 N. Hobson Ave
Charleston, SC 29405-2106

REPORT # : OR6417
DATE SUBMITTED: April 29, 1999
DATE REPORTED : May 6, 1999

ATTENTION: Rusty Cope

SAMPLE IDENTIFICATION

Sample submitted and
identified by client as:

PROJECT #: SA-35

NTC Orlando

04/28/99

#1 - SA-35 HYDRAULIC @ 16:00

JECT MANAGER Marcia C. Terlep
Marcia C. Terlep

Environmental Conservation Laboratories
10207 General Drive
Orlando, Florida 32824-8529
07 / 826-5314
Fax 407 / 850-6945
www.encolabs.com

ENCO Laboratories

DHRS Certification No. E83182

Client: Environmental Detachment Charleston

Address: 1899 N. Hobson Ave
Charleston, SC 29405-2106

Report #: OR6417
Date Submitted: 29-Apr-99
Date Reported: 6-May-99
Project #: SA-35
Project Name: NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6417-1	SA-35 HYDRAULIC	4/28/99 16:00	8082	PCB-1016/1242	100	U		µg/Kg	100	10
OR6417-1	SA-35 HYDRAULIC	4/28/99 16:00	8082	PCB-1221	100	U		µg/Kg	100	10
OR6417-1	SA-35 HYDRAULIC	4/28/99 16:00	8082	PCB-1232	100	U		µg/Kg	100	10
OR6417-1	SA-35 HYDRAULIC	4/28/99 16:00	8082	PCB-1248	100	U		µg/Kg	100	10
OR6417-1	SA-35 HYDRAULIC	4/28/99 16:00	8082	PCB-1254	100	U		µg/Kg	100	10
OR6417-1	SA-35 HYDRAULIC	4/28/99 16:00	8082	PCB-1260	100	U		µg/Kg	100	10
OR6417-1	SA-35 HYDRAULIC	4/28/99 16:00	8082	2,4,5,6-TCMX	124			%		
OR6417-1	SA-35 HYDRAULIC	4/28/99 16:00	8082	DBC	*			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6417-1	SA-35 HYDRAULIC	4/28/99 16:00	5050/9252	Total Halides	500	U		mg/Kg	500	500

* = Matrix interference; unable to obtain surrogate recovery.
U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : OR6417
DATE REPORTED: May 6, 1999
REFERENCE : SA-35
PROJECT NAME : NTC Orlando

RESULTS OF ANALYSIS

EPA METHOD 8082 - Aroclors	**LAB BLANK**	**Units**
PCB-1016/1242	100 U	µg/Kg
PCB-1221	100 U	µg/Kg
PCB-1232	100 U	µg/Kg
PCB-1248	100 U	µg/Kg
PCB-1254	100 U	µg/Kg
PCB-1260	100 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
2,4,5,6-TCMX	100	30-150
DBC	100	37-128
Date Extracted	04/29/99	
Date Analyzed	05/01/99	

MISCELLANEOUS	**METHOD**	**LAB BLANK**	**Units**
Total Halides	5050/9253	500 U	mg/Kg
Date Analyzed		05/06/99	

Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : OR6417
DATE REPORTED: May 6, 1999
REFERENCE : SA-35
PROJECT NAME : NTC Orlando

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 8082				
PCB-1260	105/143/129	57-167	31	13
MISCELLANEOUS				
Total Halides, 5050/9253	NA/ NA/105	-	NA	

Environmental Conservation Laboratories Comprehensive QA Plan #960038

< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference

This report shall not be reproduced except in full, without the written approval of the laboratory. Results for these procedures apply only to the samples as submitted.

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
NTC Orlando	SA-35	

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE	FAX
FL	Rusty Cope	496-2173	

CLIENT NAME	CLIENT PROJECT MANAGER
ENV DET CHASN	A. Mojer

CLIENT ADDRESS (CITY, STATE, ZIP): 1899 N Hobson Ave, N. Chas. 29405

MATRIX TYPE: SURFACE WATER; GROUND WATER; WASTEWATER; DRINKING WATER; SOIL/SOLID/SEDIMENT; NONAQUEOUS LIQUID (oil, solvent, etc.); AIR; SLUDGE; OTHER

REQUIRED ANALYSIS: Oil (Hydraulic); PCB's 8082; TOX

PAGE 1 OF 1

☐ STANDARD REPORT DELIVERY

☐ EXPEDITED REPORT DELIVERY (surcharge)

Date Due: 5-5-99

STATION	SAMPLE DATE	SAMPLE TIME	GRAB	COMP	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS SUBMITTED	REMARKS
1	4/28/99	1600	X		SA-35 Hydraulic	1 X	Oil (Hydraulic) from Reservoirs to hydraulic Lifts
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							

SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
RELINQUISHED BY: (SIGNATURE) R W Cope	4/29/99	1100	RECEIVED BY: (SIGNATURE) James W Gregory	4/29/99	1100	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO	REMARKS
Kim ☐ Jackson ☒ Orlando	4/29/99	1:30PM	☐ YES ☒ NO	OR64	

STUDY AREA 42

1. INTRODUCTION

1.1 STUDY AREA 42

SA 42 is located south of Iwo Jima Street and west Leahy Avenue on the Main Base, Naval Training Center, Orlando (Figure 1). The SA includes several buildings their associated grounds. PAH's were detected in north of Building 2056 and east of Building 2055 (figure 2).

1.2 SA 42 INTERIM REMEDIAL ACTION

SOUTHDIV tasked the DET to perform an IRA for this site. The objective of the IRA was to excavate and dispose of soil contaminated with PAHs. The excavation was to continue until the sampling program indicated with reasonable confidence that the concentrations of contaminants at the site were less than residential limits specified by FDEP SCG, dated 30 April 1998 or USEPA Region III, dated 01 October 1998, whichever specifies the stricter criteria.

1.2.1 SA 42 Interim Remedial Action Execution Summary

The execution of this IRA consisted of excavating an area approximately 12′ x 10′ to a depth of 1′ at sample location 42S001 (Figure 3) and an area approximately 10′ x 10′ to a depth of 1′ at sample location 42S002 (Figure 4). Soil removed from the site was characterized as non-hazardous and was sent to a treatment facility for incineration. A Confirmation sample was collected from each sidewall upon completion of the excavation and tested for PAHs. The results of these samples were all less than the RGOs except for the sample 2′ north of Building 2056 (sample 99SPORT0161-7) as shown in Figure 3. The OPT was informed that sample 99SPORT0161-7 had a result of 0.456 parts per million of Benzo(a)pyrene. The OPT instructed the DET to excavate up to Building 2056 and to take an additional informational sample. The DET excavated an additional 2′ x 10′ to a depth of 1′and collected sample 99SPORT0191-1 as shown in Figure 3. The results of this sample were less than the RGOs.

2.0 INTERIM REMEDIAL ACTION EXCECUTION

2.1 ACTIONS PERFORMED BY THE INTERIM REMEDIAL ACTION WORK PLAN

Actions performed are listed below.

- Collection of waste characterization samples
- Excavation and disposal of an area approximately 10′ x 10′ x 1′ and an area 12′ x 10′ x 1′
- Collection of confirmatory samples from each sidewall for analysis of PAHs
- Restoration of site by backfilling, grading to surrounding area, and seeding

2.2 OBSERVATIONS NOTES

2.2.1 Soil Conditions

From ground surface to the bottom of the excavation the soil was dark silty sand.

2.3 PLAN MODIFICATIONS AND JUSTIFICATION

Informed the OPT that sample SA35SA11 located along the north side of Building 2079 had a result of 6.4 parts per million of arsenic. The OPT instructed the DET not to excavate under Building 2079. Informed the OPT that sample 99SPORT0161-7 had a result of 0.456 parts per million of Benzo(a)pyrene. The OPT instructed the DET to excavate up to Building 2056 and to take an additional informational sample. The DET excavated an additional 2′ x 10′ to a depth of 1′. Sample 99SPORT0191-1 is provided as the informational sample (Appendix G2).

3.0 INTERIM REMEDIAL ACTION OUTCOME

3.1 SITE CONDITIONS FOLLOWING COMPLETION OF WORK

Following completion of work, the DET had removed 11 tons of PAH contaminated soil. The site was backfilled, graded to surrounding area and seeded. Site photographs are included in Appendix G1.

4.0 SAMPLING

4.1 CONFIRMATION SAMPLING

Upon completion of work a confirmation sample was taken on each sidewall and tested for PAHs (Figures 3 & 4). See appendix G2 for sampling documentation.

4.2 WASTE CHARACTERIZATION SAMPLING

Waste characterization samples SA-42001 & SA-42002 were taken and analyzed for TCLP metals. See appendix G2 for sampling documentation.

5.0 WASTE GENERATION

5.1 Non-Hazardous Waste

A total of 11 tons of non-hazardous PAH contaminated soil was disposed of to a permitted treatment, storage and disposal facility. Waste Manifests are in appendix G3.

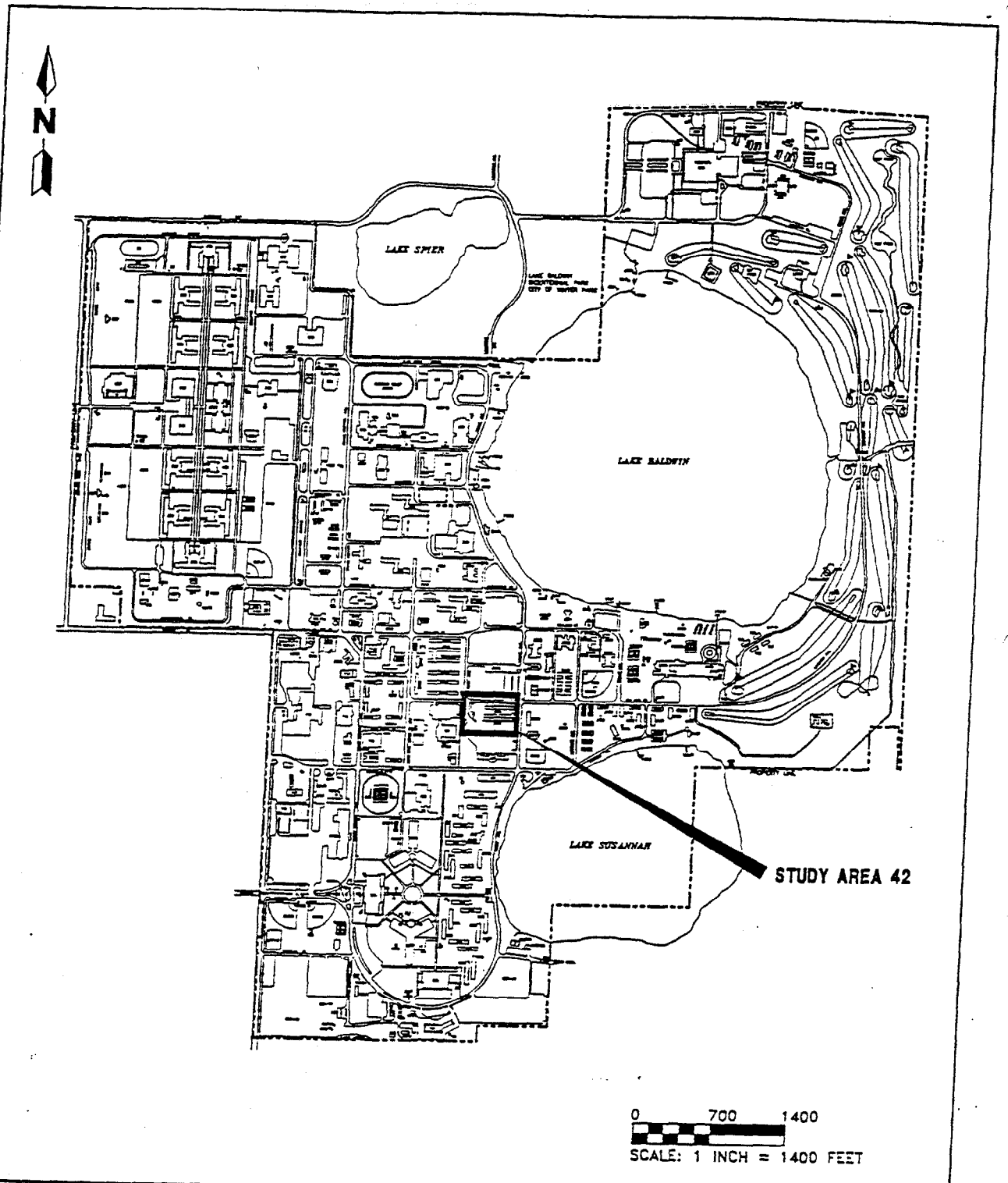


FIGURE 1
LOCATION OF STUDY AREA 42

K:\025301\02530-09\SSR\02530832.DWG, MAW-HP 05/29/96 13:27:51, AutoCAD R14

BASE REALIGNMENT AND CLOSURE ENVIRONMENTAL SITE SCREENING REPORT, STUDY AREA 42

NAVAL TRAINING CENTER ORLANDO, FLORIDA

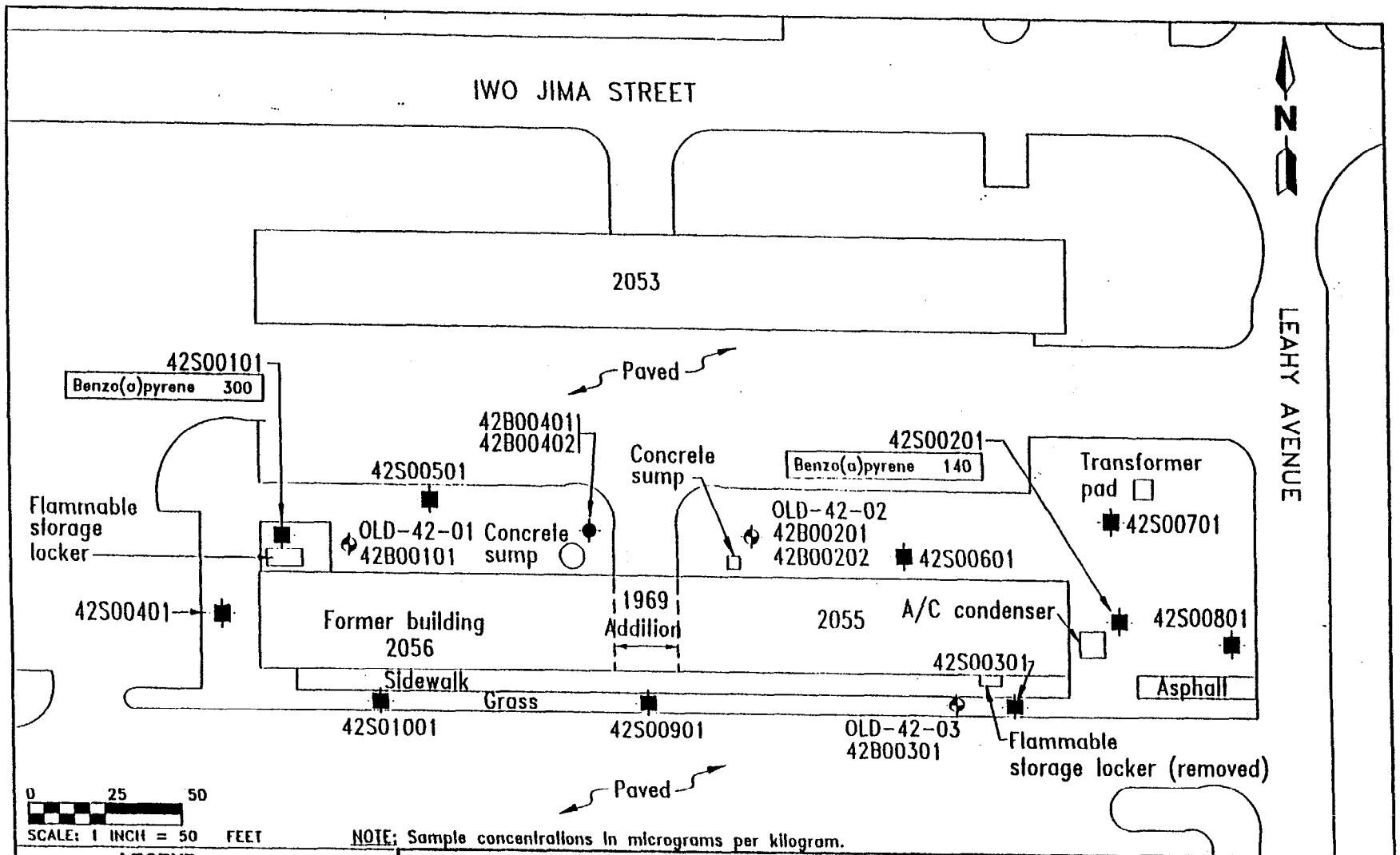
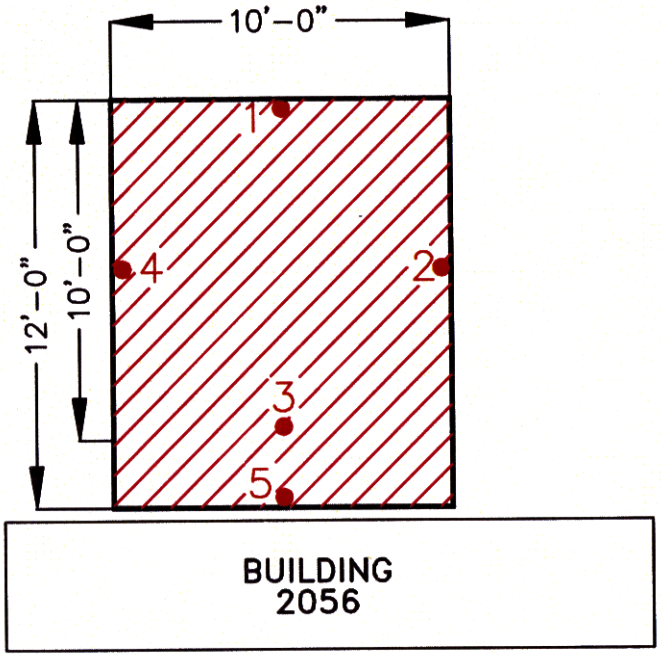


FIGURE 2
SURFACE SOIL, SOIL BORING, AND MONITORING WELL LOCATIONS, BUILDING 2055, AIR CONDITIONER AND VENDING MACHINE MAINTENANCE

BASE REALIGNMENT AND CLOSURE ENVIRONMENTAL SITE SCREENING REPORT, STUDY AREA 42

NAVAL TRAINING CENTER ORLANDO, FLORIDA



LEGEND

1 ●	CONFIRMATORY SAMPLE ID 99SPORT0161-5
2 ●	CONFIRMATORY SAMPLE ID 99SPORT0161-6
3 ●	CONFIRMATORY SAMPLE ID 99SPORT0161-7
4 ●	CONFIRMATORY SAMPLE ID 99SPORT0161-8
5 ●	CONFIRMATORY SAMPLE ID 99SPORT0191-1
▨	EXCAVATED TO 1 FOOT DEEP

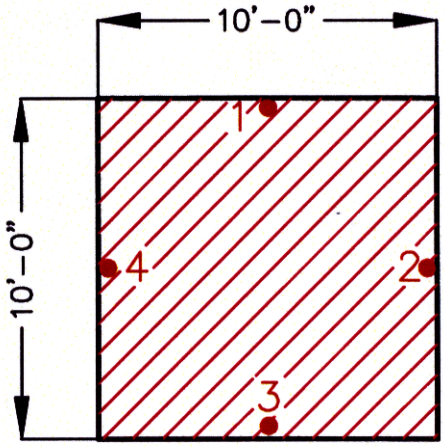
N

ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE – BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 3
NAVAL TRAINING CENTER CENTER ORLANDO SA 42
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS

DATE:	PREPARED BY:	REV
19 JULY 1999	A. J. MOYER	–

SCALE: NONE | SHEET: –



LEGEND

1 ●	CONFIRMATORY SAMPLE ID 99SPORT0161-1
2 ●	CONFIRMATORY SAMPLE ID 99SPORT0161-2
3 ●	CONFIRMATORY SAMPLE ID 99SPORT0161-3
4 ●	CONFIRMATORY SAMPLE ID 99SPORT0161-4
▨	EXCAVATED TO 1 FOOT DEEP

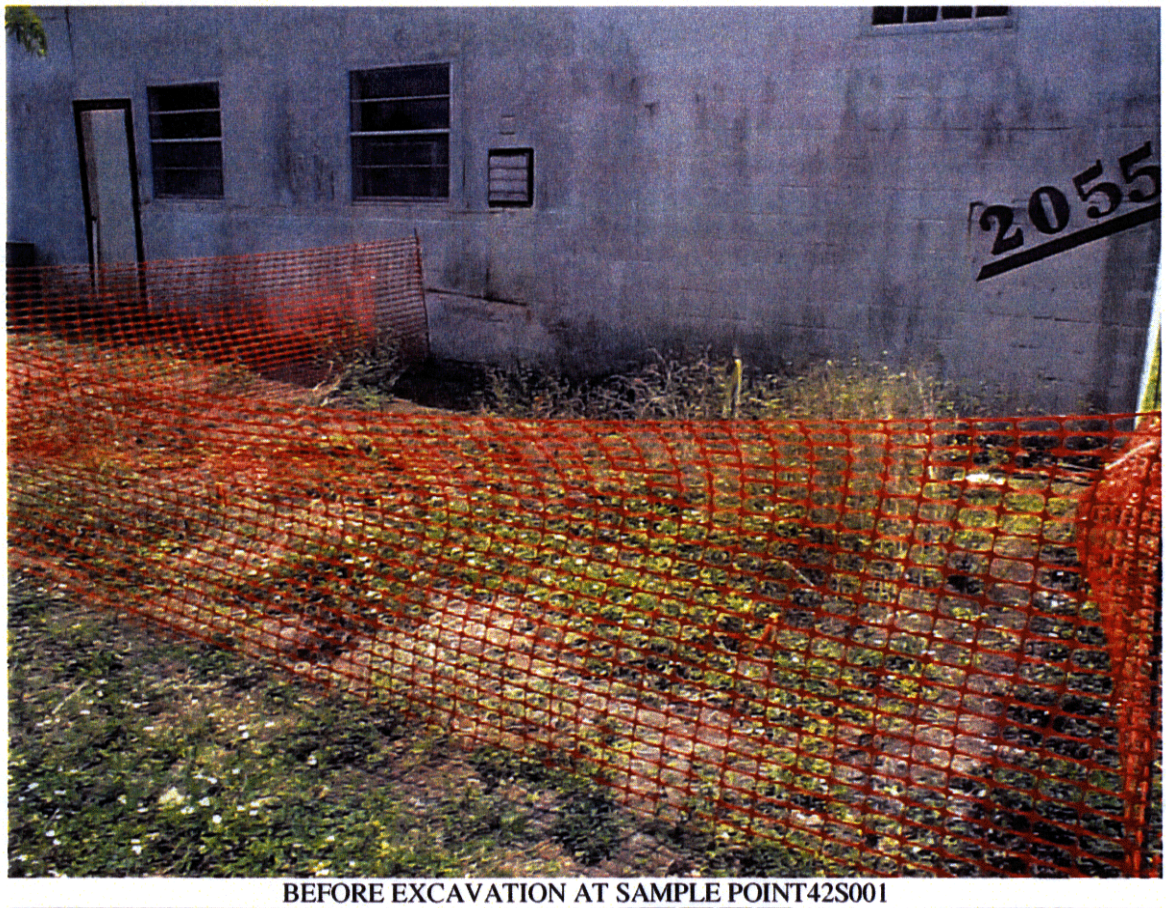
N

ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE - BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

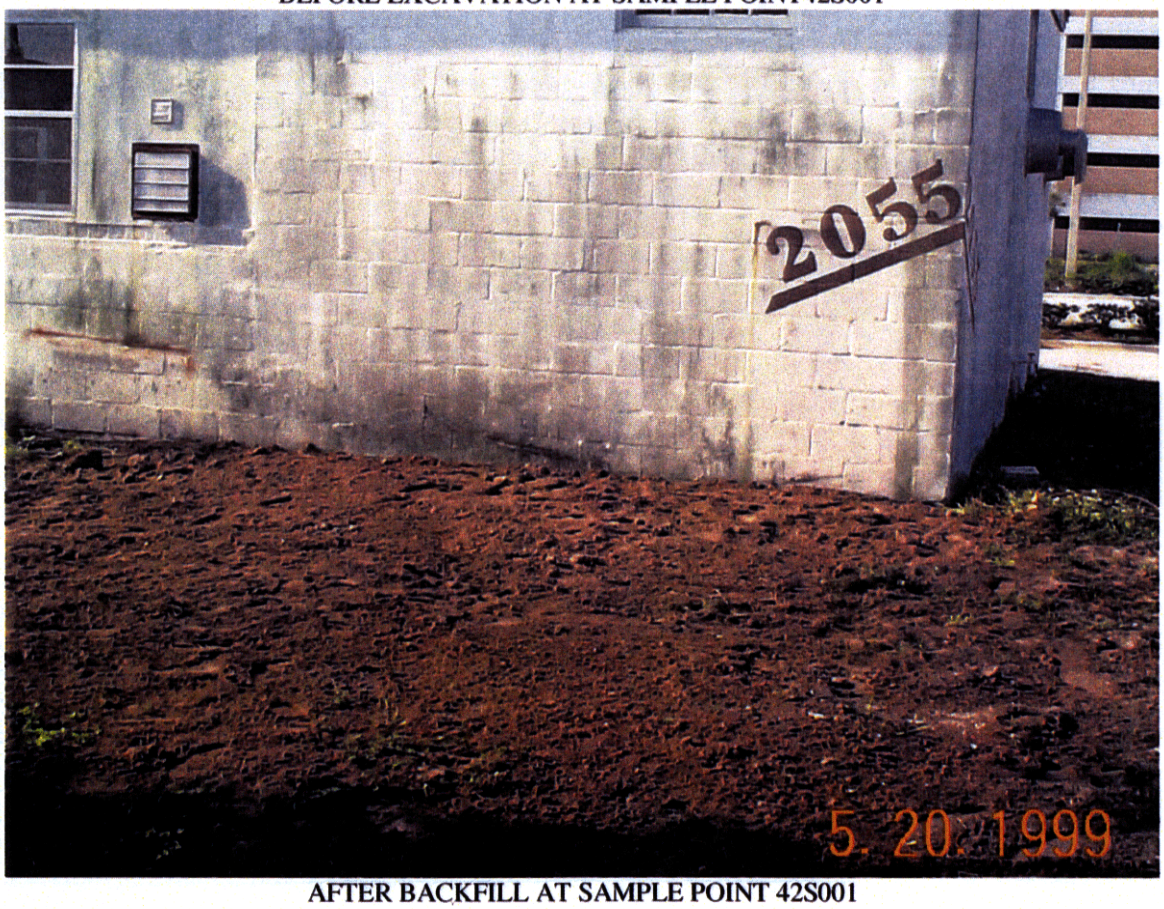
FIGURE 4
NAVAL TRAINING CENTER CENTER ORLANDO SA 42
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS

DATE:	PREPARED BY:	REV
19 JULY 1999	A. J. MOYER	-

SCALE: NONE | SHEET: -



BEFORE EXCAVATION AT SAMPLE POINT42S001



AFTER BACKFILL AT SAMPLE POINT 42S001

SAMPLE POINT 42S001 SEEDED

AFTER BACKFILLING AT SAMPLE POINT 42S002

SAMPLE POINT 42S002 SEEDED

CONFIRMATION SAMPLES

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston. South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 05, 1999

Sample ID : 99SPORT0161-5
Lab ID : 9904953-05
Matrix : Soil
Date Collected : 04/29/99
Date Received : 04/30/99
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 18 items											
-Methylnaphthalene	U	ND	6.66	33.3	ug/kg	1.0	JPA	05/05/99	0934	148065	1
2-Methylnaphthalene	U	ND	6.66	33.3	ug/kg	1.0					
Acenaphthene	U	ND	6.66	33.3	ug/kg	1.0					
Acenaphthylene	J	31.7	6.66	33.3	ug/kg	1.0					
Anthracene	U	ND	6.66	33.3	ug/kg	1.0					
Benzo(a)anthracene		57.1	6.66	33.3	ug/kg	1.0					
Benzo(a)pyrene		92.8	6.66	33.3	ug/kg	1.0					
Benzo(b)fluoranthene		164	6.66	33.3	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	6.66	33.3	ug/kg	1.0					
Benzo(k)fluoranthene		67.4	6.66	33.3	ug/kg	1.0					
Chrysene		126	6.66	33.3	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	26.6	33.3	ug/kg	1.0					
Fluoranthene		155	6.66	33.3	ug/kg	1.0					
Fluorene	U	ND	6.66	33.3	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	23.3	33.3	ug/kg	1.0					
Naphthalene	U	ND	6.66	33.3	ug/kg	1.0					
Phenanthrene		64.8	6.66	33.3	ug/kg	1.0					
Pyrene		226	6.66	33.3	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds CPU 05/04/99 1800 148065 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
-Fluorobiphenyl	M610-5972	51.8	(44.7 - 110.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9904953-05

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 05, 1999

Sample ID : 99SPORT0161-5

Surrogate Recovery	Test	Percent%	Acceptable Limits
Nitrobenzene-d5	M610-5972	42.7	(42.4 - 107.)
p-Terphenyl-d14	M610-5972	84.1	(45.5 - 104.)

M = Method	Method-Description
M 1	EPA 8270
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874:
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 05, 1999

Sample ID	: 99SPORT0161-6
Lab ID	: 9904953-06
Matrix	: Soil
Date Collected	: 04/29/99
Date Received	: 04/30/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 18 items											
Methylnaphthalene	U	ND	6.66	33.3	ug/kg	1.0	JPA	05/04/99	1628	148065	1
2-Methylnaphthalene	U	ND	6.66	33.3	ug/kg	1.0					
Acenaphthene	U	ND	6.66	33.3	ug/kg	1.0					
Acenaphthylene	U	ND	6.66	33.3	ug/kg	1.0					
Anthracene	U	ND	6.66	33.3	ug/kg	1.0					
Benzo(a)anthracene	J	25.6	6.66	33.3	ug/kg	1.0					
Benzo(a)pyrene		40.5	6.66	33.3	ug/kg	1.0					
Benzo(b)fluoranthene		79.9	6.66	33.3	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	6.66	33.3	ug/kg	1.0					
Benzo(k)fluoranthene	J	30.2	6.66	33.3	ug/kg	1.0					
Chrysene		60.1	6.66	33.3	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	26.6	33.3	ug/kg	1.0					
Fluoranthene		74.1	6.66	33.3	ug/kg	1.0					
Fluorene	U	ND	6.66	33.3	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	23.3	33.3	ug/kg	1.0					
Naphthalene	U	ND	6.66	33.3	ug/kg	1.0					
Phenanthrene		35.7	6.66	33.3	ug/kg	1.0					
Pyrene		102	6.66	33.3	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds RDH 05/03/99 0800 148065 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610-5972	52.5	(44.7 - 110.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9904953-06

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 05, 1999

Sample ID : 99SPORT0161-6

Surrogate Recovery	Test	Percent%	Acceptable Limits
Nitrobenzene-d5	M610-5972	47.8	(42.4 - 107.)
p-Terphenyl-d14	M610-5972	71.8	(45.5 - 104.)

M = Method	Method-Description
M 1	EPA 8270
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager. Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9904953-06

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874[illegible]
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 05, 1999

Sample ID	: 99SPORT0161-7
Lab ID	: 9904953-07
Matrix	: Soil
Date Collected	: 04/29/99
Date Received	: 04/30/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 18 items											
Methylnaphthalene	U	ND	26.6	133	ug/kg	4.0	JPA	05/04/99	1655	148065	1
Methylnaphthalene	U	ND	26.6	133	ug/kg	4.0					
Acenaphthene	U	ND	26.6	133	ug/kg	4.0					
Acenaphthylene		166	26.6	133	ug/kg	4.0					
Anthracene	U	ND	26.6	133	ug/kg	4.0					
Benzo(a)anthracene		247	26.6	133	ug/kg	4.0					
Benzo(a)pyrene		456	26.6	133	ug/kg	4.0					
Benzo(b)fluoranthene		778	26.6	133	ug/kg	4.0					
Benzo(ghi)perylene	U	ND	26.6	133	ug/kg	4.0					
Benzo(k)fluoranthene		283	26.6	133	ug/kg	4.0					
Chrysene		529	26.6	33.3	ug/kg	4.0					
Dibenzo(a,h)anthracene	U	ND	107	133	ug/kg	4.0					
Fluoranthene		604	26.6	133	ug/kg	4.0					
Fluorene	U	ND	26.6	133	ug/kg	4.0					
Indeno(1,2,3-c,d)pyrene	U	ND	93.2	133	ug/kg	4.0					
Naphthalene	U	ND	26.6	133	ug/kg	4.0					
Phenanthrene		159	26.6	133	ug/kg	4.0					
Pyrene		871	26.6	133	ug/kg	4.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds RDH 05/03/99 0800 148065 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
Fluorobiphenyl	M610-5972	57.3	(44.7 - 110.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9904953-07

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 05, 1999

Sample ID : 99SPORT0161-7

Surrogate Recovery	Test	Percent%	Acceptable Limits
Nitrobenzene-d5	M610-5972	44.4	(42.4 - 107.)
p-Terphenyl-d14	M610-5972	80.7	(45.5 - 104.)

M = Method	Method-Description
M 1	EPA 8270
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 05, 1999

Sample ID	: 99SPORT0161-8
Lab ID	: 9904953-08
Matrix	: Soil
Date Collected	: 04/29/99
Date Received	: 04/30/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 18 items											
1-Methylnaphthalene	U	ND	26.6	133	ug/kg	4.0	JPA	05/04/99	1722	148065	.
2-Methylnaphthalene	U	ND	26.6	133	ug/kg	4.0					
Acenaphthene	U	ND	26.6	133	ug/kg	4.0					
Acenaphthylene	U	ND	26.6	133	ug/kg	4.0					
Anthracene	J	66.9	26.6	133	ug/kg	4.0					
Benzo(a)anthracene	J	106	26.6	133	ug/kg	4.0					
Benzo(a)pyrene	J	86.6	26.6	133	ug/kg	4.0					
Benzo(b)fluoranthene		152	26.6	133	ug/kg	4.0					
Benzo(ghi)perylene	U	ND	26.6	133	ug/kg	4.0					
Benzo(k)fluoranthene	U	ND	26.6	133	ug/kg	4.0					
Chrysene		110	26.6	33.3	ug/kg	4.0					
Dibenzo(a,h)anthracene	U	ND	107	133	ug/kg	4.0					
Fluoranthene		140	26.6	133	ug/kg	4.0					
Fluorene	U	ND	26.6	133	ug/kg	4.0					
Indeno(1,2,3-c,d)pyrene	U	ND	93.2	133	ug/kg	4.0					
Naphthalene	U	ND	26.6	133	ug/kg	4.0					
Phenanthrene	U	ND	26.6	133	ug/kg	4.0					
Pyrene		190	26.6	133	ug/kg	4.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds RDH 05/03/99 0800 148065 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610-5972	52.4	(44.7 - 110.)

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 05, 1999

Sample ID : 99SPORT0161-8

Surrogate Recovery	Test	Percent%	Acceptable Limits
Nitrobenzene-d5	M610-5972	44.0	(42.4 - 107.)
p-Terphenyl-d14	M610-5972	81.0	(45.5 - 104.)

M = Method	Method-Description
M 1	EPA 8270
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

— 3-DAY TURN AROUND —

General Engineering Lab[illegible]ies, Inc.
2040 Savage Road
Charleston, South Carolin[illegible]407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

CHAIN OF CUSTODY RECORD

Client Name/Facility Name: NTC Orlando SA42 & 37

Collected by/Company: ENV DET CHASN

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticides 8081	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	PAH 8310	Remarks
99Sport 0161-1	4/29/99	1300		X	X	1																X	SA42S002 Location
99Sport 0161-2	4/29/99	1310		X	X	1																X	1
99Sport 0161-3	4/29/99	1325		X	X	1																X	
99Sport 0161-4	4/29/99	1335		X	X	1																X	
99Sport 0161-5	4/29/99	1400		X	X	1																X	SA42S001 Location
99Sport 0161-6	4/29/99	1409		X	X	1																X	
99Sport 0161-7	4/29/99	1420		X	X	1																X	
99Sport 0161-8	4/29/99	1430		X	X	1																X	
99Sport 0161-9	4/29/99	1435	X			2																X	Field Blank SA-42S001Location SA42F-0161-9
99Sport 0161-10	4/29/99	1450		X	X	1									X								SA-37 Location
99Sport 0161-11	4/29/99	1500		X	X	1									X								
99Sport 0161-12	4/29/99	1509		X	X	1									X								
99Sport 0161-13	4/29/99	1517		X	X	1									X								

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Relinquished by:	Date:	Time:	Received by:
K W Cope	4/29/99	1800 1500	RWC Michael P. Schuler
Relinquished by:	Date:	Time:	Received by lab by:
			T. Cole

Relinquished by:	Date:	Time:	Received by:	Remarks:
Michael P. Schuler	4/30/99	1145		

White = [illegible] collector Yellow = file Pink = with report

— 3 DAY TU (TROUND —

CHAIN OF CUSTODY RECORD

General Engineering Lab Inc.
2040 Savage Road
Charleston, South Carolina 29407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Page 2 of 2

Client Name/Facility Name: NTC Orlando SA-42+37

Collected by/Company: ENV DET CHASN

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide 8081	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type			Remarks
99Sport0161-14	4/29/99	1525		X		X	1								X										SA-37 LOCATION

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
K W Cope	4/29/99	1900	Michael P. Schuler	Michael P. Schuler	4/30/99	1145	
Relinquished by:	Date:	Time:	Received by lab by:	Date:	Time:	Remarks:	
			T. G. Clark	4-30-99	1145		

White = collector Yellow = file Pink = with report

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 21, 1999

Sample ID	: 99SPORT0191-1
Lab ID	: 9905674-01
Matrix	: Soil
Date Collected	: 05/19/99
Date Received	: 05/20/99
Priority	: Urgent
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	630	1310	ug/kg	4.0	JPA	05/21/99	1041	149649	1
Acenaphthylene	U	ND	577	1310	ug/kg	4.0					
Anthracene	U	ND	341	1310	ug/kg	4.0					
Benzo(a)anthracene	U	ND	262	1310	ug/kg	4.0					
Benzo(a)pyrene	U	ND	289	1310	ug/kg	4.0					
Benzo(b)fluoranthene	U	ND	564	1310	ug/kg	4.0					
Benzo(ghi)perylene	U	ND	315	1310	ug/kg	4.0					
Benzo(k)fluoranthene	U	ND	525	1310	ug/kg	4.0					
Chrysene	U	ND	210	1310	ug/kg	4.0					
Dibenzo(a,h)anthracene	U	ND	328	1310	ug/kg	4.0					
Fluoranthene	U	ND	262	1310	ug/kg	4.0					
Fluorene	U	ND	446	1310	ug/kg	4.0					
Indeno(1,2,3-c,d)pyrene	U	ND	315	1310	ug/kg	4.0					
Naphthalene	U	ND	617	1310	ug/kg	4.0					
Phenanthrene	U	ND	236	1310	ug/kg	4.0					
Pyrene	U	ND	289	1310	ug/kg	4.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds AEJ 05/20/99 1700 149649 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	65.2	(44.7 - 110.)
Nitrobenzene-d5	M610	56.0	(42.4 - 107.)
Terphenyl-d14	M610	80.6	(45.5 - 104.)

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 21, 1999

Sample ID : 99SPORT0191-1

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

NWC00197 9905 74%

CHAIN OF CUSTODY RECORD

Page 1 of 1

General Engineering Laboratories, Inc.
2040 Savage Road
Charleston, South Carolina 29407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Client Name/Facility Name: NTC Orlando

Collected by/Company: ENV DET CHASN

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	PAH 8270	Remarks
-01 92Sport0191-1	5/19/99	1500		X		X	1																X	SA42S001 site against Bldg. 2056

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

40369

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
[signature]	5/19/99	1700	[signature]				
Relinquished by:	Date:	Time:	Received by lab by:	Date:	Time:	Remarks:	
			[signature]	5/20/99	930		

White = sample collector Yellow = file Pink = with report

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 05, 1999

Sample ID : 99SPORT0161-1
Lab ID : 9904953-01
Matrix : Soil
Date Collected : 04/29/99
Date Received : 04/30/99
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 18 items											
-Methylnaphthalene	U	ND	6.66	33.3	ug/kg	1.0	JPA	05/05/99	0906	148065	1
2-Methylnaphthalene	U	ND	6.66	33.3	ug/kg	1.0					
Acenaphthene	U	ND	6.66	33.3	ug/kg	1.0					
Acenaphthylene	U	ND	6.66	33.3	ug/kg	1.0					
Anthracene	U	ND	6.66	33.3	ug/kg	1.0					
Benzo(a)anthracene	U	ND	6.66	33.3	ug/kg	1.0					
Benzo(a)pyrene	U	ND	6.66	33.3	ug/kg	1.0					
Benzo(b)fluoranthene	J	20.4	6.66	33.3	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	6.66	33.3	ug/kg	1.0					
Benzo(k)fluoranthene	J	18.1	6.66	33.3	ug/kg	1.0					
Chrysene	J	18.1	6.66	33.3	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	26.6	33.3	ug/kg	1.0					
Fluoranthene	J	17.2	6.66	33.3	ug/kg	1.0					
Fluorene	U	ND	6.66	33.3	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	23.3	33.3	ug/kg	1.0					
Naphthalene	U	ND	6.66	33.3	ug/kg	1.0					
Phenanthrene	U	ND	6.66	33.3	ug/kg	1.0					
Pyrene	J	18.6	6.66	33.3	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds CPU 05/04/99 1800 148065 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
-Fluorobiphenyl	M610-5972	48.4	(44.7 - 110.)

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 05, 1999

Sample ID : 99SPORT0161-1

Surrogate Recovery	Test	Percent%	Acceptable Limits
Nitrobenzene-d5	M610-5972	47.4	(42.4 - 107.)
p-Terphenyl-d14	M610-5972	84.3	(45.5 - 104.)

M = Method	Method-Description
M 1	EPA 8270
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager. Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9904953-01

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 05, 1999

Sample ID : 99SPORT0161-2
Lab ID : 9904953-02
Matrix : Soil
Date Collected : 04/29/99
Date Received : 04/30/99
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 18 items											
1-Methylnaphthalene	U	ND	6.66	33.3	ug/kg	1.0	JPA	05/04/99	1438	148065	1
2-Methylnaphthalene	U	ND	6.66	33.3	ug/kg	1.0					
Acenaphthene	U	ND	6.66	33.3	ug/kg	1.0					
Acenaphthylene	U	ND	6.66	33.3	ug/kg	1.0					
Anthracene	U	ND	6.66	33.3	ug/kg	1.0					
Benzo(a)anthracene	U	ND	6.66	33.3	ug/kg	1.0					
Benzo(a)pyrene	U	ND	6.66	33.3	ug/kg	1.0					
Benzo(b)fluoranthene	J	24.7	6.66	33.3	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	6.66	33.3	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	6.66	33.3	ug/kg	1.0					
Chrysene	U	ND	6.66	33.3	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	26.6	33.3	ug/kg	1.0					
Fluoranthene	J	18.2	6.66	33.3	ug/kg	1.0					
Fluorene	U	ND	6.66	33.3	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	23.3	33.3	ug/kg	1.0					
Naphthalene	U	ND	6.66	33.3	ug/kg	1.0					
Phenanthrene	U	ND	6.66	33.3	ug/kg	1.0					
Pyrene	J	18.9	6.66	33.3	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds RDH 05/03/99 0800 148065 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610-5972	54.4	(44.7 - 110.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9904953-02

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 05, 1999

Sample ID : 99SPORT0161-2

Surrogate Recovery	Test	Percent %	Acceptable Limits
Nitrobenzene-d5	M610-5972	52.9	(42.4 - 107.)
p-Terphenyl-d14	M610-5972	77.6	(45.5 - 104.)

M = Method	Method-Description
M 1	EPA 8270
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager. Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9904953-02

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 05, 1999

Sample ID	: 99SPORT0161-3
Lab ID	: 9904953-03
Matrix	: Soil
Date Collected	: 04/29/99
Date Received	: 04/30/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 18 items											
-Methylnaphthalene	U	ND	6.66	33.3	ug/kg	1.0	JPA	05/04/99	1505	148065	1
2-Methylnaphthalene	U	ND	6.66	33.3	ug/kg	1.0					
Acenaphthene	U	ND	6.66	33.3	ug/kg	1.0					
Acenaphthylene	U	ND	6.66	33.3	ug/kg	1.0					
Anthracene	U	ND	6.66	33.3	ug/kg	1.0					
Benzo(a)anthracene	U	ND	6.66	33.3	ug/kg	1.0					
Benzo(a)pyrene	U	ND	6.66	33.3	ug/kg	1.0					
Benzo(b)fluoranthene	J	21.1	6.66	33.3	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	6.66	33.3	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	6.66	33.3	ug/kg	1.0					
Chrysene	U	ND	6.66	33.3	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	26.6	33.3	ug/kg	1.0					
Fluoranthene	U	ND	6.66	33.3	ug/kg	1.0					
Fluorene	U	ND	6.66	33.3	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	23.3	33.3	ug/kg	1.0					
Naphthalene	U	ND	6.66	33.3	ug/kg	1.0					
Phenanthrene	U	ND	6.66	33.3	ug/kg	1.0					
Pyrene	U	ND	6.66	33.3	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds RDH 05/03/99 0800 148065 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
-Fluorobiphenyl	M610-5972	62.8	(44.7 - 110.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9904953-03

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 05, 1999

Sample ID : 99SPORT0161-3

Surrogate Recovery	Test	Percent%	Acceptable Limits
Nitrobenzene-d5	M610-5972	61.6	(42.4 - 107.)
p-Terphenyl-d14	M610-5972	79.7	(45.5 - 104.)

M = Method	Method-Description
M 1	EPA 8270
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9904953-03

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 05, 1999

Sample ID	: 99SPORT0161-4
Lab ID	: 9904953-04
Matrix	: Soil
Date Collected	: 04/29/99
Date Received	: 04/30/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 18 items											
-Methylnaphthalene	U	ND	6.66	33.3	ug/kg	1.0	JPA	05/04/99	1533	148065	1
2-Methylnaphthalene	U	ND	6.66	33.3	ug/kg	1.0					
Acenaphthene	U	ND	6.66	33.3	ug/kg	1.0					
Acenaphthylene	U	ND	6.66	33.3	ug/kg	1.0					
Anthracene	U	ND	6.66	33.3	ug/kg	1.0					
Benzo(a)anthracene	U	ND	6.66	33.3	ug/kg	1.0					
Benzo(a)pyrene	U	ND	6.66	33.3	ug/kg	1.0					
Benzo(b)fluoranthene	J	27.9	6.66	33.3	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	6.66	33.3	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	6.66	33.3	ug/kg	1.0					
Chrysene	J	18.7	6.66	33.3	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	26.6	33.3	ug/kg	1.0					
Fluoranthene	U	ND	6.66	33.3	ug/kg	1.0					
Fluorene	U	ND	6.66	33.3	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	23.3	33.3	ug/kg	1.0					
Naphthalene	U	ND	6.66	33.3	ug/kg	1.0					
Phenanthrene	U	ND	6.66	33.3	ug/kg	1.0					
Pyrene	J	18.8	6.66	33.3	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds RDH 05/03/99 0800 148065 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
-Fluorobiphenyl	M610-5972	61.4	(44.7 - 110.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9904953-04

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 05, 1999

Sample ID : 99SPORT0161-4

Surrogate Recovery	Test	Percent%	Acceptable Limits
Nitrobenzene-d5	M610-5972	60.4	(42.4 - 107.)
p-Terphenyl-d14	M610-5972	74.6	(45.5 - 104.)

M = Method	Method-Description
M 1	EPA 8270
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9904953-04

— 3-DAY TURN AROUND —

General Engineering Lab[illegible]s, Inc.
2040 Savage Road
Charleston, South Carolin[illegible]07
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

CHAIN OF CUSTODY RECORD

Client Name/Facility Name: NTC Orlando SA42437

Collected by/Company: ENV DET CHASN

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide 8081	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	PAH 8310	Remarks
99Sport 0161-1	4/29/99	1300		X		X	1																X	SA42S002 Location
99Sport 0161-2	4/29/99	1310		X		X	1																X	1
99Sport 0161-3	4/29/99	1325		X		X	1																X	
99Sport 0161-4	4/29/99	1335		X		X	1																X	
99Sport 0161-5	4/29/99	1400		X		X	1																X	SA42S001 Location
99Sport 0161-6	4/29/99	1409		X		X	1																X	
99Sport 0161-7	4/29/99	1420		X		X	1																X	
99Sport 0161-8	4/29/99	1430		X		X	1																X	
99Sport 0161-9	4/29/99	1435	X				2																X	Field Blank SA-42S001 Location SA42F-0161-9
99Sport 0161-10	4/29/99	1450		X		X	1								X									SA-37 Location
99Sport 0161-11	4/29/99	1500		X		X	1								X									
99Sport 0161-12	4/29/99	1509		X		X	1								X									
99Sport 0161-13	4/29/99	1517		X		X	1								X									

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
K W Cope	4/29/99	1800 ~~1500~~	RWC Michael P. Schuler	Michael P. Schuler	4/30/99	1145	
Relinquished by:	Date:	Time:	Received by lab by:	Date:	Time:	Remarks:	
				4-30-99	1145		

White = [illegible] collector Yellow = file Pink = with report

— 3 DAY TU AROUND —

CHAIN OF CUSTODY RECORD

General Engineering Lab[illegible]es, Inc.
2040 Savage Road
Charleston, South Carolina [illegible]07
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Page 2 of 2

Client Name/Facility Name: NTC ORLando SA-42+37

Collected by/Company: ENV DET CHASN

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide 8081	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Remarks
99Sport0161-14	4/29/99	1525		X	X		1								X								SA-37 LOCATION

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
K W Cope	4/29/99	1800	Michael P. Schulz	Michael P. Schulz	4/30/99	1145	
Relinquished by:	Date:	Time:	Received by lab by:	Date:	Time:	Remarks:	
			T. G. Cook	4-30-99	1145		

White = [illegible] collector Yellow = file Pink = with report

WASTE CHARACTERIZATION

RESULTS OF ANALYSIS

TCLP METALS	METHOD	SA-42002	SA-42001	Units
TCLP Arsenic	1311/7060	0.050 U	0.050 U	mg/L
Date Analyzed		04/23/99	04/23/99	
TCLP Barium	1311/7080	2.0 U	2.0 U	mg/L
Date Analyzed		04/23/99	04/23/99	
TCLP Cadmium	1311/7130	0.10 U	0.10 U	mg/L
Date Analyzed		04/23/99	04/23/99	
TCLP Chromium	1311/7190	0.50 U	0.50 U	mg/L
Date Analyzed		04/23/99	04/23/99	
P Lead	1311/7420	0.50 U	0.50 U	mg/L
Date Analyzed		04/23/99	04/23/99	
TCLP Mercury	1311/7470	0.0050 U	0.0050 U	mg/L
Date Analyzed		04/26/99	04/26/99	
TCLP Selenium	1311/7740	0.050 U	0.050 U	mg/L
Date Analyzed		04/25/99	04/25/99	
TCLP Silver	1311/7760	0.20 U	0.20 U	mg/L
Date Analyzed		04/23/99	04/23/99	

U: Compound was analyzed for but not detected to the level shown.

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
NTC Orlando		

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE	FAX
FL	R. Cope	496-2173	869-5468

CLIENT NAME	CLIENT PROJECT MANAGER
ENV DET CHASN	Ross James Inn

CLIENT ADDRESS (CITY, STATE, ZIP)
1899 N. Hobson Ave N. Charleston, S.C 29405

MATRIX TYPE: SURFACE WATER | GROUND WATER | WASTEWATER | DRINKING WATER | SOIL/SOLID/SEDIMENT | NONAQUEOUS LIQUID (oil, solvent, etc.) | AIR | SLUDGE | OTHER

REQUIRED ANALYSIS: TCLP Metals | TCLP Pesticides

PAGE | OF

☐ STANDARD REPORT DELIVERY

☐ EXPEDITED REPORT DELIVERY (surcharge)

Date Due

SAMPLE STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	SOIL/SOLID/SEDIMENT	TCLP Metals	TCLP Pesticides	REMARKS
1	4/20/99	1450	X		SA-35009	✓	X1		
2	4/20/99	1505	X		SA 35013	✓	X1		
3	4/20/99	1540	X		SA-35015	✓	X1		
4	4/20/99	1640		X	SA-80001	✓	1	X- TCLP Pesticides Requested	5 locations Area A
5	4/20/99	1700		X	SA-80002	✓	1	X on 4-28-99.	5 Locations Area B
6	4/20/99	1720		X	SA-80003	✓	1	X	5 Locations Area C
7	4/21/99	1010	X		SA-42002	✓	1		
8	4/21/99	1022	X		SA-42001	✓	1		
9	4/21/99	1120	X		SA-23005	✓	1		McCoy Annex
10	4/21/99	1145		X	SA-18008	✓		1	" 5 locations
11	4/21/99	1201		X	SA-17035	✓		1	" 5 locations
12									
13									
14									

SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	4/21/99	1240	K W Cope					
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	4/21/99	1240	David J. Yancy					
RECEIVED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS
Kevin C. ☐ Jacksonville ☒ Orlando	4/21/99	12:40PM	☐ YES ☒ NO	OR63	

OPERABLE UNIT 3

1. INTRODUCTION

1.1 OPERABLE UNIT 3

Operable Unit (OU) 3 is located on the Main Base, Naval Training Center, Orlando (Figure 1). OU 3 consists of SA 8 and SA 9. SA 8 was the location of the greenskeeper's storage area, which consists of Building 2134, several smaller storage sheds, and numerous concrete pads (Figure 1). Information for SA 9 can be found in Section 6.

STUDY AREA 8

1.2 OU 3 SA 8 INTERIM REMEDIAL ACTION

SOUTHDIV tasked the DET to perform an IRA for this site. The objective of the IRA was to excavate and dispose of soil contaminated with pesticides and/or arsenic. The excavation was to continue until the sampling program indicated with reasonable confidence that the concentrations of contaminants at the site were less than residential limits specified by FDEP SCG, dated 30 April 1998 or USEPA Region III, dated 01 October 1998, whichever specifies the stricter criteria.

1.2.1 OU 3 SA 8 Interim Remedial Action Execution Summary

The execution of this IRA is discussed in the following sections:

1.2.1.1 OU3 SA 8 Sample Point 08S044

The execution of this IRA consisted of excavating an area approximately 5′ x 8′ to a depth of 2′ (Figure 2). Soil removed from the site was characterized as hazardous and was sent to a permitted Treatment, Storage, and Disposal Facility (TSDF). A Confirmation sample was collected from each sidewall testing for pesticides. The results of these samples were all less than the RGOs.

1.2.1.2 OU3 SA 8 Sample Point 08S031

The execution of this IRA consisted of excavating an area approximately 16′ x 31′ to a depth of 2′ (Figure 3). Soil removed from the site was characterized as hazardous and was sent to a permitted Treatment, Storage, and Disposal Facility (TSDF). A Confirmation sample was collected from each sidewall testing for pesticides. The results of these samples were all less than the RGOs.

1.2.1.3 OU3 SA 8 Arsenic Areas

The execution of this IRA consisted of excavating an area approximately 150′ x 290′ to a depth of 2′ (Figure 4). Soil removed from the site was characterized as non-hazardous and was sent to a Subtitle D landfill. Confirmation samples were collected from each sidewall testing for arsenic. The results of these samples were all less than the RGOs or were less than three times the RGOs.

2.0 INTERIM REMEDIAL ACTION EXCECUTION

2.1 ACTIONS PERFORMED BY THE INTERIM REMEDIAL ACTION WORK PLAN

Actions performed are listed below.

- Collection of waste characterization samples
- Installation of approximately 400′ of silt fencing for erosion control
- Removal and disposal of 50 square feet of non-friable transite shingles
- Demolition and disposal of Building 2143
- Removal and disposal of concrete, asphalt, trees/shrubs/ and fencing
- Excavation and disposal of approximately 2,886 tons of non-hazardous waste
- Excavation and disposal of approximately 63 tons of hazardous waste
- Collection of confirmatory samples along each sidewall for analysis of pesticides and/or arsenic
- Restoration of site by backfilling, grading to surrounding area, and hydroseeding

2.2 OBSERVATIONS NOTES

2.2.1 Soil Conditions

From ground surface to the bottom of the excavation the soil was dark silty sand.

2.3 PLAN MODIFICATIONS AND JUSTIFICATION

- The OPT added three 5′ x 5′ x 2′ areas, an 25′ x 40′ x 2′ area, and a 50′ x 50′ x 2′ area to the original scope of work to be conducted at the site for arsenic contamination.

3.0 INTERIM REMEDIAL ACTION OUTCOME

3.1 SITE CONDITIONS FOLLOWING COMPLETION OF WORK

Following completion of work, the DET had removed 63 tons of pesticide contaminated soil and 2,886 tons of arsenic contaminated soil. The site was backfilled, graded to surrounding area and hydroseeded. Site photographs are included in Appendix H1.

4.0 SAMPLING

4.1 CONFIRMATION SAMPLING

Upon completion of work a confirmation sample was taken on each sidewall testing for arsenic and/or pesticides (Figures 2, 3, & 4). See appendix H2 for sampling documentation.

4.2 WASTE CHARACTERIZATION SAMPLING

Waste characterization samples SA8001, 2, and 3 were taken and analyzed for TCLP metals and TCLP pesticides and sample 99SPORT0140-1 was taken and analyzed for TCLP metals.

5.0 WASTE GENERATION

5.1 Hazardous Waste

A total of 63 tons of hazardous pesticide contaminated soil was disposed of to a permitted treatment, storage and disposal facility. Waste Manifests are in appendix H3.

5.2 Non-Hazardous Waste

A total of 2,886 tons of non-hazardous arsenic contaminated soil was disposed of to a permitted treatment, storage and disposal facility. Waste Manifests are in appendix H3.

STUDY AREA 9

6.1 OPERABLE UNIT 3

Operable Unit (OU) 3 is located on the Main Base, Naval Training Center, Orlando (Figure 5). OU 3 consists of SA 8 and SA 9. SA 9 was the location of a pesticide and herbicide storage building used by the Air Force and Navy between the 1950's to 1972 (figure 1). Information for SA 8 can be found in Section 1.

6.2 OU 3 SA 9 INTERIM REMEDIAL ACTION

SOUTHDIV tasked the DET to perform an IRA for this site. The objective of the IRA was to excavate and dispose of soil contaminated with pesticides. The excavation was to continue until the sampling program indicated with reasonable confidence that the concentrations of contaminants at the site were less than residential limits specified by FDEP SCG, dated 30 April 1998 or USEPA Region III, dated 01 October 1998, whichever specifies the stricter criteria.

6.2.1 OU 3 SA 9 Interim Remedial Action Execution Summary

The execution of this IRA consisted of excavating an area approximately 128′ x 3′ to a depth of 2′ (Figure 6). Soil removed from the site was characterized as hazardous and was sent to a permitted Treatment, Storage, and Disposal Facility (TSDF). A Confirmation sample was collected from each sidewall testing for pesticides. The results of these samples were all less than the RGOs.

7.0 INTERIM REMEDIAL ACTION EXCECUTION

7.1 ACTIONS PERFORMED BY THE INTERIM REMEDIAL ACTION WORK PLAN

Actions performed are listed below

- Installation of approximately 75′ of silt fencing for erosion control
- Removal and disposal of trees and shrubs
- Excavation and disposal of an area approximately 128′ x 3′ to a depth of 2′
- Collection of confirmatory samples along each sidewall for analysis of pesticides and/or arsenic
- Restoration of site by backfilling, grading to surrounding area, and hydroseeding

7.2 OBSERVATIONS NOTES

7.2.1 Soil Conditions

From ground surface to the bottom of the excavation the soil was dark silty sand.

7.3 PLAN MODIFICATIONS AND JUSTIFICATION

- The OPT instructed the DET not to excavate sample point 09S009 for arsenic contamination.

8.0 INTERIM REMEDIAL ACTION OUTCOME

8.1 SITE CONDITIONS FOLLOWING COMPLETION OF WORK

Following completion of work, the DET had removed 32 tons of pesticide contaminated soil. The site was backfilled, graded to surrounding area and hydroseeded. Site photographs are included in Appendix H1.

9.0 SAMPLING

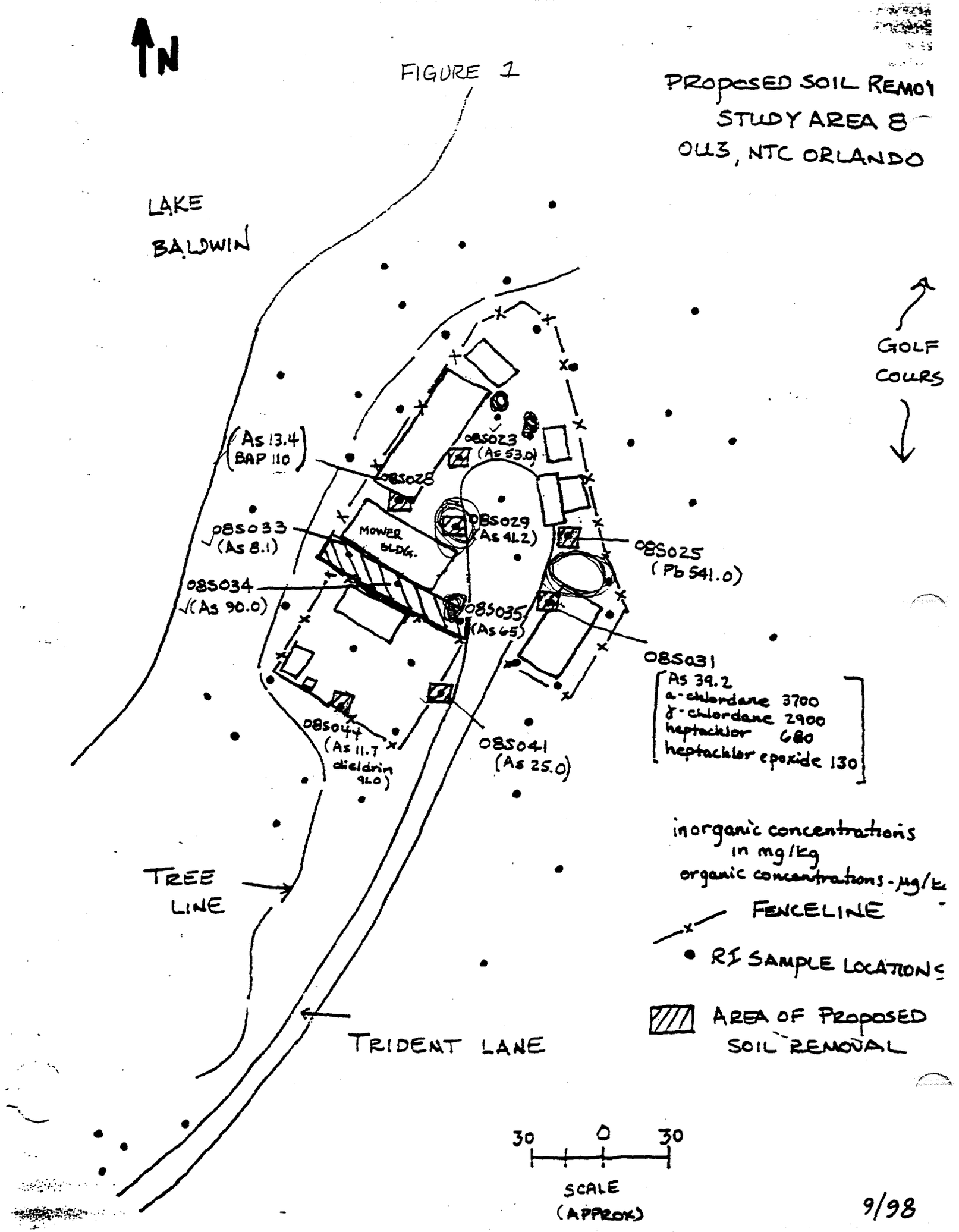
9.1 CONFIRMATION SAMPLING

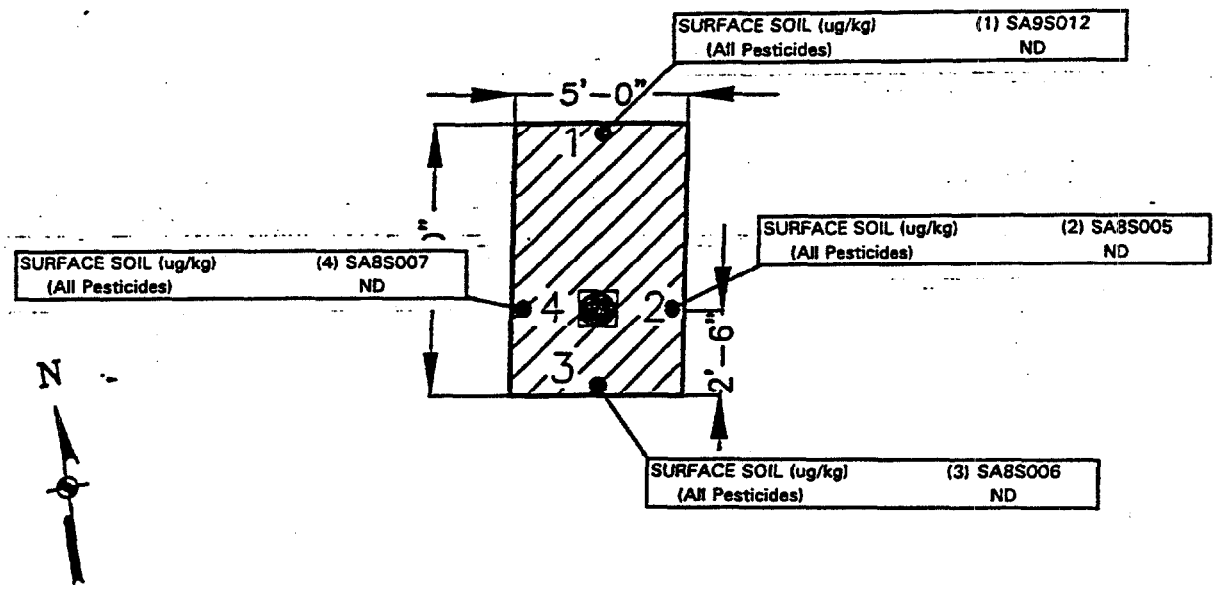
Upon completion of work a confirmation sample was taken on each sidewall testing for arsenic and/or pesticides (Figure 6). See appendix H2 for sampling documentation.

10.0 WASTE GENERATION

10.1 Hazardous Waste

A total of 32 tons of hazardous pesticide contaminated soil was disposed of to a permitted treatment, storage and disposal facility. Waste Manifests are in appendix H3.


N
FIGURE 1
PROPOSED SOIL REMOV
STUDY AREA 8 -
OU3, NTC ORLANDO
LAKE
BALDWIN
GOLF
COURS
(As 13.4
BAP 110)
085023
(As 53.0)
085028
085033
(As 8.1)
MOWER
BLDG.
085029
(As 41.2)
085025
(Pb 541.0)
085034
(As 90.0)
085035
(As 65)
085031
As 39.2
α-chlordane 3700
γ-chlordane 2900
heptachlor 680
heptachlor epoxide 130
085044
(As 11.7
dieldrin
9.40)
085041
(As 25.0)
TREE
LINE
TRIDENT LANE
inorganic concentrations
in mg/kg
organic concentrations - µg/k
FENCELINE
RI SAMPLE LOCATIONS
AREA OF PROPOSED
SOIL REMOVAL
30 0 30
SCALE
(APPROX)
9/98



LEGEND

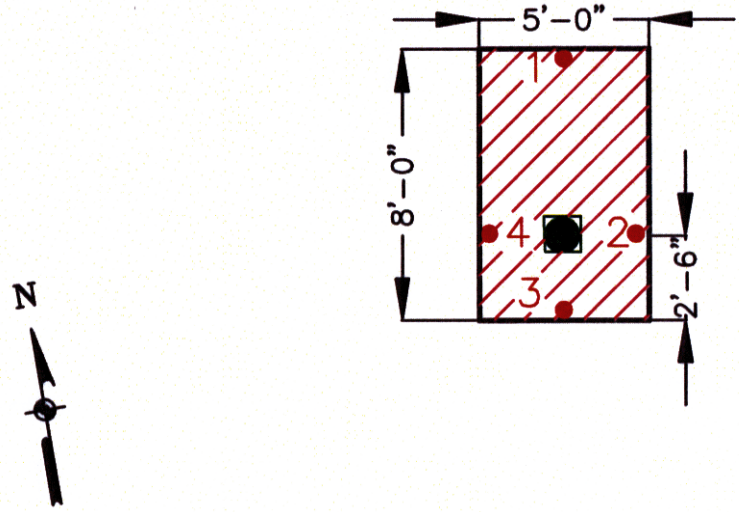
1 ●	CONFIRMATORY SAMPLE ID SA9S012
2 ●	CONFIRMATORY SAMPLE ID SA8S005
3 ●	CONFIRMATORY SAMPLE ID SA8S006
4 ●	CONFIRMATORY SAMPLE ID SAS8007
■	SAMPLE POINT OBS044
▨	EXCAVATED TO 2 FEET DEEP

ENVIRONMENTAL DETACHMENT CHARLESTON
1599 NORTH HOBSON AVENUE – BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 2
NAVAL TRAINING CENTER ORLANDO OU5 SA 8
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS

DATE:	PREPARED BY:	REV
25 AUGUST 1999	A. J. MOYER	–

SCALE: NONE | SHEET: –



LEGEND

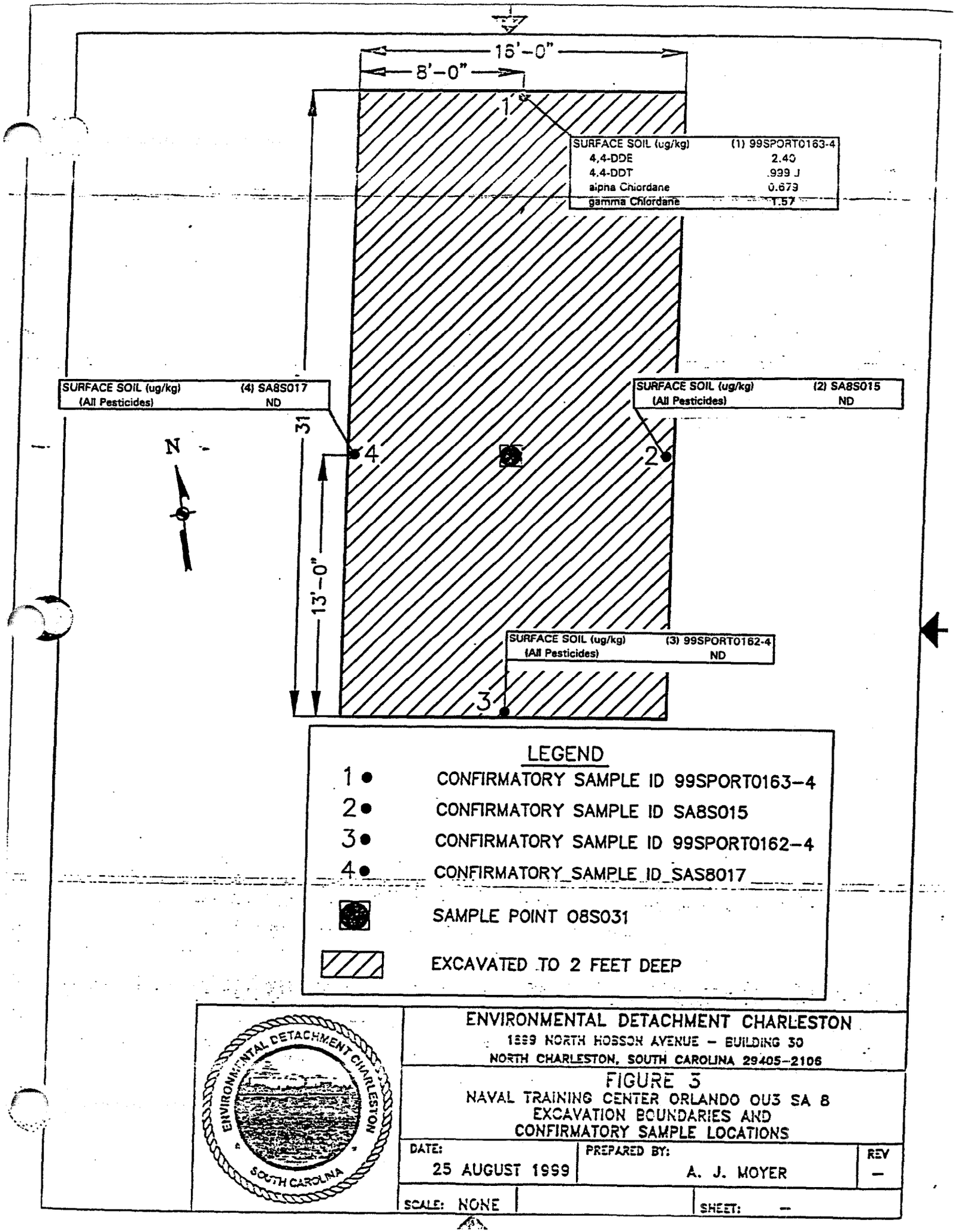
1 ●	CONFIRMATORY SAMPLE ID SA9S012
2 ●	CONFIRMATORY SAMPLE ID SA8S005
3 ●	CONFIRMATORY SAMPLE ID SA8S006
4 ●	CONFIRMATORY SAMPLE ID SAS8007
●	SAMPLE POINT 08S044
▨	EXCAVATED TO 2 FEET DEEP

ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE – BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 2
NAVAL TRAINING CENTER ORLANDO OU3 SA 8 EXCAVATION BOUNDARIES AND CONFIRMATORY SAMPLE LOCATIONS

DATE:	PREPARED BY:	REV
25 AUGUST 1999	A. J. MOYER	–

SCALE: NONE | SHEET: –

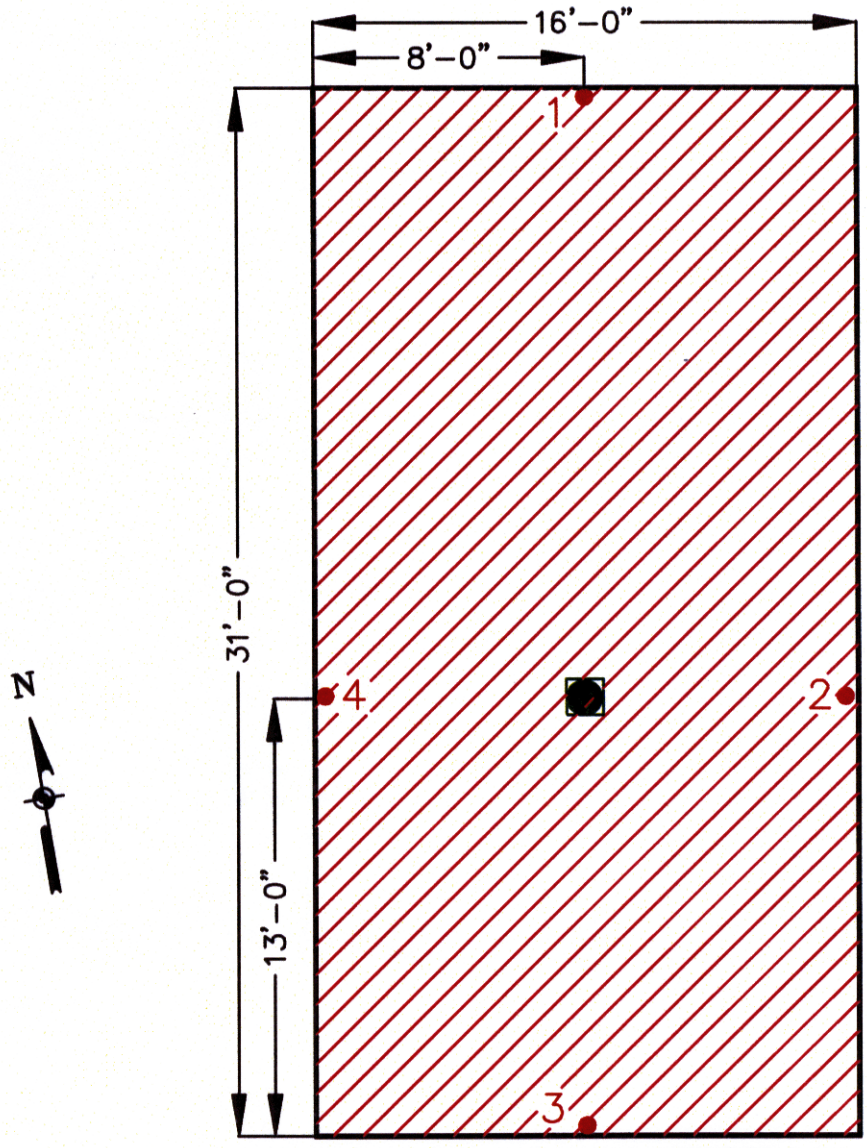


ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE – BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 3
NAVAL TRAINING CENTER ORLANDO OU3 SA 8
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS

DATE:	PREPARED BY:	REV
25 AUGUST 1999	A. J. MOYER	–

SCALE: NONE SHEET: –



LEGEND

1 ●	CONFIRMATORY SAMPLE ID 99SPORT0163-4
2 ●	CONFIRMATORY SAMPLE ID SA8S015
3 ●	CONFIRMATORY SAMPLE ID 99SPORT0162-4
4 ●	CONFIRMATORY SAMPLE ID SAS8017
●	SAMPLE POINT 08S031
▨	EXCAVATED TO 2 FEET DEEP

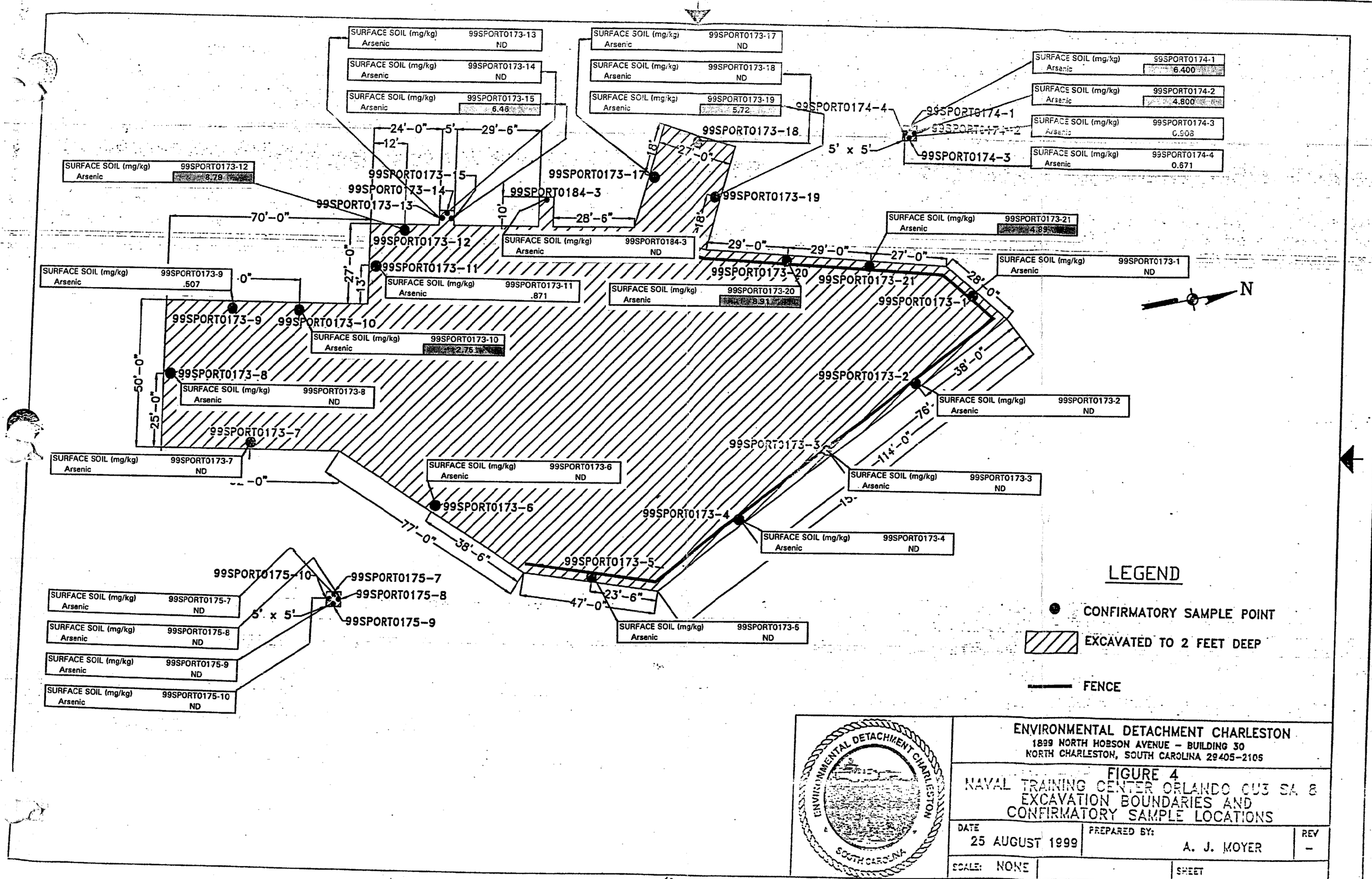
ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE – BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 3
NAVAL TRAINING CENTER ORLANDO OU3 SA 8
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS

DATE:	PREPARED BY:	REV
25 AUGUST 1999	A. J. MOYER	–

SCALE: NONE | SHEET: –

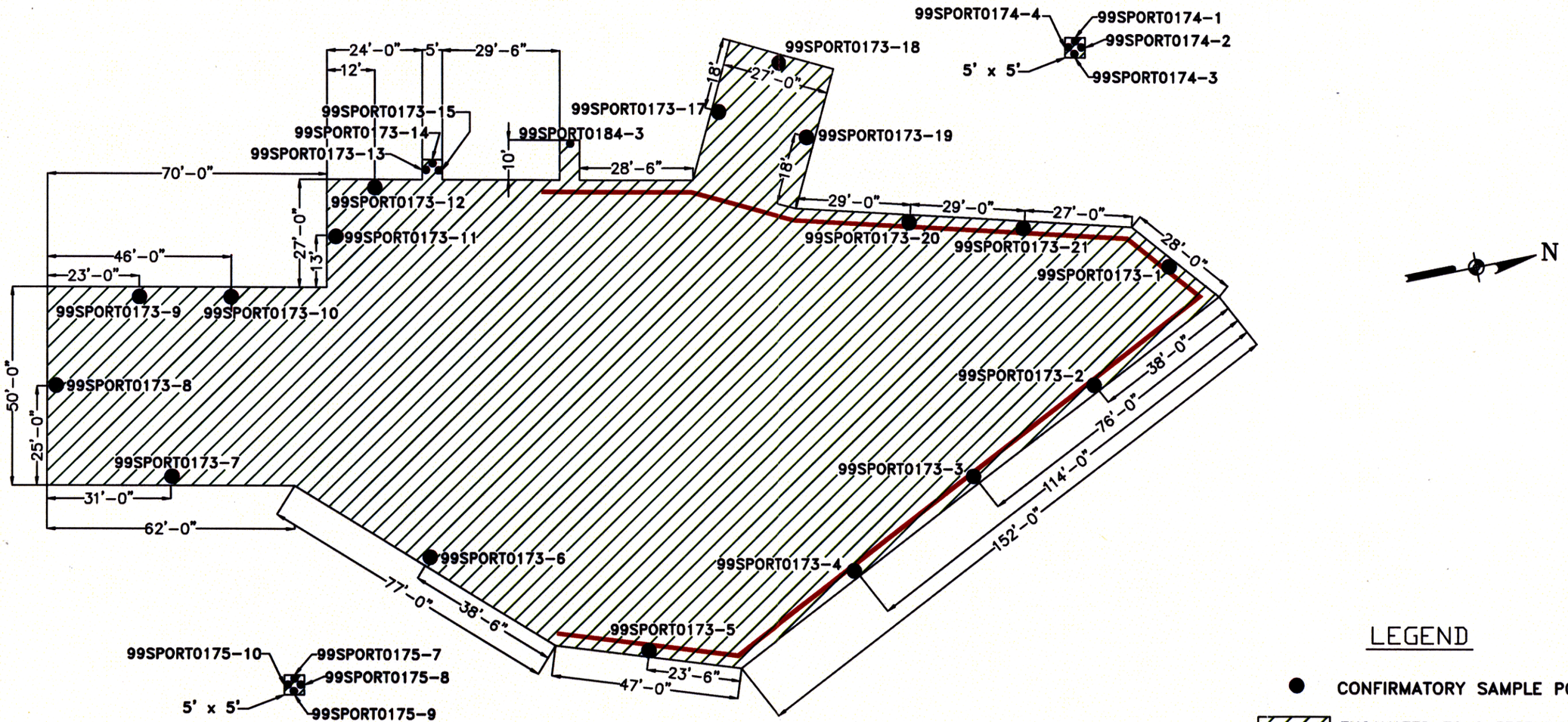
00149F18Y



ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE – BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2105

FIGURE 4
NAVAL TRAINING CENTER ORLANDO OU3 SA 8 EXCAVATION BOUNDARIES AND CONFIRMATORY SAMPLE LOCATIONS

DATE	PREPARED BY:	REV
25 AUGUST 1999	A. J. MOYER	–
SCALE: NONE		SHEET



LEGEND

- CONFIRMATORY SAMPLE POINT
- EXCAVATED TO 2 FEET DEEP
- FENCE

ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE – BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 4
NAVAL TRAINING CENTER ORLANDO OU3 SA 8 EXCAVATION BOUNDARIES AND CONFIRMATORY SAMPLE LOCATIONS

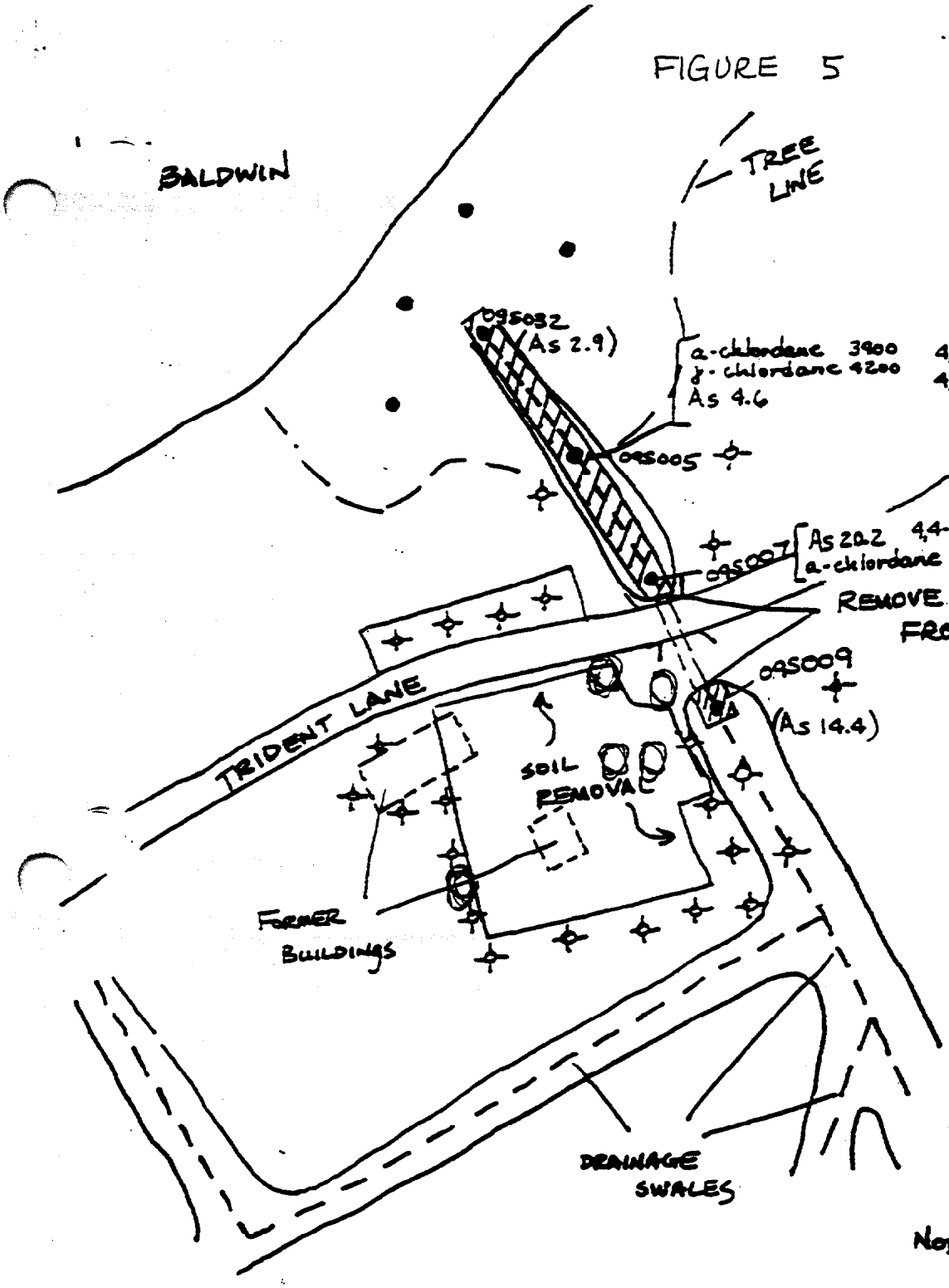
DATE	PREPARED BY:	REV
25 AUGUST 1999	A. J. MOYER	–

SCALE: NONE | SHEET

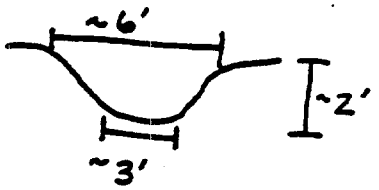
0049 E20Y

FIGURE 5

PROPOSED SOIL REMO
STUDY AREA S
OU3, NTC ORLAND



NOTE: APPROXIMATE DIMENSI
OF DRAINAGE SWALE



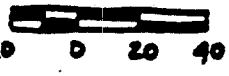
● SAMPLE LOCATIONS EXCEEDING CRITERIA

⊕ RI SAMPLE LOCATIONS BELOW SCREENING CRITERIA

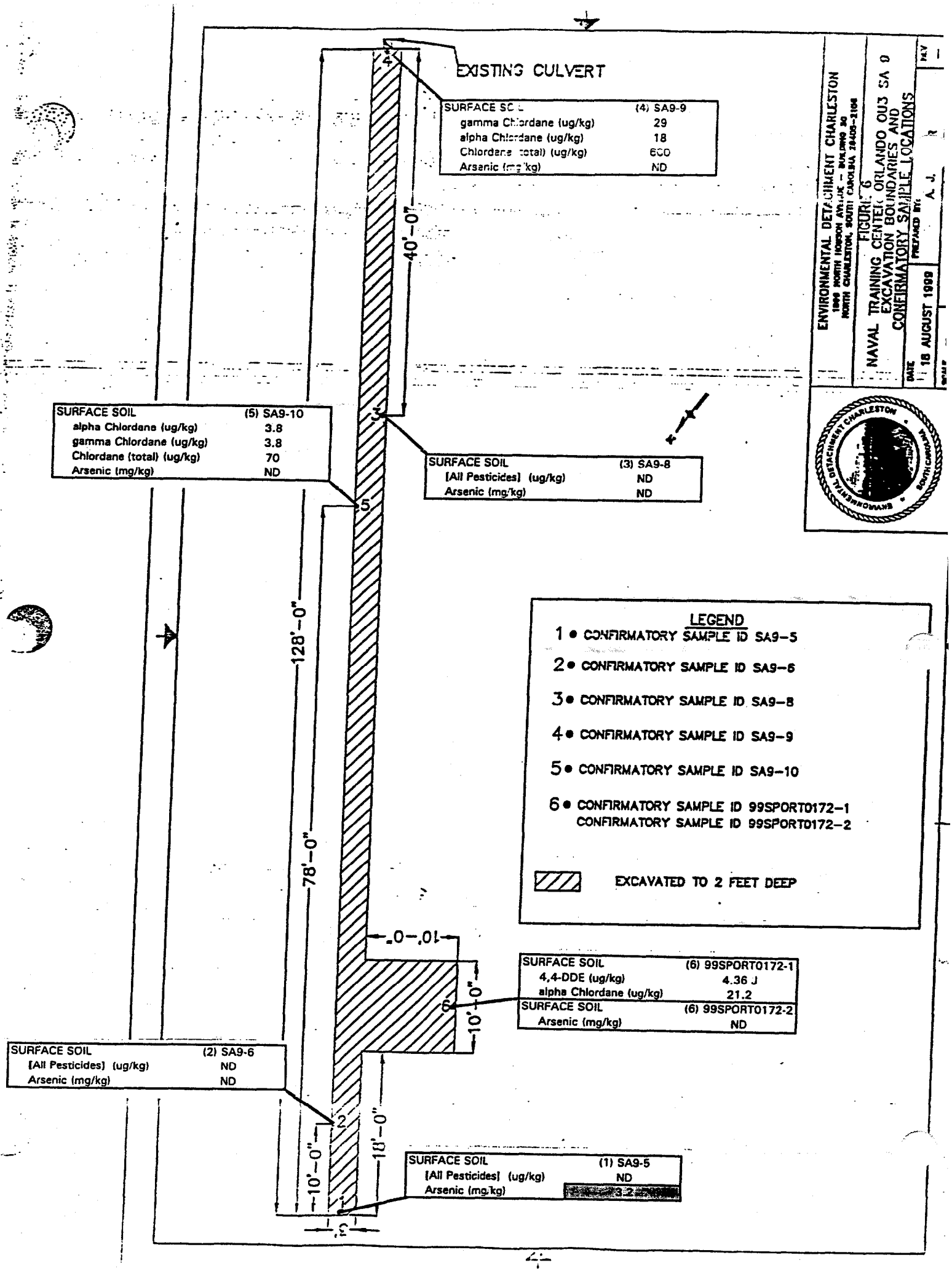
AREA OF PROPOSED SOIL REMOVAL

Inorganics - mg/kg
Organics - µg/kg

SCALE: 1 INCH = 60 FEET



9/98


EXISTING CULVERT
SURFACE SOIL (4) SA9-9
gamma Chlordane (ug/kg) 29
alpha Chlordane (ug/kg) 18
Chlordane (total) (ug/kg) 600
Arsenic (mg/kg) ND
SURFACE SOIL (5) SA9-10
alpha Chlordane (ug/kg) 3.8
gamma Chlordane (ug/kg) 3.8
Chlordane (total) (ug/kg) 70
Arsenic (mg/kg) ND
SURFACE SOIL (3) SA9-8
[All Pesticides] (ug/kg) ND
Arsenic (mg/kg) ND
SURFACE SOIL (6) 99SPORT0172-1
4,4-DDE (ug/kg) 4.36 J
alpha Chlordane (ug/kg) 21.2
SURFACE SOIL (6) 99SPORT0172-2
Arsenic (mg/kg) ND
SURFACE SOIL (2) SA9-6
[All Pesticides] (ug/kg) ND
Arsenic (mg/kg) ND
SURFACE SOIL (1) SA9-5
[All Pesticides] (ug/kg) ND
Arsenic (mg/kg) 3.2
40'-0"
128'-0"
78'-0"
10'-0"
10'-0"
18'-0"
10'-0"
LEGEND
1 • CONFIRMATORY SAMPLE ID SA9-5
2 • CONFIRMATORY SAMPLE ID SA9-6
3 • CONFIRMATORY SAMPLE ID SA9-8
4 • CONFIRMATORY SAMPLE ID SA9-9
5 • CONFIRMATORY SAMPLE ID SA9-10
6 • CONFIRMATORY SAMPLE ID 99SPORT0172-1
CONFIRMATORY SAMPLE ID 99SPORT0172-2
EXCAVATED TO 2 FEET DEEP
ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE - BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106
FIGURE: 6
NAVAL TRAINING CENTER ORLANDO OU3 SA 9
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS
DATE 18 AUGUST 1999
PREPARED BY: A. J.
REV 1

ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE - BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29406-2106

FIGURE 6
NAVAL TRAINING CENTER ORLANDO OU3 SA 9
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS

REV	SHEET
-	-

PREPARED BY: A. J. MOYER

DATE: 18 AUGUST 1999

SCALE: -

ENVIRONMENTAL DETACHMENT CHARLESTON SOUTH CAROLINA

LEGEND

1 ● CONFIRMATORY SAMPLE ID SA9-5

2 ● CONFIRMATORY SAMPLE ID SA9-6

3 ● CONFIRMATORY SAMPLE ID SA9-8

4 ● CONFIRMATORY SAMPLE ID SA9-9

5 ● CONFIRMATORY SAMPLE ID SA9-10

6 ● CONFIRMATORY SAMPLE ID 99SPORT0172-1
CONFIRMATORY SAMPLE ID 99SPORT0172-2

EXCAVATED TO 2 FEET DEEP

SA 9 BEFORE EXCAVATION

SA 9 DURING EXCAVATION

00449 FB22X

SA 9 AFTER BACKFILL

SA9 SILT FENCING

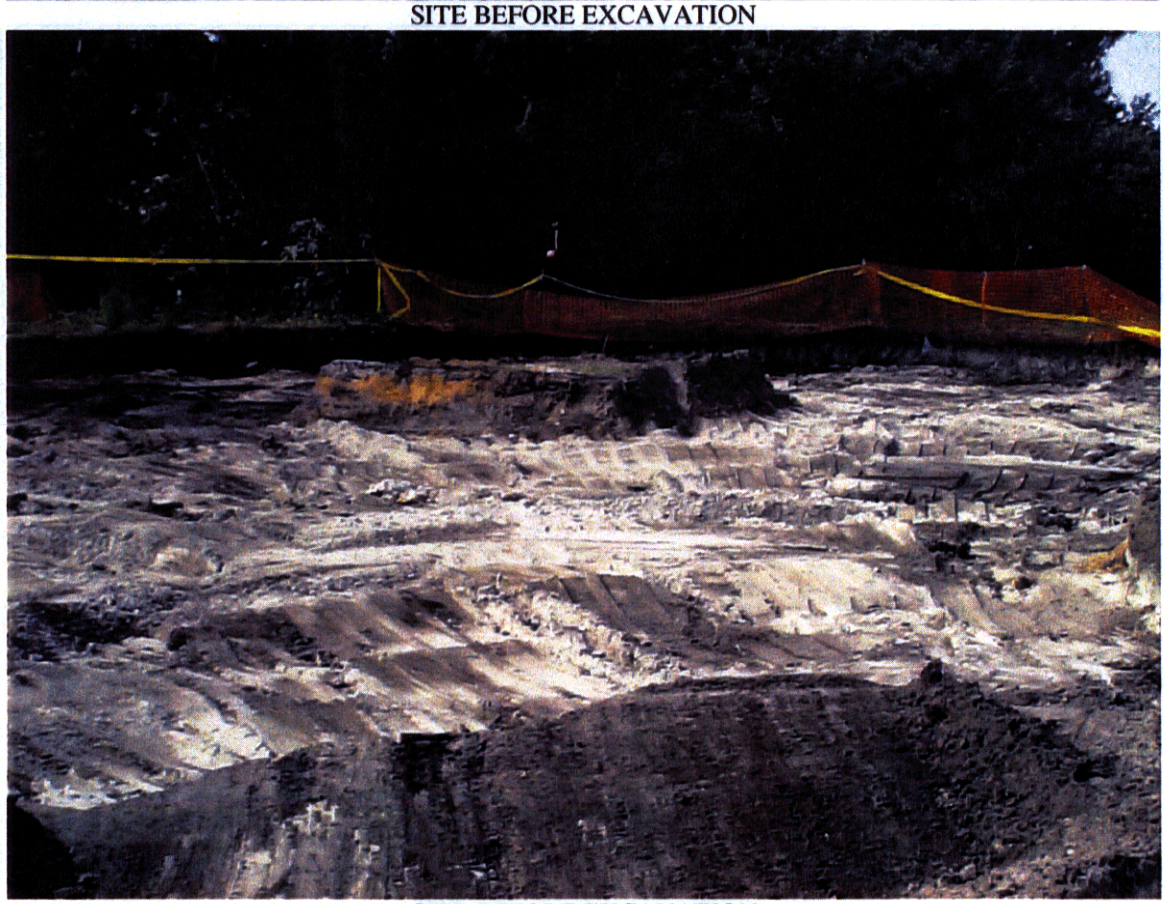
SA9 AFTER BACKFILL

SA9 ATER HYDROSEEDING

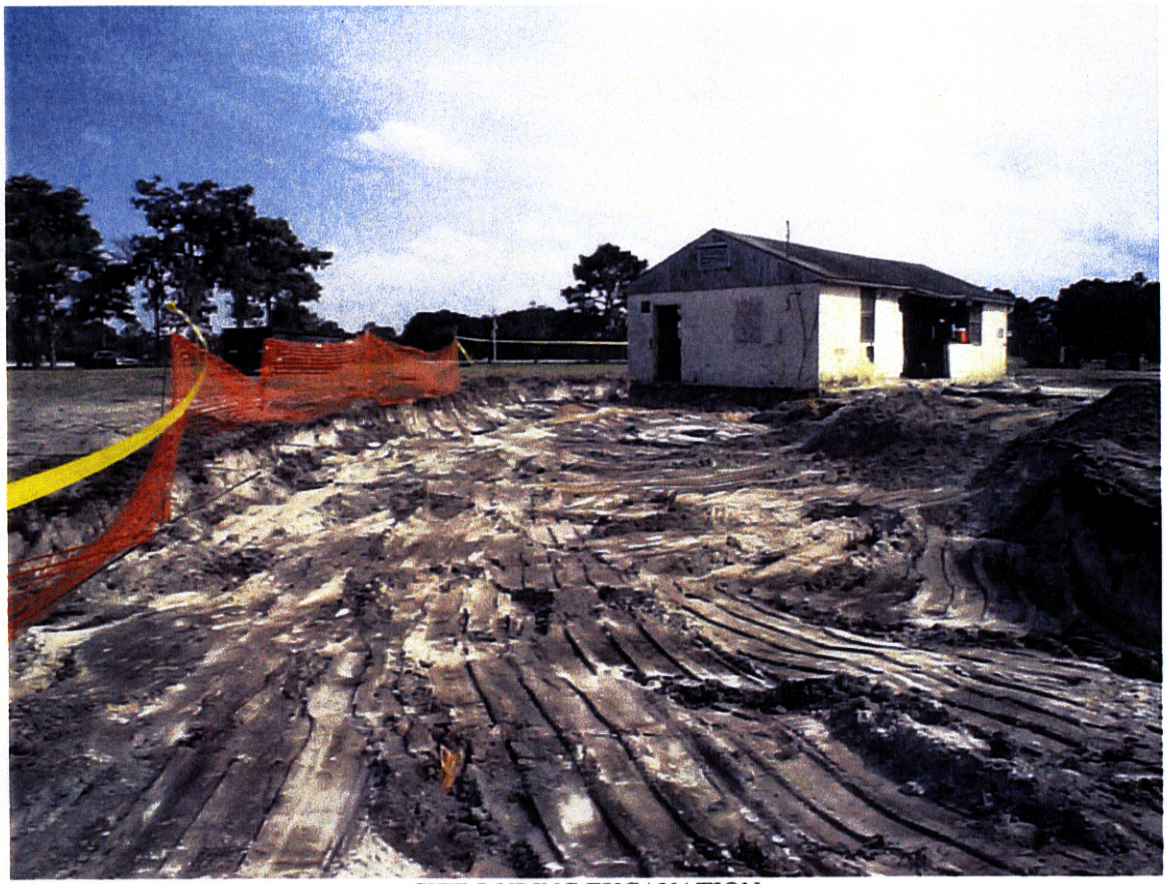
SITE BEFORE EXCAVATION

SITE BEFORE EXCAVATION

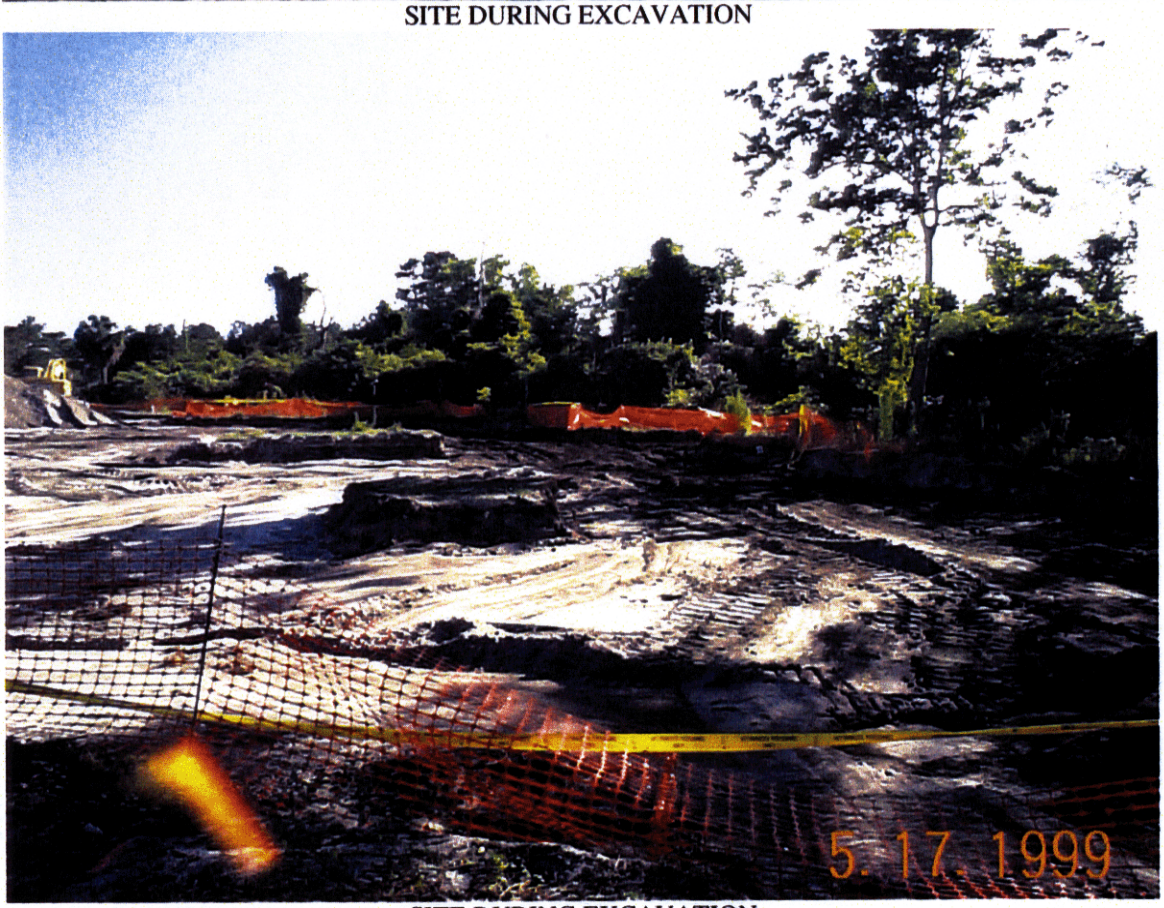
SITE BEFORE EXCAVATION



SITE BEFORE EXCAVATION



SITE DURING EXCAVATION



SITE DURING EXCAVATION

BUILDING DEMO

BUILDING DEMO

BACKFILLING SITE

BACKFILLING SITE

SITE AFTER BACKFILLING

SITE AFTER BACKFILLING

SITE AFTER HYDROSEEDED

CONFIRMATION SAMPLES

Environmental Conservation Laboratories
10207 General Drive
Orlando, Florida 32824-8529
407 / 826-5314
Fax 407 / 850-6945
www.encolabs.com

ENCO Laboratories

DHRS Certification No. E83182

Client:	Environmental Detachment Charleston	**Report #:**	OR6392
		Date Submitted:	27-Apr-99
		Date Reported:	5-May-99
Address:	1899 N. Hobson Ave Charleston, SC 29405-2106	**Project Name:**	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6392-1	SA8S012	4/27/99 11:00	8081	alpha-BHC	1.9	U		µg/Kg	1.9	1.9
OR6392-1	SA8S012	4/27/99 11:00	8081	beta-BHC	1.9	U		µg/Kg	1.9	1.9
OR6392-1	SA8S012	4/27/99 11:00	8081	gamma-BHC (Lindane)	1.9	U		µg/Kg	1.9	1.5
OR6392-1	SA8S012	4/27/99 11:00	8081	Heptachlor	1.9	U		µg/Kg	1.9	1.9
OR6392-1	SA8S012	4/27/99 11:00	8081	delta-BHC	1.9	U		µg/Kg	1.9	1.9
OR6392-1	SA8S012	4/27/99 11:00	8081	Aldrin	1.9	U		µg/Kg	1.9	0.37
OR6392-1	SA8S012	4/27/99 11:00	8081	Heptachlor Epoxide	1.9	U		µg/Kg	1.9	1.5
OR6392-1	SA8S012	4/27/99 11:00	8081	Chlordane gamma	1.9	U		µg/Kg	1.9	0.3
OR6392-1	SA8S012	4/27/99 11:00	8081	Chlordane alpha	1.9	U		µg/Kg	1.9	0.37
OR6392-1	SA8S012	4/27/99 11:00	8081	Endosulfan I	1.9	U		µg/Kg	1.9	1.9
OR6392-1	SA8S012	4/27/99 11:00	8081	4,4'-DDE	1.9	U		µg/Kg	1.9	1.9
OR6392-1	SA8S012	4/27/99 11:00	8081	Dieldrin	1.9	U		µg/Kg	1.9	1.9
OR6392-1	SA8S012	4/27/99 11:00	8081	Endrin	1.9	U		µg/Kg	1.9	1.9
OR6392-1	SA8S012	4/27/99 11:00	8081	4,4'-DDD	1.9	U		µg/Kg	1.9	1.5
OR6392-1	SA8S012	4/27/99 11:00	8081	Endosulfan II	1.9	U		µg/Kg	1.9	1.9
OR6392-1	SA8S012	4/27/99 11:00	8081	4,4'-DDT	1.9	U		µg/Kg	1.9	1.9
OR6392-1	SA8S012	4/27/99 11:00	8081	Endrin aldehyde	1.9	U		µg/Kg	1.9	1.5
OR6392-1	SA8S012	4/27/99 11:00	8081	Endosulfan sulfate	1.9	U		µg/Kg	1.9	0.75
OR6392-1	SA8S012	4/27/99 11:00	8081	Methoxychlor	11	U		µg/Kg	2	11
OR6392-1	SA8S012	4/27/99 11:00	8081	Endrin Ketone	2.6	U		µg/Kg	1.9	2.6
OR6392-1	SA8S012	4/27/99 11:00	8081	Chlordane (Total)	37	U		µg/Kg	37	1.9
OR6392-1	SA8S012	4/27/99 11:00	8081	Toxaphene	75	U		µg/Kg	75	3.7
OR6392-1	SA8S012	4/27/99 11:00	8081	Isodrin	3.7	U		µg/Kg	3.7	3.7
OR6392-1	SA8S012	4/27/99 11:00	8081	Mirex	3.7	U		µg/Kg	3.7	3.7
OR6392-1	SA8S012	4/27/99 11:00	8081	2,4,5,6-TCMX	90			%		
OR6392-1	SA8S012	4/27/99 11:00	8081	DBC	67			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6392-1	SA8S012	4/27/99 11:00	SM2540G	Percent Solids	89			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

ENVIRONMENTAL CONSERVATION LABORATORIES

QS ☐ #_____

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: NTC Orlando | PROJECT NO. | P.O. NUMBER

PROJECT LOC. (State): FL | SAMPLER(s) NAME: Kurt Cope | PHONE: 496-2173 | FAX

CLIENT NAME: ENV DET Chas | CLIENT PROJECT MANAGER: A. Moyer

CLIENT ADDRESS (CITY, STATE, ZIP): 899 N. Hobson Ave N Chas. SC 29405

PAGE 1 OF 1

☐ STANDARD REPORT DELIVERY

☐ EXPEDITED REPORT DELIVERY (surcharge)

Date Due: 4/30/99

STATION	SAMPLE DATE	SAMPLE TIME	GRAB	COMP	SAMPLE IDENTIFICATION	MATRIX TYPE: SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	REQUIRED ANALYSIS: Pesticides	NUMBER OF CONTAINERS SUBMITTED	REMARKS
1	4/27/99	1100	X		SA8S012					X						1	
2	4/27/99	1105	X		SA8S013					X						1	
3	4/27/99	1110	X		SA8S014					X						1	
4	4/27/99	1115	X		SA8S015					X						1	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	

SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO | DATE | TIME

RELINQUISHED BY: (SIGNATURE) Kurt Cope | DATE 4/27/99 | TIME 1530

RECEIVED BY: (SIGNATURE) | DATE | TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) T. Pickman ☐ Jacksonville ☒ Orlando | DATE 4.27.99 | TIME 17.00

RELINQUISHED BY: (SIGNATURE) | DATE | TIME

RECEIVED BY: (SIGNATURE) James W. Gregory | DATE 4/27/99 | TIME 1530

RELINQUISHED BY: (SIGNATURE) | DATE | TIME

RECEIVED BY: (SIGNATURE) | DATE | TIME

RELINQUISHED BY: (SIGNATURE) | DATE | TIME

RECEIVED BY: (SIGNATURE) | DATE | TIME

CUSTODY INTACT ☐ YES ☐ NO

ENCO LOG NO. OR62

REMARKS

Client: Environmental Detachment Charleston

Address: 1899 N. Hobson Ave Charleston, SC 29405-2106

Report #: OR6391
Date Submitted: 27-Apr-99
Date Reported: 5-May-99
Project Name: NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6391-2	SA8S005	4/27/99 10:15	8081	alpha-BHC	1.8	U		µg/Kg	1.8	1.8
OR6391-2	SA8S005	4/27/99 10:15	8081	beta-BHC	1.8	U		µg/Kg	1.8	1.8
OR6391-2	SA8S005	4/27/99 10:15	8081	gamma-BHC (Lindane)	1.8	U		µg/Kg	1.8	1.4
OR6391-2	SA8S005	4/27/99 10:15	8081	Heptachlor	1.8	U		µg/Kg	1.8	1.8
OR6391-2	SA8S005	4/27/99 10:15	8081	delta-BHC	1.8	U		µg/Kg	1.8	1.8
OR6391-2	SA8S005	4/27/99 10:15	8081	Aldrin	1.8	U		µg/Kg	1.8	0.35
OR6391-2	SA8S005	4/27/99 10:15	8081	Heptachlor Epoxide	1.8	U		µg/Kg	1.8	1.4
OR6391-2	SA8S005	4/27/99 10:15	8081	Chlordane gamma	1.8	U		µg/Kg	1.8	0.3
OR6391-2	SA8S005	4/27/99 10:15	8081	Chlordane alpha	1.8	U		µg/Kg	1.8	0.35
OR6391-2	SA8S005	4/27/99 10:15	8081	Endosulfan I	1.8	U		µg/Kg	1.8	1.8
OR6391-2	SA8S005	4/27/99 10:15	8081	4,4'-DDE	1.8	U		µg/Kg	1.8	1.8
OR6391-2	SA8S005	4/27/99 10:15	8081	Dieldrin	1.8	U		µg/Kg	1.8	1.8
OR6391-2	SA8S005	4/27/99 10:15	8081	Endrin	1.8	U		µg/Kg	1.8	1.8
OR6391-2	SA8S005	4/27/99 10:15	8081	4,4'-DDD	1.8	U		µg/Kg	1.8	1.4
OR6391-2	SA8S005	4/27/99 10:15	8081	Endosulfan II	1.8	U		µg/Kg	1.8	1.8
OR6391-2	SA8S005	4/27/99 10:15	8081	4,4'-DDT	1.8	U		µg/Kg	1.8	1.8
OR6391-2	SA8S005	4/27/99 10:15	8081	Endrin aldehyde	1.8	U		µg/Kg	1.8	1.4
OR6391-2	SA8S005	4/27/99 10:15	8081	Endosulfan sulfate	1.8	U		µg/Kg	1.8	0.7
OR6391-2	SA8S005	4/27/99 10:15	8081	Methoxychlor	10	U		µg/Kg	2	10
OR6391-2	SA8S005	4/27/99 10:15	8081	Endrin Ketone	2.4	U		µg/Kg	1.8	2.4
OR6391-2	SA8S005	4/27/99 10:15	8081	Chlordane (Total)	35	U		µg/Kg	35	1.8
OR6391-2	SA8S005	4/27/99 10:15	8081	Toxaphene	70	U		µg/Kg	70	3.5
OR6391-2	SA8S005	4/27/99 10:15	8081	Isodrin	3.5	U		µg/Kg	3.5	3.5
OR6391-2	SA8S005	4/27/99 10:15	8081	Mirex	3.5	U		µg/Kg	3.5	3.5
OR6391-2	SA8S005	4/27/99 10:15	8081	2,4,5,6-TCMX	97			%		
OR6391-2	SA8S005	4/27/99 10:15	8081	DBC	97			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6391-2	SA8S005	4/27/99 10:15	SM2540G	Percent Solids	95			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client:	Environmental Detachment Charleston	Report #: OR6391	
		Date Submitted:	27-Apr-99
		Date Reported:	5-May-99
Address:	1899 N. Hobson Ave Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6391-3	SA8S006	4/27/99 10:18	8081	alpha-BHC	1.9	U		µg/Kg	1.9	1.9
OR6391-3	SA8S006	4/27/99 10:18	8081	beta-BHC	1.9	U		µg/Kg	1.9	1.9
OR6391-3	SA8S006	4/27/99 10:18	8081	gamma-BHC (Lindane)	1.9	U		µg/Kg	1.9	1.5
OR6391-3	SA8S006	4/27/99 10:18	8081	Heptachlor	1.9	U		µg/Kg	1.9	1.9
OR6391-3	SA8S006	4/27/99 10:18	8081	delta-BHC	1.9	U		µg/Kg	1.9	1.9
OR6391-3	SA8S006	4/27/99 10:18	8081	Aldrin	1.9	U		µg/Kg	1.9	0.37
OR6391-3	SA8S006	4/27/99 10:18	8081	Heptachlor Epoxide	1.9	U		µg/Kg	1.9	1.5
OR6391-3	SA8S006	4/27/99 10:18	8081	Chlordane gamma	1.9	U		µg/Kg	1.9	0.3
OR6391-3	SA8S006	4/27/99 10:18	8081	Chlordane alpha	1.9	U		µg/Kg	1.9	0.37
OR6391-3	SA8S006	4/27/99 10:18	8081	Endosulfan I	1.9	U		µg/Kg	1.9	1.9
OR6391-3	SA8S006	4/27/99 10:18	8081	4,4'-DDE	1.9	U		µg/Kg	1.9	1.9
OR6391-3	SA8S006	4/27/99 10:18	8081	Dieldrin	1.9	U		µg/Kg	1.9	1.9
OR6391-3	SA8S006	4/27/99 10:18	8081	Endrin	1.9	U		µg/Kg	1.9	1.9
OR6391-3	SA8S006	4/27/99 10:18	8081	4,4'-DDD	1.9	U		µg/Kg	1.9	1.5
OR6391-3	SA8S006	4/27/99 10:18	8081	Endosulfan II	1.9	U		µg/Kg	1.9	1.9
OR6391-3	SA8S006	4/27/99 10:18	8081	4,4'-DDT	1.9	U		µg/Kg	1.9	1.9
OR6391-3	SA8S006	4/27/99 10:18	8081	Endrin aldehyde	1.9	U		µg/Kg	1.9	1.5
OR6391-3	SA8S006	4/27/99 10:18	8081	Endosulfan sulfate	1.9	U		µg/Kg	1.9	0.74
OR6391-3	SA8S006	4/27/99 10:18	8081	Methoxychlor	11	U		µg/Kg	2	11
OR6391-3	SA8S006	4/27/99 10:18	8081	Endrin Ketone	2.6	U		µg/Kg	1.9	2.6
OR6391-3	SA8S006	4/27/99 10:18	8081	Chlordane (Total)	37	U		µg/Kg	37	1.9
OR6391-3	SA8S006	4/27/99 10:18	8081	Toxaphene	74	U		µg/Kg	74	3.7
OR6391-3	SA8S006	4/27/99 10:18	8081	Isodrin	3.7	U		µg/Kg	3.7	3.7
OR6391-3	SA8S006	4/27/99 10:18	8081	Mirex	3.7	U		µg/Kg	3.7	3.7
OR6391-3	SA8S006	4/27/99 10:18	8081	2,4,5,6-TCMX	100			%		
OR6391-3	SA8S006	4/27/99 10:18	8081	DBC	129			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6391-3	SA8S006	4/27/99 10:18	SM2540G	Percent Solids	90			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client: Environmental Detachment Charleston

Address: 1899 N. Hobson Ave Charleston, SC 29405-2106

Report #: OR6391
Date Submitted: 27-Apr-99
Date Reported: 5-May-99
Project Name: NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6391-4	SA8S007	4/27/99 10:22	8081	alpha-BHC	1.8	U		µg/Kg	1.8	1.8
OR6391-4	SA8S007	4/27/99 10:22	8081	beta-BHC	1.8	U		µg/Kg	1.8	1.8
OR6391-4	SA8S007	4/27/99 10:22	8081	gamma-BHC (Lindane)	1.8	U		µg/Kg	1.8	1.4
OR6391-4	SA8S007	4/27/99 10:22	8081	Heptachlor	1.8	U		µg/Kg	1.8	1.8
OR6391-4	SA8S007	4/27/99 10:22	8081	delta-BHC	1.8	U		µg/Kg	1.8	1.8
OR6391-4	SA8S007	4/27/99 10:22	8081	Aldrin	1.8	U		µg/Kg	1.8	0.35
OR6391-4	SA8S007	4/27/99 10:22	8081	Heptachlor Epoxide	1.8	U		µg/Kg	1.8	1.4
OR6391-4	SA8S007	4/27/99 10:22	8081	Chlordane gamma	1.8	U		µg/Kg	1.8	0.3
OR6391-4	SA8S007	4/27/99 10:22	8081	Chlordane alpha	1.8	U		µg/Kg	1.8	0.35
OR6391-4	SA8S007	4/27/99 10:22	8081	Endosulfan I	1.8	U		µg/Kg	1.8	1.8
OR6391-4	SA8S007	4/27/99 10:22	8081	4,4'-DDE	1.8	U		µg/Kg	1.8	1.8
OR6391-4	SA8S007	4/27/99 10:22	8081	Dieldrin	1.8	U		µg/Kg	1.8	1.8
OR6391-4	SA8S007	4/27/99 10:22	8081	Endrin	1.8	U		µg/Kg	1.8	1.8
OR6391-4	SA8S007	4/27/99 10:22	8081	4,4'-DDD	1.8	U		µg/Kg	1.8	1.4
OR6391-4	SA8S007	4/27/99 10:22	8081	Endosulfan II	1.8	U		µg/Kg	1.8	1.8
OR6391-4	SA8S007	4/27/99 10:22	8081	4,4'-DDT	1.8	U		µg/Kg	1.8	1.8
OR6391-4	SA8S007	4/27/99 10:22	8081	Endrin aldehyde	1.8	U		µg/Kg	1.8	1.4
OR6391-4	SA8S007	4/27/99 10:22	8081	Endosulfan sulfate	1.8	U		µg/Kg	1.8	0.71
OR6391-4	SA8S007	4/27/99 10:22	8081	Methoxychlor	11	U		µg/Kg	2	11
OR6391-4	SA8S007	4/27/99 10:22	8081	Endrin Ketone	2.4	U		µg/Kg	1.8	2.5
OR6391-4	SA8S007	4/27/99 10:22	8081	Chlordane (Total)	35	U		µg/Kg	35	1.8
OR6391-4	SA8S007	4/27/99 10:22	8081	Toxaphene	71	U		µg/Kg	71	3.5
OR6391-4	SA8S007	4/27/99 10:22	8081	Isodrin	3.5	U		µg/Kg	3.5	3.5
OR6391-4	SA8S007	4/27/99 10:22	8081	Mirex	3.5	U		µg/Kg	3.5	3.5
OR6391-4	SA8S007	4/27/99 10:22	8081	2,4,5,6-TCMX	106			%		
OR6391-4	SA8S007	4/27/99 10:22	8081	DBC	106			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6391-4	SA8S007	4/27/99 10:22	SM2540G	Percent Solids	94			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

QS[illegible]F #_____

ENVIRONME[illegible]AL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
NTC Orlando		

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE	FAX
FL.	Rusty Cope	496-2173	849-5468

CLIENT NAME	CLIENT PROJECT MANAGER
Enu Det Chas	A. Moyer

CLIENT ADDRESS (CITY, STATE, ZIP): 1899 N. Hobson Ave N. Chas. SC 29405

PAGE [ ] OF [ ]

☐ STANDARD REPORT DELIVERY

☐ EXPEDITED REPORT DELIVERY (surcharge)

Date Due: 4-30-99

STATION	SAMPLE DATE	SAMPLE TIME	GRAB	COMP	SAMPLE IDENTIFICATION	MATRIX TYPE: SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	REQUIRED ANALYSIS: Pesticides	FL TRPH	PH SEPARATE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
1	4/27/99	1010			SA8S004					X					1				
2		1015			SA8S005					X					1				
3		1018			SA8S006					X					1				
4		1022			SA8S007					X					1				
5		1027			SA8S008					X					1				
6		1033			SA8S009					X					1				
7		1038			SA8S010					X					1				
8		1044			SA8S011					X					1				
9	4/26/99	1630			Back Fill FL TRPH					X						1			
10																			
11																			
12																			
13																			
14																			

SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
RELINQUISHED BY: (SIGNATURE) Rusty Cope	4/27/99	1530	RECEIVED BY: (SIGNATURE) James W. Gregory	4/27/99	1530	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) T. Pickerman ☐ Jacksonville ☑ Orlando	DATE	TIME	CUSTODY INTACT ☐ YES ☑ NO	ENCO LOG NO. OR63[illegible]	REMARKS
	4-27-99	17:00			

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 08, 1999

Sample ID	: 99SPORT0163-4
Lab ID	: 9905055-11
Matrix	: Soil
Date Collected	: 05/03/99
Date Received	: 05/04/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Pesticides - 21 items											
4,4'-DDD	U	ND	0.596	1.33	ug/kg	1.0	SJ	05/07/99	0654	148299	1
4,4'-DDE		2.40	0.556	1.33	ug/kg	1.0					
4,4'-DDT	J	0.999	0.806	1.33	ug/kg	1.0					
Aldrin	U	ND	0.263	0.670	ug/kg	1.0					
Dieldrin	U	ND	0.743	1.33	ug/kg	1.0					
Endosulfan I	U	ND	0.460	0.670	ug/kg	1.0					
Endosulfan II	U	ND	0.689	1.33	ug/kg	1.0					
Endosulfan sulfate	U	ND	0.922	0.922	ug/kg	1.0					
Endrin	U	ND	0.689	1.33	ug/kg	1.0					
Endrin aldehyde	U	ND	1.01	1.33	ug/kg	1.0					
Endrin ketone	U	ND	0.816	1.33	ug/kg	1.0					
Heptachlor	U	ND	0.440	0.670	ug/kg	1.0					
Heptachlor epoxide	U	ND	0.220	0.670	ug/kg	1.0					
Methoxychlor	U	ND	3.59	6.70	ug/kg	1.0					
Toxaphene	U	ND	11.1	33.3	ug/kg	1.0					
alpha-BHC	U	ND	0.266	0.670	ug/kg	1.0					
alpha-Chlordane		0.679	0.446	0.670	ug/kg	1.0					
beta-BHC	U	ND	0.393	0.670	ug/kg	1.0					
delta-BHC	U	ND	0.286	0.670	ug/kg	1.0					
gamma-BHC	U	ND	0.353	0.670	ug/kg	1.0					
gamma-Chlordane		1.57	0.473	0.670	ug/kg	1.0					

The following prep procedures were performed:

Pesticides	CPU	05/05/99	1700	148299

P.O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905055-11

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 08, 1999

Sample ID : 99SPORT0163-4

Surrogate Recovery	Test	Percent%	Acceptable Limits
4CMX	PEST-8081A	105000*	(36.5 - 131.)
Decachlorobiphenyl	PEST-8081A	90.0	(50.7 - 135.)

M = Method	Method-Description
M 1	EPA 8081A
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

General Engineering Labo[illegible]ories, Inc.
2040 Savage Road
Charleston, South Carol[illegible].07
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Page 1 of 1

CHAIN OF CUSTODY RECORD

— 3 DAY TURNAROUND —

Client Name/Facility Name: ENV D NTC ORLANDO

Collected by/Company: ENV DOT CHAEN

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide 8081	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type			Remarks
99Sport0163-1	5/3/99	1700		X		X	1								X										SA85025
99Sport0163-2	5/3/99	1708		X		X	1								X										SA850 26
99Sport0163-3	5/3/99	1715		X		X	1								X										SA850 27
99Sport0163-4	5/3/99	1723		X		X	1								X										SA850 28

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Relinquished by:	Date:	Time:	Received by:
K W Cope	5/3/99	1805	W. R. Hiers, Jr.
Relinquished by:	Date:	Time:	Received by lab by:
—	—	—	Kyra R Burt

Relinquished by:	Date:	Time:	Received by:
W. R. Hiers, Jr.	5/4/99	1336	—
Date: 5/4/99	Time: 1336	Remarks:	

White = [illegible]le collector Yellow = file Pink = with report

Client:	Environmental Detachment Charleston	Report #:	OR6392
		Date Submitted:	27-Apr-99
		Date Reported:	5-May-99
Address:	1899 N. Hobson Ave Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6392-4	SA8S015	4/27/99 11:15	8081	alpha-BHC	2.5	U		µg/Kg	2.5	2.5
OR6392-4	SA8S015	4/27/99 11:15	8081	beta-BHC	2.5	U		µg/Kg	2.5	2.5
OR6392-4	SA8S015	4/27/99 11:15	8081	gamma-BHC (Lindane)	2.5	U		µg/Kg	2.5	2
OR6392-4	SA8S015	4/27/99 11:15	8081	Heptachlor	2.5	U		µg/Kg	2.5	2.5
OR6392-4	SA8S015	4/27/99 11:15	8081	delta-BHC	2.5	U		µg/Kg	2.5	2.5
OR6392-4	SA8S015	4/27/99 11:15	8081	Aldrin	2.5	U		µg/Kg	2.5	0.48
OR6392-4	SA8S015	4/27/99 11:15	8081	Heptachlor Epoxide	2.5	U		µg/Kg	2.5	2
OR6392-4	SA8S015	4/27/99 11:15	8081	Chlordane gamma	2.5	U		µg/Kg	2.5	0.4
OR6392-4	SA8S015	4/27/99 11:15	8081	Chlordane alpha	2.5	U		µg/Kg	2.5	0.48
OR6392-4	SA8S015	4/27/99 11:15	8081	Endosulfan I	2.5	U		µg/Kg	2.5	2.5
OR6392-4	SA8S015	4/27/99 11:15	8081	4,4'-DDE	2.5	U		µg/Kg	2.5	2.5
OR6392-4	SA8S015	4/27/99 11:15	8081	Dieldrin	2.5	U		µg/Kg	2.5	2.5
OR6392-4	SA8S015	4/27/99 11:15	8081	Endrin	2.5	U		µg/Kg	2.5	2.5
OR6392-4	SA8S015	4/27/99 11:15	8081	4,4'-DDD	2.5	U		µg/Kg	2.5	2
OR6392-4	SA8S015	4/27/99 11:15	8081	Endosulfan II	2.5	U		µg/Kg	2.5	2.5
OR6392-4	SA8S015	4/27/99 11:15	8081	4,4'-DDT	2.5	U		µg/Kg	2.5	2.5
OR6392-4	SA8S015	4/27/99 11:15	8081	Endrin aldehyde	2.5	U		µg/Kg	2.5	2
OR6392-4	SA8S015	4/27/99 11:15	8081	Endosulfan sulfate	2.5	U		µg/Kg	2.5	0.98
OR6392-4	SA8S015	4/27/99 11:15	8081	Methoxychlor	15	U		µg/Kg	3	15
OR6392-4	SA8S015	4/27/99 11:15	8081	Endrin Ketone	3.4	U		µg/Kg	2.5	3.4
OR6392-4	SA8S015	4/27/99 11:15	8081	Chlordane (Total)	49	U		µg/Kg	49	2.5
OR6392-4	SA8S015	4/27/99 11:15	8081	Toxaphene	98	U		µg/Kg	98	4.8
OR6392-4	SA8S015	4/27/99 11:15	8081	Isodrin	4.8	U		µg/Kg	4.8	4.8
OR6392-4	SA8S015	4/27/99 11:15	8081	Mirex	4.8	U		µg/Kg	4.8	4.8
OR6392-4	SA8S015	4/27/99 11:15	8081	2,4,5,6-TCMX	118			%		
OR6392-4	SA8S015	4/27/99 11:15	8081	DBC	88			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6392-4	SA8S015	4/27/99 11:15	SM2540G	Percent Solids	68			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

QSARF #_____

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
NTC Orlando		

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE	FAX
FL	Rusty Cope	496-2173	

CLIENT NAME	CLIENT PROJECT MANAGER
ENV DET Chas	A. Moyer

CLIENT ADDRESS (CITY, STATE, ZIP): 1899 N. Hobson Ave N Chas. SC 29405

PAGE 1 OF 1

☐ STANDARD REPORT DELIVERY

☐ EXPEDITED REPORT DELIVERY (surcharge)

Date Due: 4/30/99

SAMPLE STATION	SAMPLE DATE	SAMPLE TIME	GRAB	COMP	SAMPLE IDENTIFICATION	MATRIX TYPE: SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	REQUIRED ANALYSIS: Pesticides	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
1	4/27/99	1100	X		SA85012					X					1			
2	4/27/99	1105	X		SA85013					X					1			
3	4/27/99	1110	X		SA85014					X					1			
4	4/27/99	1115	X		SA85015					X					1			
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		

SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
RELINQUISHED BY: (SIGNATURE) Rusty Cope	DATE 4/27/99	TIME 1530	RECEIVED BY: (SIGNATURE) James W. Gregory	DATE 4/27/99	TIME 1530	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) ☐ Jacksonville ■ Orlando	DATE	TIME	CUSTODY INTACT ☐ YES ☐ NO	ENCO LOG NO.	REMARKS
T. Pick	4.27.99	17.00		OR62	

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 08, 1999

Sample ID	: 99SPORT0162-4
Lab ID	: 9905055-04
Matrix	: Soil
Date Collected	: 05/03/99
Date Received	: 05/04/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Pesticides - 21 items											
4,4'-DDD	U	ND	5.96	13.3	ug/kg	10.	SJ	05/07/99	0249	148299	1
4,4'-DDE	U	ND	5.56	13.3	ug/kg	10.					
4,4'-DDT	U	ND	8.06	13.3	ug/kg	10.					
Aldrin	U	ND	2.63	6.66	ug/kg	10.					
Dieldrin	U	ND	7.43	13.3	ug/kg	10.					
Endosulfan I	U	ND	4.60	6.66	ug/kg	10.					
Endosulfan II	U	ND	6.89	13.3	ug/kg	10.					
Endosulfan sulfate	U	ND	9.22	9.22	ug/kg	10.					
Endrin	U	ND	6.89	13.3	ug/kg	10.					
Endrin aldehyde	U	ND	10.1	13.3	ug/kg	10.					
Endrin ketone	U	ND	8.16	13.3	ug/kg	10.					
Heptachlor	U	ND	4.40	6.66	ug/kg	10.					
Heptachlor epoxide	U	ND	2.20	6.66	ug/kg	10.					
Methoxychlor	U	ND	35.9	66.6	ug/kg	10.					
Toxaphene	U	ND	111	333	ug/kg	10.					
alpha-BHC	U	ND	2.66	6.66	ug/kg	10.					
alpha-Chlordane	U	ND	4.46	6.66	ug/kg	10.					
beta-BHC	U	ND	3.93	6.66	ug/kg	10.					
delta-BHC	U	ND	2.86	6.66	ug/kg	10.					
gamma-BHC	U	ND	3.53	6.66	ug/kg	10.					
gamma-Chlordane	U	ND	4.73	6.66	ug/kg	10.					

The following prep procedures were performed:

Pesticides CPU 05/05/99 1700 148299

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905055-04

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 08, 1999

Sample ID : 99SPORT0162-4

Surrogate Recovery	Test	Percent%	Acceptable Limits
4CMX	PEST-8081A	89.5	(36.5 - 131.)
Decachlorobiphenyl	PEST-8081A	105.	(50.7 - 135.)

M = Method	Method-Description
M 1	EPA 8081A
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

General Engineering Lab[illegible]es, Inc.
2040 Savage Road
Charleston, South Caroli[illegible]07
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

CHAIN OF CUSTODY RECORD

Page 1 of 1 — 3 DAY TURNAROUND

Client Name/Facility Name: NTC Orlando

Collected by/Company: Env Det CHAS

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide 8081	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type		Remarks
99Sport0162-1	4/27/99	1355		X	X		1								X									Split SA-9-9 SA95I9
99Sport0162-2	5/1/99	1200	X				1								X									Equip Rinsate Blank SA37501
99Sport0162-3	5/1/99	1210		X	X		1								X									Split SA37SI02
99Sport0162-4	5/3/99	1630		X	X		1								X									SA85021
99Sport0162-5	5/3/99	1637		X	X		1								X									SA85022
99Sport0162-6	5/3/99	1643		X		X	1								X									SA85023
99Sport0162-7	5/3/99	1650		X	X		1								X									SA85024

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Relinquished by:	Date:	Time:	Received by:
K W Cole	5/3/99	1805	W. R. Hiers, Jr.
Relinquished by:	Date:	Time:	Received by lab by:
—	—	—	Ryan R Burt

Relinquished by:	Date:	Time:	Received by:
W. R. Hiers, Jr.	5/4/99	1336	—
Date: 5/4/99	Time: 1336	Remarks:	

White = le collector Yellow = file Pink = with report

Client:	Environmental Detachment Charleston	Report #:	OR6393
		Date Submitted:	27-Apr-99
		Date Reported:	5-May-99
Address:	1899 N. Hobson Ave Charleston, SC 29405-2106	Project Name:	NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6393-2	SA8S017	4/27/99 11:35	8081	alpha-BHC	1.7	U		µg/Kg	1.7	1.7
OR6393-2	SA8S017	4/27/99 11:35	8081	beta-BHC	1.7	U		µg/Kg	1.7	1.7
OR6393-2	SA8S017	4/27/99 11:35	8081	gamma-BHC (Lindane)	1.7	U		µg/Kg	1.7	1.4
OR6393-2	SA8S017	4/27/99 11:35	8081	Heptachlor	1.7	U		µg/Kg	1.7	1.7
OR6393-2	SA8S017	4/27/99 11:35	8081	delta-BHC	1.7	U		µg/Kg	1.7	1.7
OR6393-2	SA8S017	4/27/99 11:35	8081	Aldrin	1.7	U		µg/Kg	1.7	0.34
OR6393-2	SA8S017	4/27/99 11:35	8081	Heptachlor Epoxide	1.7	U		µg/Kg	1.7	1.4
OR6393-2	SA8S017	4/27/99 11:35	8081	Chlordane gamma	1.7	U		µg/Kg	1.7	0.3
OR6393-2	SA8S017	4/27/99 11:35	8081	Chlordane alpha	1.7	U		µg/Kg	1.7	0.34
OR6393-2	SA8S017	4/27/99 11:35	8081	Endosulfan I	1.7	U		µg/Kg	1.7	1.7
OR6393-2	SA8S017	4/27/99 11:35	8081	4,4'-DDE	1.7	U		µg/Kg	1.7	1.7
OR6393-2	SA8S017	4/27/99 11:35	8081	Dieldrin	1.7	U		µg/Kg	1.7	1.7
OR6393-2	SA8S017	4/27/99 11:35	8081	Endrin	1.7	U		µg/Kg	1.7	1.7
OR6393-2	SA8S017	4/27/99 11:35	8081	4,4'-DDD	1.7	U		µg/Kg	1.7	1.4
OR6393-2	SA8S017	4/27/99 11:35	8081	Endosulfan II	1.7	U		µg/Kg	1.7	1.7
OR6393-2	SA8S017	4/27/99 11:35	8081	4,4'-DDT	1.7	U		µg/Kg	1.7	1.7
OR6393-2	SA8S017	4/27/99 11:35	8081	Endrin aldehyde	1.7	U		µg/Kg	1.7	1.4
OR6393-2	SA8S017	4/27/99 11:35	8081	Endosulfan sulfate	1.7	U		µg/Kg	1.7	0.68
OR6393-2	SA8S017	4/27/99 11:35	8081	Methoxychlor	10	U		µg/Kg	2	10
OR6393-2	SA8S017	4/27/99 11:35	8081	Endrin Ketone	2.3	U		µg/Kg	1.7	2.4
OR6393-2	SA8S017	4/27/99 11:35	8081	Chlordane (Total)	34	U		µg/Kg	34	1.7
OR6393-2	SA8S017	4/27/99 11:35	8081	Toxaphene	68	U		µg/Kg	68	3.4
OR6393-2	SA8S017	4/27/99 11:35	8081	Isodrin	3.4	U		µg/Kg	3.4	3.4
OR6393-2	SA8S017	4/27/99 11:35	8081	Mirex	3.4	U		µg/Kg	3.4	3.4
OR6393-2	SA8S017	4/27/99 11:35	8081	2,4,5,6-TCMX	102			%		
OR6393-2	SA8S017	4/27/99 11:35	8081	DBC	82			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULTS	QUAL	DIL	UNITS	RDL	MDL
OR6393-2	SA8S017	4/27/99 11:35	SM2540G	Percent Solids	98			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

QS ⊏ #_____

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
NTC Orlando		

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE	FAX
FL	Rusty Cope	496-2173	

CLIENT NAME	CLIENT PROJECT MANAGER
ENSU DET Chas	A. Moyer

CLIENT ADDRESS (CITY, STATE, ZIP): 899 N. Hobson Ave N. Chas SC 29405

PAGE ____ OF ____

☐ STANDARD REPORT DELIVERY

☐ EXPEDITED REPORT DELIVERY (surcharge)

Date Due: _____

SAMPLE STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	MATRIX TYPE: SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	REQUIRED ANALYSIS: Pesticides	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
1	4/27/99	1130	X		SA85016					X					1			
2	4/27/99	1135	X		SA85017					X					1			
3	4/27/99	1140	X		SA85018					X					1			
4					~~SA85019 RWB~~													
5	4/27/99	~~1500~~																
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		

SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
RELINQUISHED BY: (SIGNATURE) Rusty Cope	DATE 4/27/99	TIME 15:30	RECEIVED BY: (SIGNATURE) James Gregory	DATE 4/27/99	TIME 15:30	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) ☐ Jacksonville ☒ Orlando	DATE	TIME	CUSTODY INTACT ☐ YES ☐ NO	ENCO LOG NO.	REMARKS
TORS Chas	4.27.99	17.00		ORG 3	

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 13, 1999

Sample ID : 99SPORT0173-1
Lab ID : 9905273-01
Matrix : Soil
Date Collected : 05/09/99
Date Received : 05/10/99
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic	U	ND	433	476	ug/kg	2.0	MBL	05/11/99	1550	148766	
The following prep procedures were performed:											
TRACE							AJM	05/10/99	1800	148766	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905273-01

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 13, 1999

Sample ID	: 99SPORT0173-2
Lab ID	: 9905273-02
Matrix	: Soil
Date Collected	: 05/09/99
Date Received	: 05/10/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic	U	ND	425	467	ug/kg	2.0	MBL	05/11/99	1556	148766	
The following prep procedures were performed:											
TRACE							AJM	05/10/99	1800	148766	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905273-02

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874.
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 13, 1999

Sample ID	: 99SPORT0173-3
Lab ID	: 9905273-03
Matrix	: Soil
Date Collected	: 05/09/99
Date Received	: 05/10/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic	U	ND	441	485	ug/kg	2.0	MBL	05/11/99	1602	148766	1
The following prep procedures were performed:											
TRACE							AJM	05/10/99	1800	148766	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905273-03

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 13, 1999

Sample ID : 99SPORT0173-4
Lab ID : 9905273-04
Matrix : Soil
Date Collected : 05/09/99
Date Received : 05/10/99
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic	U	ND	425	467	ug/kg	2.0	MBL	05/11/99	1608	148766	
The following prep procedures were performed:											
TRACE							AJM	05/10/99	1800	148766	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905273-04

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 13, 1999

Sample ID	: 99SPORT0173-5
Lab ID	: 9905273-05
Matrix	: Soil
Date Collected	: 05/09/99
Date Received	: 05/10/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic	U	ND	450	495	ug/kg	2.0	MBL	05/11/99	1614	148766	1
The following prep procedures were performed:											
TRACE							AJM	05/10/99	1800	148766	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

iewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905273-05

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 13, 1999

Sample ID	: 99SPORT0173-6
Lab ID	: 9905273-06
Matrix	: Soil
Date Collected	: 05/09/99
Date Received	: 05/10/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic	U	ND	441	485	ug/kg	2.0	MBL	05/11/99	1620	148766	
The following prep procedures were performed:											
TRACE							AJM	05/10/99	1800	148766	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

iewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905273-06

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 13, 1999

Sample ID	: 99SPORT0173-7
Lab ID	: 9905273-07
Matrix	: Soil
Date Collected	: 05/09/99
Date Received	: 05/10/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic	U	ND	441	485	ug/kg	2.0	MBL	05/11/99	1626	148766	
The following prep procedures were performed:											
TRACE							AJM	05/10/99	1800	148766	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

viewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905273-07

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 13, 1999

Sample ID	: 99SPORT0173-8
Lab ID	: 9905273-08
Matrix	: Soil
Date Collected	: 05/09/99
Date Received	: 05/10/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic	U	ND	430	472	ug/kg	2.0	MBL	05/11/99	1633	148766	1
The following prep procedures were performed:											
TRACE							AJM	05/10/99	1800	148766	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

iewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905273-08

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 13, 1999

Sample ID	: 99SPORT0173-9
Lab ID	: 9905273-09
Matrix	: Soil
Date Collected	: 05/09/99
Date Received	: 05/10/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic		507	450	495	ug/kg	2.0	MBL	05/11/99	1654	148766	1
The following prep procedures were performed:											
TRACE							AJM	05/10/99	1800	148766	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905273-09

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 13, 1999

Sample ID	: 99SPORT0173-10
Lab ID	: 9905273-10
Matrix	: Soil
Date Collected	: 05/09/99
Date Received	: 05/10/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic		2750	414	455	ug/kg	2.0	MBL	05/11/99	1700	148766	1
The following prep procedures were performed:											
TRACE							AJM	05/10/99	1800	148766	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

iewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper

9905273-10

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 13, 1999

Sample ID	: 99SPORT0173-11
Lab ID	: 9905273-11
Matrix	: Soil
Date Collected	: 05/09/99
Date Received	: 05/10/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic		871	425	467	ug/kg	2.0	MBL	05/11/99	1706	148766	
The following prep procedures were performed:											
TRACE							AJM	05/10/99	1800	148766	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

iewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905273-11

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 13, 1999

Sample ID	: 99SPORT0173-12
Lab ID	: 9905273-12
Matrix	: Soil
Date Collected	: 05/09/99
Date Received	: 05/10/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic		8790	2090	2300	ug/kg	10.	MBL	05/11/99	1712	148766	1
The following prep procedures were performed:											
TRACE							AJM	05/10/99	1800	148766	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

ewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905273-12

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 13, 1999

Sample ID	: 99SPORT0173-13
Lab ID	: 9905273-13
Matrix	: Soil
Date Collected	: 05/09/99
Date Received	: 05/10/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic	U	ND	2090	2300	ug/kg	10.	MBL	05/11/99	1718	148766	
The following prep procedures were performed:											
TRACE							AJM	05/10/99	1800	148766	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

iewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905273-13

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 13, 1999

Sample ID	: 99SPORT0173-14
Lab ID	: 9905273-14
Matrix	: Soil
Date Collected	: 05/09/99
Date Received	: 05/10/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic	U	ND	2170	2380	ug/kg	10.	MBL	05/11/99	1724	148766	
The following prep procedures were performed:											
TRACE							AJM	05/10/99	1800	148766	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

viewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905273-14

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 13, 1999

Sample ID	: 99SPORT0173-15
Lab ID	: 9905273-15
Matrix	: Soil
Date Collected	: 05/09/99
Date Received	: 05/10/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic		6460	2170	2380	ug/kg	10.	MBL	05/11/99	1731	148766	1
The following prep procedures were performed:											
TRACE							AJM	05/10/99	1800	148766	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905273-15

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 13, 1999

Sample ID : 99SPORT0173-17
Lab ID : 9905273-17
Matrix : Soil
Date Collected : 05/09/99
Date Received : 05/10/99
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic	U	ND	2110	2320	ug/kg	10.	MBL	05/11/99	1743	148766	
The following prep procedures were performed:											
TRACE							AJM	05/10/99	1800	148766	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

ewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905273-17

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 13, 1999

Sample ID	: 99SPORT0173-18
Lab ID	: 9905273-18
Matrix	: Soil
Date Collected	: 05/09/99
Date Received	: 05/10/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic	U	ND	2280	2500	ug/kg	10.	MBL	05/11/99	1749	148766	
The following prep procedures were performed:											
TRACE							AJM	05/10/99	1800	148766	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905273-18

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874:
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 13, 1999

Sample ID	: 99SPORT0173-19
Lab ID	: 9905273-19
Matrix	: Soil
Date Collected	: 05/09/99
Date Received	: 05/10/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic		5720	2090	2300	ug/kg	10.	MBL	05/11/99	1811	148766	1
The following prep procedures were performed:											
TRACE							AJM	05/10/99	1800	148766	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

iewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905273-19

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 13, 1999

Sample ID	: 99SPORT0173-20
Lab ID	: 9905273-20
Matrix	: Soil
Date Collected	: 05/09/99
Date Received	: 05/10/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic		8910	2210	2430	ug/kg	10.	MBL	05/11/99	1817	148766	
The following prep procedures were performed:											
TRACE							AJM	05/10/99	1800	148766	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

iewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905273-20

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 13, 1999

Sample ID	: 99SPORT0173-21
Lab ID	: 9905273-21
Matrix	: Soil
Date Collected	: 05/09/99
Date Received	: 05/10/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic		4890	430	472	ug/kg	2.0	MBL	05/11/99	1334	148767	1
The following prep procedures were performed:											
TRACE							AJM	05/10/99	1800	148767	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905273-21

General Engineering Laboratories, Inc
2040 Savage Road
Charleston, South Caro. 29407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

CHAIN OF CUSTODY RECORD

Page 1 of 2

9905373

Client Name/Facility Name: NTC Orlando

Collected by/Company: ENV DET Chas

	SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Arsenic	Remarks
1	99Sport0173-1	5/9/99	0800		X		X	1																X	SPLIT-TO ENCO SA85021 .1
2	99Sport0173-2	5/9/99	0805		X		X	1																X	SA85022 .1
3	99Sport0173-3	5/9/99	0809		X		X	1																X	SA85023 .1
4	99Sport0173-4	5/9/99	0814		X		X	1																X	SA85024 .1
5	99Sport0173-5	5/9/99	0819		X		X	1																X	SA85025 .1
6	99Sport0173-6	5/9/99	0825		X		X	1																X	SA85026 .1
7	99Sport0173-7	5/9/99	0829		X		X	1																X	SA85027 .1
8	99Sport0173-8	5/9/99	0835		X		X	1																X	SA85028 .1
9	99Sport0173-9	5/9/99	0840		X		X	1																X	SA85029 .1
10	99Sport0173-10	5/9/99	0845		X		X	1																X	SA85030 .1
11	99Sport0173-11	5/9/99	0849		X		X	1																X	SA85031 .1
12	99Sport0173-12	5/9/99	0855		X		X	1																X	SA85032 .1
13	99Sport0173-13	5/9/99	0859		X		X	1																X	SA85033 .1

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

40139

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
K W Pope	5/9/99	1600					
Relinquished by:	Date:	Time:	Received by lab by:	Date:	Time:	Remarks:	
			P Nowell	10-9-99	10:00		

White = sample collector Yellow = file Pink = with report

NTNUC00171

CHAIN OF CUSTODY RECORD

General Engineering Lab, Inc.
2040 Savage Road
Charleston, South Carolina 29407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Page 2 of 2

19052739

Client Name/Facility Name: NTC Orlando

Collected by/Company: Env. Det Chas.

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

40139

	SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify 8240	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Arsenic	Remarks	
14	99Spot0173-14	5/9/99	0906		X		X	1																X	SA8S034	.1
15	99Spot0173-15	5/9/99	0912		X		X	1																X	SA8S035	.1
16	99Spot0173-16	5/9/99	0918		X		X	1																X	SA8S036	.1
17	99Spot0173-17	5/9/99	0925		X		X	1																X	SA8S037	.1
18	99Spot0173-18	5/9/99	0930		X		X	1																X	SA8S038	.1
19	99Spot0173-19	5/9/99	0936		X		X	1																X	SA8S039	.1
20	99Spot0173-20	5/9/99	0942		X		X	1																X	SA8S040	.1
21	99Spot0173-21	5/9/99	0950		X		X	1																X	SA8S041	.1
22	99Spot0173-26	5/9/99	0800		X		X	1		1	1													X	Duplicate 99Spot0173-1	.1
23	99Spot0173-27	5/9/99	1300		X		X	3						1											SA-17 VOC 8021/5035	.3
24	99Spot0173-28	5/9/99	1310		X		X	1							1										SA-17 RCRA-8 Metals	.2
																									S	

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
R W Pope	5/9/99	1600					
Relinquished by:	Date:	Time:	Received by lab by:	Date:	Time:	Remarks:	
			P. Maher	5/9	10:00		

White = sam... lector Yellow = file Pink = with report

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1999

Sample ID	: 99SPORT0184-3
Lab ID	: 9905531-03
Matrix	: Soil
Date Collected	: 05/14/99
Date Received	: 05/17/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic	U	ND	2170	2380	ug/kg	10.	MBL	05/18/99	0939	149233	1
The following prep procedures were performed:											
TRACE							FGD	05/17/99	1900	149233	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905531-03

NPWC00197

CHAIN OF CUSTODY RECORD

9905531.

General Engineering Laboratories, Inc.
2040 Savage Road
Charleston, South Carolina 29407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Page 1 of 1

Client Name/Facility Name: McCoy Orlando NTC

Collected By/Company: Env Det Chas

	SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify, Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	PAH	Arsenic	Remarks
01	99Spot0184-1	5/14/99	1120		X		X	1																X		SA17503143 2 SA17S034@60' .1
02	99Spot0184-2	5/14/99	1520		X		X	1																	X	99Spot0175-1 +2 SA35SA65@20' .2
03	99Spot0184-3	5/14/99	1620		X		X	1																	X	99Spot0173-16 SA85055@10' .2

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

40301

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
RW Cole	5/14/99	1745					
Relinquished by:	Date:	Time:	Received by lab by:	Date:	Time:	Remarks:	
			P. Nower	5/17/99	08:30		

White = sa ollector Yellow = file Pink = with report

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 13, 1999

Sample ID : 99SPORT0174-1
Lab ID : 9905275-01
Matrix : Soil
Date Collected : 05/09/99
Date Received : 05/10/99
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic		6400	441	485	ug/kg	2.0	MBL	05/11/99	1353	148767	
The following prep procedures were performed:											
TRACE							AJM	05/10/99	1800	148767	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905275-01

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 13, 1999

Sample ID	: 99SPORT0174-2
Lab ID	: 9905275-02
Matrix	: Soil
Date Collected	: 05/09/99
Date Received	: 05/10/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic		4800	438	481	ug/kg	2.0	MBL	05/11/99	1359	148767	1
The following prep procedures were performed:											
TRACE							AJM	05/10/99	1800	148767	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905275-02

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 13, 1999

Sample ID	: 99SPORT0174-3
Lab ID	: 9905275-03
Matrix	: Soil
Date Collected	: 05/09/99
Date Received	: 05/10/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic		908	433	476	ug/kg	2.0	MBL	05/11/99	1405	148767	1
The following prep procedures were performed:											
TRACE							AJM	05/10/99	1800	148767	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

eviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905275-03

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 13, 1999

Sample ID	: 99SPORT0174-4
Lab ID	: 9905275-04
Matrix	: Soil
Date Collected	: 05/09/99
Date Received	: 05/10/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
rsenic		671	430	472	ug/kg	2.0	MBL	05/11/99	1411	148767	
The following prep procedures were performed:											
TRACE							AJM	05/10/99	1800	148767	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905275-04

NPWC0017 1

General Engineering Laboratories, Inc.
2040 Savage Road
Charleston, South Ca 9407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

CHAIN OF CUSTODY RECORD

Page 1 of 1

9705275

Client Name/Facility Name: NTC Orlando

Collected by/Company: Env Det Chas

	SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	Remarks
1-	99Spot0174-1	5/9/99	1010		X		X	1	SA85042
2-	99Spot0174-2	5/9/99	1014		X		X	1	SA85043
3-	99Spot0174-3	5/9/99	1018		X		X	1	SA85044
4-	99Spot0174-4	5/9/99	1023		X		X	1	SA85045
									Separate Grid in Back Approx 10'x10'

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method Required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Hi Sen IC
															X
															X
															X
															X

Use P or F in the boxes to indicate whether sample was filtered and/or preserved

40140

Relinquished by:	Date:	Time:	Received by:
K W Cole	5/9/99	1600	
Relinquished by:	Date:	Time:	Received by lab by:
			P. McCall

Relinquished by:	Date:	Time:	Received by:
Date: 5-10-99	Time: 10:00	Remarks:	

White = ...le collector Yellow = file Pink = with report

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 14, 1999

Sample ID	: 99SPORT0175-7
Lab ID	: 9905315-07
Matrix	: Soil
Date Collected	: 05/10/99
Date Received	: 05/11/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic	U	ND	425	467	ug/kg	2.0	MBL	05/12/99	1115	148886	1
The following prep procedures were performed:											
TRACE							FGD	05/11/99	2000	148886	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905315-07

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 14, 1999

Sample ID	: 99SPORT0175-8
Lab ID	: 9905315-08
Matrix	: Soil
Date Collected	: 05/10/99
Date Received	: 05/11/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic	U	ND	430	472	ug/kg	2.0	MBL	05/12/99	1121	148886	
The following prep procedures were performed:											
TRACE							FGD	05/11/99	2000	148886	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905315-08

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 14, 1999

Sample ID	: 99SPORT0175-9
Lab ID	: 9905315-09
Matrix	: Soil
Date Collected	: 05/10/99
Date Received	: 05/11/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic	U	ND	438	481	ug/kg	2.0	MBL	05/12/99	1139	148886	
The following prep procedures were performed:											
TRACE							FGD	05/11/99	2000	148886	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

:viewed By

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 14, 1999

Sample ID	: 99SPORT0175-10
Lab ID	: 9905315-10
Matrix	: Soil
Date Collected	: 05/10/99
Date Received	: 05/11/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic	U	ND	455	500	ug/kg	2.0	MBL	05/12/99	1145	148886	1
The following prep procedures were performed:											
TRACE							FGD	05/11/99	2000	148886	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905315-10

NPWC00197 99(3150

CHAIN OF CUSTODY RECORD

General Engineering Lab[illegible]s, Inc.
2040 Savage Road
Charleston, South Carol[illegible]407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Page 1 of 1

Client Name/Facility Name: NTC Orlando

Collected by/Company: Env Det Chasn

	SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Arsenic	Remarks
-01	99Sport0175-1	5/10/99	1720		X		X	1																X	SA35SA54
-02	99Sport0175-2	5/10/99	1725		X		X	1																X	SA35SA55
-03	99Sport0175-3	5/10/99	1730		X		X	1																X	SA35SHB56
-04	99Sport0175-4	5/10/99	1735		X		X	1																X	SA35SHB57
-05	99Sport0175-5	5/10/99	1740		X		X	1																X	SA35SI58
-06	99Sport0175-6	5/10/99	1745		X		X	1																X	SA35SI59
-07	99Sport0175-7	5/10/99	1755		X		X	1																X	SA85046
-08	99Sport0175-8	5/10/99	1800		X		X	1																X	SA85047
-09	99Sport0175-9	5/10/99	1805		X		X	1																X	SA85048
-10	99Sport0175-10	5/10/99	1810		X		X	1																X	SA85049
																									2½' from Stake

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

40172

Remarks

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
R W Cope	5/10/99	1900					
Relinquished by:	Date:	Time:	Received by lab by:	Date:	Time:	Remarks:	
			Christand Kamdoc	5-11-99	0700		

White = [illegible] collector Yellow = file Pink = with report

Client: Environmental Detachment Charleston

Address: 1899 N. Hobson Ave
Charleston, SC 29405-2106

Report #: OR6394
Date Submitted: 27-Apr-99
Date Reported: 5-May-99
Project Name: NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6394-5	SA9-5	4/27/99 13:35	8081	alpha-BHC	2.3	U		µg/Kg	1.9	1.9
OR6394-5	SA9-5	4/27/99 13:35	8081	beta-BHC	2.3	U		µg/Kg	1.9	1.9
OR6394-5	SA9-5	4/27/99 13:35	8081	gamma-BHC (Lindane)	2.2	U		µg/Kg	1.9	1.5
OR6394-5	SA9-5	4/27/99 13:35	8081	Heptachlor	2.3	U		µg/Kg	1.9	1.9
OR6394-5	SA9-5	4/27/99 13:35	8081	delta-BHC	2.3	U		µg/Kg	1.9	1.9
OR6394-5	SA9-5	4/27/99 13:35	8081	Aldrin	2.2	U		µg/Kg	1.9	0.38
OR6394-5	SA9-5	4/27/99 13:35	8081	Heptachlor Epoxide	2.2	U		µg/Kg	1.9	1.5
OR6394-5	SA9-5	4/27/99 13:35	8081	Chlordane gamma	2.3	U		µg/Kg	2.3	0.4
OR6394-5	SA9-5	4/27/99 13:35	8081	Chlordane alpha	2.2	U		µg/Kg	2.2	0.44
OR6394-5	SA9-5	4/27/99 13:35	8081	Endosulfan I	2.3	U		µg/Kg	2.2	2.2
OR6394-5	SA9-5	4/27/99 13:35	8081	4,4'-DDE	2.3	U		µg/Kg	2.2	2.2
OR6394-5	SA9-5	4/27/99 13:35	8081	Dieldrin	2.3	U		µg/Kg	2.2	2.2
OR6394-5	SA9-5	4/27/99 13:35	8081	Endrin	2.3	U		µg/Kg	2.2	2.2
OR6394-5	SA9-5	4/27/99 13:35	8081	4,4'-DDD	2.2	U		µg/Kg	2.2	1.8
OR6394-5	SA9-5	4/27/99 13:35	8081	Endosulfan II	2.3	U		µg/Kg	2.2	2.2
OR6394-5	SA9-5	4/27/99 13:35	8081	4,4'-DDT	2.3	U		µg/Kg	2.2	2.2
OR6394-5	SA9-5	4/27/99 13:35	8081	Endrin aldehyde	2.2	U		µg/Kg	2.2	1.8
OR6394-5	SA9-5	4/27/99 13:35	8081	Endosulfan sulfate	2.2	U		µg/Kg	2.2	0.89
OR6394-5	SA9-5	4/27/99 13:35	8081	Methoxychlor	13	U		µg/Kg	3	13
OR6394-5	SA9-5	4/27/99 13:35	8081	Endrin Ketone	3.1	U		µg/Kg	2.2	3.1
OR6394-5	SA9-5	4/27/99 13:35	8081	Chlordane (Total)	44	U		µg/Kg	44	2.2
OR6394-5	SA9-5	4/27/99 13:35	8081	Toxaphene	89	U		µg/Kg	89	4.4
OR6394-5	SA9-5	4/27/99 13:35	8081	Isodrin	4.4	U		µg/Kg	4.4	4.4
OR6394-5	SA9-5	4/27/99 13:35	8081	Mirex	4.4	U		µg/Kg	4.4	4.4
OR6394-5	SA9-5	4/27/99 13:35	8081	2,4,5,6-TCMX	160			%		
OR6394-5	SA9-5	4/27/99 13:35	8081	DBC	107			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6394-5	SA9-5	4/27/99 13:35	7060	Arsenic	3.2		2	mg/Kg	1.1	0.1

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6394-5	SA9-5	4/27/99 13:35	SM2540G	Percent Solids	75			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client: Environmental Detachment Charleston

Address: 1899 N. Hobson Ave
Charleston, SC 29405-2106

Report #: OR6394
Date Submitted: 27-Apr-99
Date Reported: 5-May-99
Project Name: NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6394-6	SA9-6	4/27/99 13:40	8081	alpha-BHC	2	U		µg/Kg	1.9	1.9
OR6394-6	SA9-6	4/27/99 13:40	8081	beta-BHC	2	U		µg/Kg	1.9	1.9
OR6394-6	SA9-6	4/27/99 13:40	8081	gamma-BHC (Lindane)	1.9	U		µg/Kg	1.9	1.5
OR6394-6	SA9-6	4/27/99 13:40	8081	Heptachlor	2	U		µg/Kg	1.9	1.9
OR6394-6	SA9-6	4/27/99 13:40	8081	delta-BHC	2	U		µg/Kg	1.9	1.9
OR6394-6	SA9-6	4/27/99 13:40	8081	Aldrin	1.9	U		µg/Kg	1.9	0.38
OR6394-6	SA9-6	4/27/99 13:40	8081	Heptachlor Epoxide	1.9	U		µg/Kg	1.9	1.5
OR6394-6	SA9-6	4/27/99 13:40	8081	Chlordane gamma	2	U		µg/Kg	2	0.3
OR6394-6	SA9-6	4/27/99 13:40	8081	Chlordane alpha	1.9	U		µg/Kg	1.9	0.38
OR6394-6	SA9-6	4/27/99 13:40	8081	Endosulfan I	2	U		µg/Kg	1.9	1.9
OR6394-6	SA9-6	4/27/99 13:40	8081	4,4'-DDE	2	U		µg/Kg	1.9	1.9
OR6394-6	SA9-6	4/27/99 13:40	8081	Dieldrin	2	U		µg/Kg	1.9	1.9
OR6394-6	SA9-6	4/27/99 13:40	8081	Endrin	2	U		µg/Kg	1.9	1.9
OR6394-6	SA9-6	4/27/99 13:40	8081	4,4'-DDD	1.9	U		µg/Kg	1.9	1.6
OR6394-6	SA9-6	4/27/99 13:40	8081	Endosulfan II	2	U		µg/Kg	1.9	1.9
OR6394-6	SA9-6	4/27/99 13:40	8081	4,4'-DDT	2	U		µg/Kg	1.9	1.9
OR6394-6	SA9-6	4/27/99 13:40	8081	Endrin aldehyde	1.9	U		µg/Kg	1.9	1.6
OR6394-6	SA9-6	4/27/99 13:40	8081	Endosulfan sulfate	1.9	U		µg/Kg	1.9	0.78
OR6394-6	SA9-6	4/27/99 13:40	8081	Methoxychlor	12	U		µg/Kg	2	12
OR6394-6	SA9-6	4/27/99 13:40	8081	Endrin Ketone	2.7	U		µg/Kg	1.9	2.7
OR6394-6	SA9-6	4/27/99 13:40	8081	Chlordane (Total)	39	U		µg/Kg	39	1.9
OR6394-6	SA9-6	4/27/99 13:40	8081	Toxaphene	78	U		µg/Kg	78	3.8
OR6394-6	SA9-6	4/27/99 13:40	8081	Isodrin	3.8	U		µg/Kg	3.8	3.8
OR6394-6	SA9-6	4/27/99 13:40	8081	Mirex	3.8	U		µg/Kg	3.8	3.8
OR6394-6	SA9-6	4/27/99 13:40	8081	2,4,5,6-TCMX	116			%		
OR6394-6	SA9-6	4/27/99 13:40	8081	DBC	93			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6394-6	SA9-6	4/27/99 13:40	7060	Arsenic	2		2	mg/Kg	0.9	0.1

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6394-6	SA9-6	4/27/99 13:40	SM2540G	Percent Solids	86			%		

NOTE: Analyte values are reported on a dry weight basis

U = Compound was analyzed for but not detected to the level shown

Client:	Environmental Detachment Charleston	Report #:	OR6394
		Date Submitted:	27-Apr-99
Address:		Date Reported:	5-May-99
	1899 N. Hobson Ave	Project Name:	NTC Orlando
	Charleston, SC 29405-2106		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6394-8	SA9-8	4/27/99 13:50	8081	alpha-BHC	2	U		µg/Kg	1.9	1.9
OR6394-8	SA9-8	4/27/99 13:50	8081	beta-BHC	2	U		µg/Kg	1.9	1.9
OR6394-8	SA9-8	4/27/99 13:50	8081	gamma-BHC (Lindane)	1.9	U		µg/Kg	1.9	1.5
OR6394-8	SA9-8	4/27/99 13:50	8081	Heptachlor	2	U		µg/Kg	1.9	1.9
OR6394-8	SA9-8	4/27/99 13:50	8081	delta-BHC	2	U		µg/Kg	1.9	1.9
OR6394-8	SA9-8	4/27/99 13:50	8081	Aldrin	1.9	U		µg/Kg	1.9	0.38
OR6394-8	SA9-8	4/27/99 13:50	8081	Heptachlor Epoxide	1.9	U		µg/Kg	1.9	1.5
OR6394-8	SA9-8	4/27/99 13:50	8081	Chlordane gamma	2	U		µg/Kg	2	0.3
OR6394-8	SA9-8	4/27/99 13:50	8081	Chlordane alpha	1.9	U		µg/Kg	1.9	0.38
OR6394-8	SA9-8	4/27/99 13:50	8081	Endosulfan I	2	U		µg/Kg	1.9	1.9
OR6394-8	SA9-8	4/27/99 13:50	8081	4,4'-DDE	2	U		µg/Kg	1.9	1.9
OR6394-8	SA9-8	4/27/99 13:50	8081	Dieldrin	2	U		µg/Kg	1.9	1.9
OR6394-8	SA9-8	4/27/99 13:50	8081	Endrin	2	U		µg/Kg	1.9	1.9
OR6394-8	SA9-8	4/27/99 13:50	8081	4,4'-DDD	1.9	U		µg/Kg	1.9	1.6
OR6394-8	SA9-8	4/27/99 13:50	8081	Endosulfan II	2	U		µg/Kg	1.9	1.9
OR6394-8	SA9-8	4/27/99 13:50	8081	4,4'-DDT	2	U		µg/Kg	1.9	1.9
OR6394-8	SA9-8	4/27/99 13:50	8081	Endrin aldehyde	1.9	U		µg/Kg	1.9	1.6
OR6394-8	SA9-8	4/27/99 13:50	8081	Endosulfan sulfate	1.9	U		µg/Kg	1.9	0.78
OR6394-8	SA9-8	4/27/99 13:50	8081	Methoxychlor	12	U		µg/Kg	2	12
OR6394-8	SA9-8	4/27/99 13:50	8081	Endrin Ketone	2.7	U		µg/Kg	1.9	2.7
OR6394-8	SA9-8	4/27/99 13:50	8081	Chlordane (Total)	39	U		µg/Kg	39	1.9
OR6394-8	SA9-8	4/27/99 13:50	8081	Toxaphene	78	U		µg/Kg	78	3.8
OR6394-8	SA9-8	4/27/99 13:50	8081	Isodrin	3.8	U		µg/Kg	3.8	3.8
OR6394-8	SA9-8	4/27/99 13:50	8081	Mirex	3.8	U		µg/Kg	3.8	3.8
OR6394-8	SA9-8	4/27/99 13:50	8081	2,4,5,6-TCMX	116			%		
OR6394-8	SA9-8	4/27/99 13:50	8081	DBC	93			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6394-8	SA9-8	4/27/99 13:50	7060	Arsenic	0.9	U	2	mg/Kg	0.9	0.1

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6394-8	SA9-8	4/27/99 13:50	SM2540G	Percent Solids	86			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client: Environmental Detachment Charleston

Address: 1899 N. Hobson Ave
Charleston, SC 29405-2106

Report #: OR6394
Date Submitted: 27-Apr-99
Date Reported: 5-May-99
Project Name: NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6394-9	SA9-9	4/27/99 13:55	8081	alpha-BHC	1.8	U		µg/Kg	1.9	1.9
OR6394-9	SA9-9	4/27/99 13:55	8081	beta-BHC	1.8	U		µg/Kg	1.9	1.9
OR6394-9	SA9-9	4/27/99 13:55	8081	gamma-BHC (Lindane)	1.8	U		µg/Kg	1.9	1.5
OR6394-9	SA9-9	4/27/99 13:55	8081	Heptachlor	1.8	U		µg/Kg	1.9	1.9
OR6394-9	SA9-9	4/27/99 13:55	8081	delta-BHC	1.8	U		µg/Kg	1.9	1.9
OR6394-9	SA9-9	4/27/99 13:55	8081	Aldrin	1.8	U		µg/Kg	1.9	0.38
OR6394-9	SA9-9	4/27/99 13:55	8081	Heptachlor Epoxide	1.8	U		µg/Kg	1.9	1.5
OR6394-9	SA9-9	4/27/99 13:55	8081	Chlordane gamma	29			µg/Kg	1.8	0.3
OR6394-9	SA9-9	4/27/99 13:55	8081	Chlordane alpha	18			µg/Kg	1.8	0.36
OR6394-9	SA9-9	4/27/99 13:55	8081	Endosulfan I	1.8	U		µg/Kg	1.8	1.8
OR6394-9	SA9-9	4/27/99 13:55	8081	4,4'-DDE	1.8	U		µg/Kg	1.8	1.8
OR6394-9	SA9-9	4/27/99 13:55	8081	Dieldrin	1.8	U		µg/Kg	1.8	1.8
OR6394-9	SA9-9	4/27/99 13:55	8081	Endrin	1.8	U		µg/Kg	1.8	1.8
OR6394-9	SA9-9	4/27/99 13:55	8081	4,4'-DDD	1.8	U		µg/Kg	1.8	1.4
OR6394-9	SA9-9	4/27/99 13:55	8081	Endosulfan II	1.8	U		µg/Kg	1.8	1.8
OR6394-9	SA9-9	4/27/99 13:55	8081	4,4'-DDT	1.8	U		µg/Kg	1.8	1.8
OR6394-9	SA9-9	4/27/99 13:55	8081	Endrin aldehyde	1.8	U		µg/Kg	1.8	1.4
OR6394-9	SA9-9	4/27/99 13:55	8081	Endosulfan sulfate	1.8	U		µg/Kg	1.8	0.73
OR6394-9	SA9-9	4/27/99 13:55	8081	Methoxychlor	11	U		µg/Kg	2	11
OR6394-9	SA9-9	4/27/99 13:55	8081	Endrin Ketone	2.5	U		µg/Kg	1.8	2.5
OR6394-9	SA9-9	4/27/99 13:55	8081	Chlordane (Total)	600			µg/Kg	36	1.8
OR6394-9	SA9-9	4/27/99 13:55	8081	Toxaphene	72	U		µg/Kg	72	3.6
OR6394-9	SA9-9	4/27/99 13:55	8081	Isodrin	3.6	U		µg/Kg	3.6	3.6
OR6394-9	SA9-9	4/27/99 13:55	8081	Mirex	3.6	U		µg/Kg	3.6	3.6
OR6394-9	SA9-9	4/27/99 13:55	8081	2,4,5,6-TCMX	130			%		
OR6394-9	SA9-9	4/27/99 13:55	8081	DBC	109			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6394-9	SA9-9	4/27/99 13:55	7060	Arsenic	0.9	U	2	mg/Kg	0.9	0.1

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6394-9	SA9-9	4/27/99 13:55	SM2540G	Percent Solids	92			%		

NOTE: Analyte values are reported on a dry weight basis.

U = Compound was analyzed for but not detected to the level shown.

Client: Environmental Detachment Charleston

Address: 1899 N. Hobson Ave
Charleston, SC 29405-2106

Report #: OR6394
Date Submitted: 27-Apr-99
Date Reported: 5-May-99
Project Name: NTC Orlando

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6394-10	SA9-10	4/27/99 14:00	8081	alpha-BHC	2	U		µg/Kg	1.9	1.9
OR6394-10	SA9-10	4/27/99 14:00	8081	beta-BHC	2	U		µg/Kg	1.9	1.9
OR6394-10	SA9-10	4/27/99 14:00	8081	gamma-BHC (Lindane)	1.9	U		µg/Kg	1.9	1.5
OR6394-10	SA9-10	4/27/99 14:00	8081	Heptachlor	2	U		µg/Kg	1.9	1.9
OR6394-10	SA9-10	4/27/99 14:00	8081	delta-BHC	2	U		µg/Kg	1.9	1.9
OR6394-10	SA9-10	4/27/99 14:00	8081	Aldrin	1.9	U		µg/Kg	1.9	0.38
OR6394-10	SA9-10	4/27/99 14:00	8081	Heptachlor Epoxide	1.9	U		µg/Kg	1.9	1.5
OR6394-10	SA9-10	4/27/99 14:00	8081	Chlordane gamma	3.8			µg/Kg	2	0.3
OR6394-10	SA9-10	4/27/99 14:00	8081	Chlordane alpha	3.8			µg/Kg	1.9	0.38
OR6394-10	SA9-10	4/27/99 14:00	8081	Endosulfan I	2	U		µg/Kg	1.9	1.9
OR6394-10	SA9-10	4/27/99 14:00	8081	4,4'-DDE	2	U		µg/Kg	1.9	1.9
OR6394-10	SA9-10	4/27/99 14:00	8081	Dieldrin	2	U		µg/Kg	1.9	1.9
OR6394-10	SA9-10	4/27/99 14:00	8081	Endrin	2	U		µg/Kg	1.9	1.9
OR6394-10	SA9-10	4/27/99 14:00	8081	4,4'-DDD	1.9	U		µg/Kg	1.9	1.5
OR6394-10	SA9-10	4/27/99 14:00	8081	Endosulfan II	2	U		µg/Kg	1.9	1.9
OR6394-10	SA9-10	4/27/99 14:00	8081	4,4'-DDT	2	U		µg/Kg	1.9	1.9
OR6394-10	SA9-10	4/27/99 14:00	8081	Endrin aldehyde	1.9	U		µg/Kg	1.9	1.5
OR6394-10	SA9-10	4/27/99 14:00	8081	Endosulfan sulfate	1.9	U		µg/Kg	1.9	0.77
OR6394-10	SA9-10	4/27/99 14:00	8081	Methoxychlor	11	U		µg/Kg	2	11
OR6394-10	SA9-10	4/27/99 14:00	8081	Endrin Ketone	2.6	U		µg/Kg	1.9	2.7
OR6394-10	SA9-10	4/27/99 14:00	8081	Chlordane (Total)	70			µg/Kg	38	1.9
OR6394-10	SA9-10	4/27/99 14:00	8081	Toxaphene	77	U		µg/Kg	77	3.8
OR6394-10	SA9-10	4/27/99 14:00	8081	Isodrin	3.8	U		µg/Kg	3.8	3.8
OR6394-10	SA9-10	4/27/99 14:00	8081	Mirex	3.8	U		µg/Kg	3.8	3.8
OR6394-10	SA9-10	4/27/99 14:00	8081	2,4,5,6-TCMX	115			%		
OR6394-10	SA9-10	4/27/99 14:00	8081	DBC	92			%		

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6394-10	SA9-10	4/27/99 14:00	7060	Arsenic	0.9	U	2	mg/Kg	0.9	0.1

SAMPLE ID	CLIENT ID	COLLECT DATE	METHOD	PARAMETER	RESULT	QUAL	DIL	UNITS	RDL	MDL
OR6394-10	SA9-10	4/27/99 14:00	SM2540G	Percent Solids	87			%		

NOTE: Analyte values are reported on a dry weight basis

U = Compound was analyzed for but not detected to the level shown.

QS(# ____

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
NTC Orlando		

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE	FAX
FL	Rusty Cole	296-2173	

CLIENT NAME	CLIENT PROJECT MANAGER
ENV DET CHAS	A Moyer

CLIENT ADDRESS (CITY, STATE, ZIP): 1899 N Hobson Ave N Chas SC 29405

MATRIX TYPE: SURFACE WATER; GROUND WATER; WASTEWATER; DRINKING WATER; SOIL/SOLID/SEDIMENT; NONAQUEOUS LIQUID (oil, solvent, etc.); AIR; SLUDGE; OTHER

REQUIRED ANALYSIS: Arsenic; Pesticides

PAGE ____ OF ____

☐ STANDARD REPORT DELIVERY

☐ EXPEDITED REPORT DELIVERY (surcharge)

Date Due: ____

STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	SOIL/SOLID/SEDIMENT	OTHER	NUMBER OF CONTAINERS SUBMITTED	Arsenic	Pesticides	REMARKS
1	4/27/99	1			SA9S00	X		1	X		
2		1315	X		SA9-1	X		1	X		
3		1320	X		SA9-2	X		1	X		
4		1325	X		SA9-3	X		1	X		
5		1330	X		SA9-4	X		1	X		
6		1335	X		SA9-5	X		1	X		
7		1340	X		SA9-6	X		1	X		
8		1344	X		SA9-7	X		1	X		
9		1350	X		SA9-8	X		1	X		
10		1355	X		SA9-9	X		1	X		
11		1400	X		SA9-10	X		1	X		
12		1350	X		SA9C8	X		1	X		Dup.
13											
14											

SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
RELINQUISHED BY: (SIGNATURE) K W Cole	4/27/99	1530	RECEIVED BY: (SIGNATURE) James W. Gregory	4/27/99	1530	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) ☐ Jacksonville ☐ Orlando	DATE	TIME	CUSTODY INTACT ☐ YES ☐ NO	ENCO LOG NO.	REMARKS
T. Pict n	4279	17.00		ORG 1	

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 14, 1999

Sample ID : 99SPORT0172-1
Lab ID : 9905240-01
Matrix : Soil
Date Collected : 05/06/99
Date Received : 05/07/99
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Pesticides - 21 items											
4,4'-DDD	U	ND	2.94	6.56	ug/kg	5.0	SJ	05/12/99	0339	148661	1
4,4'-DDE	J	4.36	2.74	6.56	ug/kg	5.0					
4,4'-DDT	U	ND	3.97	6.56	ug/kg	5.0					
Aldrin	U	ND	1.30	3.28	ug/kg	5.0					
Dieldrin	U	ND	3.66	6.56	ug/kg	5.0					
Endosulfan I	U	ND	2.26	3.28	ug/kg	5.0					
Endosulfan II	U	ND	3.39	6.56	ug/kg	5.0					
Endosulfan sulfate	U	ND	4.54	4.54	ug/kg	5.0					
Endrin	U	ND	3.39	6.56	ug/kg	5.0					
Endrin aldehyde	U	ND	4.95	6.56	ug/kg	5.0					
Endrin ketone	U	ND	4.02	6.56	ug/kg	5.0					
Heptachlor	U	ND	2.16	3.28	ug/kg	5.0					
Heptachlor epoxide	U	ND	1.08	3.28	ug/kg	5.0					
Methoxychlor	U	ND	17.7	32.8	ug/kg	5.0					
Toxaphene	U	ND	54.5	164	ug/kg	5.0					
alpha-BHC	U	ND	1.31	3.28	ug/kg	5.0					
alpha-Chlordane		21.2	2.20	3.28	ug/kg	5.0					
beta-BHC	U	ND	1.94	3.28	ug/kg	5.0					
delta-BHC	U	ND	1.41	3.28	ug/kg	5.0					
gamma-BHC	U	ND	1.74	3.28	ug/kg	5.0					
gamma-Chlordane		27.1	2.33	3.28	ug/kg	5.0					

The following prep procedures were performed:

Pesticides RDH 05/10/99 1200 148661

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 14, 1999

Sample ID : 99SPORT0172-1

Surrogate Recovery	Test	Percent%	Acceptable Limits
4CMX	PEST-8081A	72.5	(36.5 - 131.)
Decachlorobiphenyl	PEST-8081A	78.2	(50.7 - 135.)

M = Method	Method-Description
M 1	EPA 8081A
1 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905240-01

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 11, 1999

Sample ID	: 99SPORT0172-2
Lab ID	: 9905240-02
Matrix	: Soil
Date Collected	: 05/06/99
Date Received	: 05/07/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
senic	U	ND	425	467	ug/kg	2.0	MBL	05/10/99	1407	148650	1
The following prep procedures were performed:											
TRACE							FGD	05/10/99	1000	148650	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905240-02

1PWC00197

CHAIN OF CUSTODY RECORD

9905240

2040 Savage Road
Charleston, South Carol .07
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Client Name/Facility Name: NTC Orlando

Collected by/Company: Env Det Chas

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

3 Days 40090 Turnaround

	SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide 8081	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Arsenic 7060	PAH 8270	Remarks	
-01	99Sport0172-1	5/6/99	1350		X		X	1								X										SA9-11	.1
-02	99Sport0172-2	5/6/99	1352		X		X	1																X		SA9-12 1	.2
-03	99Sport0172-3	5/6/99	1615		X		X	1																	X	SA40S050	.3
-04	99Sport0172-4	5/6/99	1620		X		X	1																	X	SA40S051	.3
-05	99Sport0172-5	5/6/99	1625		X		X	1																	X	SA40S052	.3
-06	99Sport0172-6	5/6/99	1632		X		X	1																	X	SA40S053	.3
-07	99Sport0172-7	5/6/99	1640		X		X	1																	X	SA40S054	.3
-08	99Sport0172-8	5/6/99	1645		X		X	1																	X	SA40S055	.3
-09	99Sport0172-9	5/6/99	1652		X		X	1																	X	SA40S056	.3
-10	99Sport0172-10	5/6/99	1617		X		X	1																X		SA40S057	.2
-11	99Sport0172-11	5/6/99	1622		X		X	1																X		SA40S058	.2
-12	99Sport0172-12	5/6/99	1627		X		X	1																X		SA40S059	.2
-13	99Sport0172-13	5/6/99	1634		X		X	1																X		SA40S060	.2

Relinquished by:	Date:	Time:	Received by:
K W Cope	5/6/99	1845	
Relinquished by:	Date:	Time:	Received by lab by:
			T. Mauk

Relinquished by:	Date:	Time:	Remarks:
	5-7-99	10:30	

White = sample collector Yellow = file Pink = with report

VWC00171

General Engineering Lab[illegible]ries, Inc.
2040 Savage Road
Charleston, South Carol[illegible]407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

CHAIN OF CUSTODY RECORD

Page 2 of 2

9905240%

Client Name/Facility Name: NTC ORLando

Collected by/Company: Env DET CHAS

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Arsenic ICP	Remarks
-14 99Sport0172-14	5/6/99	1643	X		X		1																X	SA40S061 .2
-15 99Sport0172-15	5/6/99	1648	X		X		1																X	SA40S062 .2
-16 99Sport0172-16	5/6/99	1655	X		X		1																X	SA40S063 .2

40090

3 DAY TURNAROUND

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

Remarks

Relinquished by:	Date:	Time:	Received by:
K W Pope	5/6/99	1845	
Relinquished by:	Date:	Time:	Received by lab by:
			P. Power

Relinquished by:	Date:	Time:	Received by:
Date: 5-7-99	Time: 10:30	Remarks:	

White [illegible]le collector Yellow = file Pink = with report

WASTE CHARACTERIZATION

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8745
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: April 02, 1999

Sample ID	: 99 SPORT0140-1
Lab ID	: 9903921-01
Matrix	: TCLP
Date Collected	: 03/18/99
Date Received	: 03/25/99
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Mercury	U	ND	0.000350	0.0200	mg/l	1.0	RMJ	03/31/99	1321	145698	1
Silver	J	14.8	7.30	50.0	ug/l	10.	MBL	03/31/99	1141	145709	2
Arsenic		207	45.1	50.0	ug/l	10.					
Barium		139	5.10	50.0	ug/l	10.					
Cadmium	J	18.7	4.40	50.0	ug/l	10.					
Chromium	J	14.5	5.60	50.0	ug/l	10.					
Lead		217	15.9	50.0	ug/l	10.					
Selenium	U	ND	27.1	50.0	ug/l	10.					

The following prep procedures were performed:

Mercury	RMJ	03/30/99	1820	145698	3
TCLP Prep for Metals	JJ	03/29/99	1720	145549	4

M = Method	Method-Description
M 1	EPA 7470
M 2	EPA 6010A
M 3	EPA 7470A
M 4	EPA 1311

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29414
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9903921-01

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: April 02, 1999

Sample ID : 99 SPORT0140-1

M = Method	Method-Description

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29414
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9903921-01

QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Lab. Sample ID: 9903921-01 Report Date: April 02, 1999

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
Metals Analysis													
QC598196	BLANK	145698											
Mercury						0.000253	mg/l				RMJ	03/31/99	1314
QC598197	BLANK	145698											
Mercury						-0.000104	mg/l				RMJ	03/31/99	1316
QC598199	LCS	145698											
Mercury			0.02			0.0208	mg/l		104	(81.5 - 124.)	RMJ	03/31/99	1318
QC598237	BLANK	145709											
Arsenic						1.61	ug/l				MBL	03/31/99	1118
Barium						0.129	ug/l						
Cadmium						-0.0610	ug/l						
Chromium						0.221	ug/l						
Lead						0.358	ug/l						
Selenium						0.179	ug/l						
Silver						0.974	ug/l						
QC598238	BLANK	145709											
Arsenic						4.90	ug/l				MBL	03/31/99	1124
Barium						0.959	ug/l						
Cadmium						-0.299	ug/l						
Chromium						0.647	ug/l						
Lead						1.38	ug/l						
Selenium						3.61	ug/l						
Silver						1.40	ug/l						
QC598239	LCS	145709											
Arsenic			5000			4910	ug/l		98.2	(89.5 - 112.)	MBL	03/31/99	1129
Barium			10000			9780	ug/l		97.8	(90.7 - 111.)			
Cadmium			1000			1010	ug/l		101	(90.7 - 115.)			
Chromium			5000			4990	ug/l		99.9	(90.0 - 112.)			
Lead			5000			5020	ug/l		100	(89.3 - 114.)			
Selenium			1000			921	ug/l		92.1	(87.2 - 109.)			
Silver			500			505	ug/l		101	(90.9 - 116.)			

Notes:
The qualifiers in this report are defined as follows:
J indicates presence of analyte < RL (Report Limit)
U indicates presence of analyte < DL (Detect Limit)

/a indicates that spike recovery limits do not apply when sample concentration exceeds spike conc by a factor of 4 or more

GENERAL ENGINEERING LABORATORIES
PO Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(803) 556-8171 • Fax (803) 766-1178

Printed on recycled paper.

General Engineering Lab[illegible]es, Inc.
2040 Savage Road
Charleston, South Carol[illegible]407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

CHAIN OF CUSTODY RECORD

Page 1 of 1

Client Name/Facility Name: SPORTENVDETCHASN

Collected by/Company: SPORTENVDETCHASN

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	TCLP - RCRA METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type			Remarks
995PORTØ14Ø-1	3/18/99	1315		X	X		1							X											SA-8 ORLANDO 085025

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
Alan J Mayo	3/25/99	0955	W. R. Hiers, Jr.	W. R. Hiers, Jr.	3/25/99	1535	Sophronie Bedenbaugh
Relinquished by:	**Date:**	**Time:**	**Received by lab by:**	**Date:**	**Time:**	**Remarks:**	

White ple collector Yellow = file Pink = with report

RESULTS OF ANALYSIS

EPA METHOD 1311/8080 - TCLP PESTICIDES	SA-35015	SA-80001	Units
Chlordane (Total)	NR	1.0 U	µg/L
Endrin	NR	0.050 U	µg/L
Heptachlor	NR	0.050 U	µg/L
Heptachlor Epoxide	NR	0.050 U	µg/L
gamma-BHC (Lindane)	NR	0.050 U	µg/L
Methoxychlor	NR	1.0 U	µg/L
Toxaphene	NR	2.0 U	µg/L
Surrogate:		**% RECOV**	**LIMITS**
2,4,5,6-TCMX		80	30-150
		80	34-138
e Extracted		04/28/99	
Date Analyzed		04/29/99	

Analysis not requested for this sample.
Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

TCLP METALS	METHOD	SA-35015	SA-80001	Units
TCLP Arsenic	1311/7060	0.050 U	**0.060**	mg/L
Date Analyzed		04/23/99	04/23/99	
TCLP Barium	1311/7080	2.0 U	2.0 U	mg/L
Date Analyzed		04/23/99	04/23/99	
TCLP Cadmium	1311/7130	0.10 U	0.10 U	mg/L
Date Analyzed		04/23/99	04/23/99	
TCLP Chromium	1311/7190	0.50 U	0.50 U	mg/L
Date Analyzed		04/23/99	04/23/99	
TCLP Lead	1311/7420	0.50 U	**0.50**	mg/L
Date Analyzed		04/23/99	04/23/99	
TCLP Mercury	1311/7470	0.0050 U	0.0050 U	mg/L
Date Analyzed		04/26/99	04/26/99	
TCLP Selenium	1311/7740	0.050 U	0.050 U	mg/L
Date Analyzed		04/25/99	04/25/99	
TCLP Silver	1311/7760	0.20 U	0.20 U	mg/L
Date Analyzed		04/23/99	04/23/99	

U Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 1311/8080 - TCLP PESTICIDES	SA-80002	SA-80003	Units
Chlordane (Total)	1.0 U	1.0 U	µg/L
Endrin	0.050 U	0.050 U	µg/L
Heptachlor	0.050 U	0.050 U	µg/L
Heptachlor Epoxide	0.050 U	0.050 U	µg/L
gamma-BHC (Lindane)	0.050 U	0.050 U	µg/L
Methoxychlor	1.0 U	1.0 U	µg/L
Toxaphene	2.0 U	2.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
2,4,5,6-TCMX	80	100	30-150
	60	80	34-138
Date Extracted	04/28/99	04/28/99	
Date Analyzed	04/29/99	04/29/99	

Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

TCLP METALS	METHOD	SA-80002	SA-80003	Units
TCLP Arsenic	1311/7060	**0.14**	0.050 U	mg/L
Date Analyzed		04/23/99	04/23/99	
TCLP Barium	1311/7080	2.0 U	2.0 U	mg/L
Date Analyzed		04/23/99	04/23/99	
TCLP Cadmium	1311/7130	0.10 U	0.10 U	mg/L
Date Analyzed		04/23/99	04/23/99	
TCLP Chromium	1311/7190	0.50 U	0.50 U	mg/L
Date Analyzed		04/23/99	04/23/99	
? Lead	1311/7420	0.50 U	0.50 U	mg/L
Date Analyzed		04/23/99	04/23/99	
TCLP Mercury	1311/7470	0.0050 U	0.0050 U	mg/L
Date Analyzed		04/26/99	04/26/99	
TCLP Selenium	1311/7740	0.050 U	0.050 U	mg/L
Date Analyzed		04/25/99	04/25/99	
TCLP Silver	1311/7760	0.20 U	0.20 U	mg/L
Date Analyzed		04/23/99	04/23/99	

Compound was analyzed for but not detected to the level shown.

ENVIRONMENTAL CONSERVATION LABORATORIES

QSARF #_____

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: NTC Orlando | PROJECT NO. | P.O. NUMBER

PROJECT LOC. (State): FL | SAMPLER(s) NAME: R. Cope | PHONE 496-2173 | FAX 851-5468

CLIENT NAME: ENV DET CHASN | CLIENT PROJECT MANAGER: Residence Inn

CLIENT ADDRESS (CITY, STATE, ZIP): 1899 N. Hobson Ave N. Charleston, S.C 29405

PAGE | OF

☐ STANDARD REPORT DELIVERY

☐ EXPEDITED REPORT DELIVERY (surcharge)

Date Due:_____

STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	MATRIX TYPE: SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (OIL, SOLVENT, ETC.)	AIR	SLUDGE	OTHER	REQUIRED ANALYSIS: TCLP Metals	TCLP Pesticides	NUMBER OF CONTAINERS SUBMITTED	REMARKS
1	4/20/99	1450	X		SA-35009					✓					X		1	
2	4/20/99	1505	X		SA 35013					✓					X		1	
3	4/20/99	1540	X		SA-35015					✓					X		1	
4	4/20/99	1640		X	SA-80001					✓					1	X	1	TCLP Pesticides Requested on 4-28-99. 5 locations Area A
5	4/20/99	1700		X	SA-80002					✓					1	X	1	5 locations Area B
6	4/20/99	1720		X	SA-80003					✓					1	X	1	5 locations Area C
7	4/21/99	1010	X		SA-42002					✓					1			
8	4/21/99	1022	X		SA-42001					✓					1			
9	4/21/99	1120	X		SA-23005					✓					1			
10	4/21/99	1145		X	SA-18008					✓						1		McCoy Anex
11	4/21/99	1201		X	SA-17035					✓						1		" 5 locations
12																1		" 5 locations
13																		
14																		

SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	4/21/99	1240	K W Pope					
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	4/21/99	1240	David J. Henry					
RECEIVED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS
Kevin C ☐ Jacksonville ☒ Orlando	4/21/99	12:40PM	☐ YES ☒ NO	OR63:	

OPERABLE UNIT 4

1. INTRODUCTION

1.1 OPERABLE UNIT 4

OU4 is located near Building 1100 off of Port Hueneme Avenue on the Main Base, Naval Training Center, Orlando (Figure 1). OU4 consists of various sample points in this area. Arsenic and PAH's were detected at these sample points (Figure 1).

1.2 OU 4 INTERIM REMEDIAL ACTION

SOUTHDIV tasked the DET to perform an IRA for this site. The objective of the IRA was to excavate and dispose of soil contaminated with arsenic or PAH's. The excavation was to continue until the sampling program indicated with reasonable confidence that the concentrations of contaminants at the site were less than non-residential limits specified by FDEP SCG, dated 30 April 1998 or USEPA Region III, dated 01 October 1998, whichever specifies the stricter criteria.

1.2.1 OU 4 Interim Remedial Action Execution Summary

The execution of this IRA consisted of excavating an area approximately 10′ x 10′ to a depth of 2′ at sample locations U4S006 and U4S015 and an area approximately 10′ x 10′ to a depth of 2′ at sample location U4S011 (Figure 1). Soil removed from the site was characterized as non-hazardous and was sent to a Subtitle D landfill. Confirmation samples were collected from each sidewall testing for arsenic from sample point U4S011 (Figure 2) and for PAHs from sample points U4S0015 (Figure 3) and U4S006 (Figure 4). The results of these samples were all less than the RGOs.

2.0 INTERIM REMEDIAL ACTION EXCECUTION

2.1 ACTIONS PERFORMED BY THE INTERIM REMEDIAL ACTION WORK PLAN

Actions performed are listed below.

- Excavation and disposal of three areas approximately 10′ x 10′ x 2
- Collection of confirmatory samples from each sidewall for analysis of arsenic or PAHs
- Restoration of site by backfilling, grading to surrounding area, and seeding

2.2 OBSERVATIONS NOTES

2.2.1 Soil Conditions

From ground surface to the bottom of the excavation the soil was dark silty sand.

3.0 INTERIM REMEDIAL ACTION OUTCOME

3.1 SITE CONDITIONS FOLLOWING COMPLETION OF WORK

Following completion of work, the DET had removed 32 tons of arsenic or PAH contaminated soil. The site was backfilled, graded to surrounding area and seeded. Site photographs are included in Appendix I1.

4.0 SAMPLING

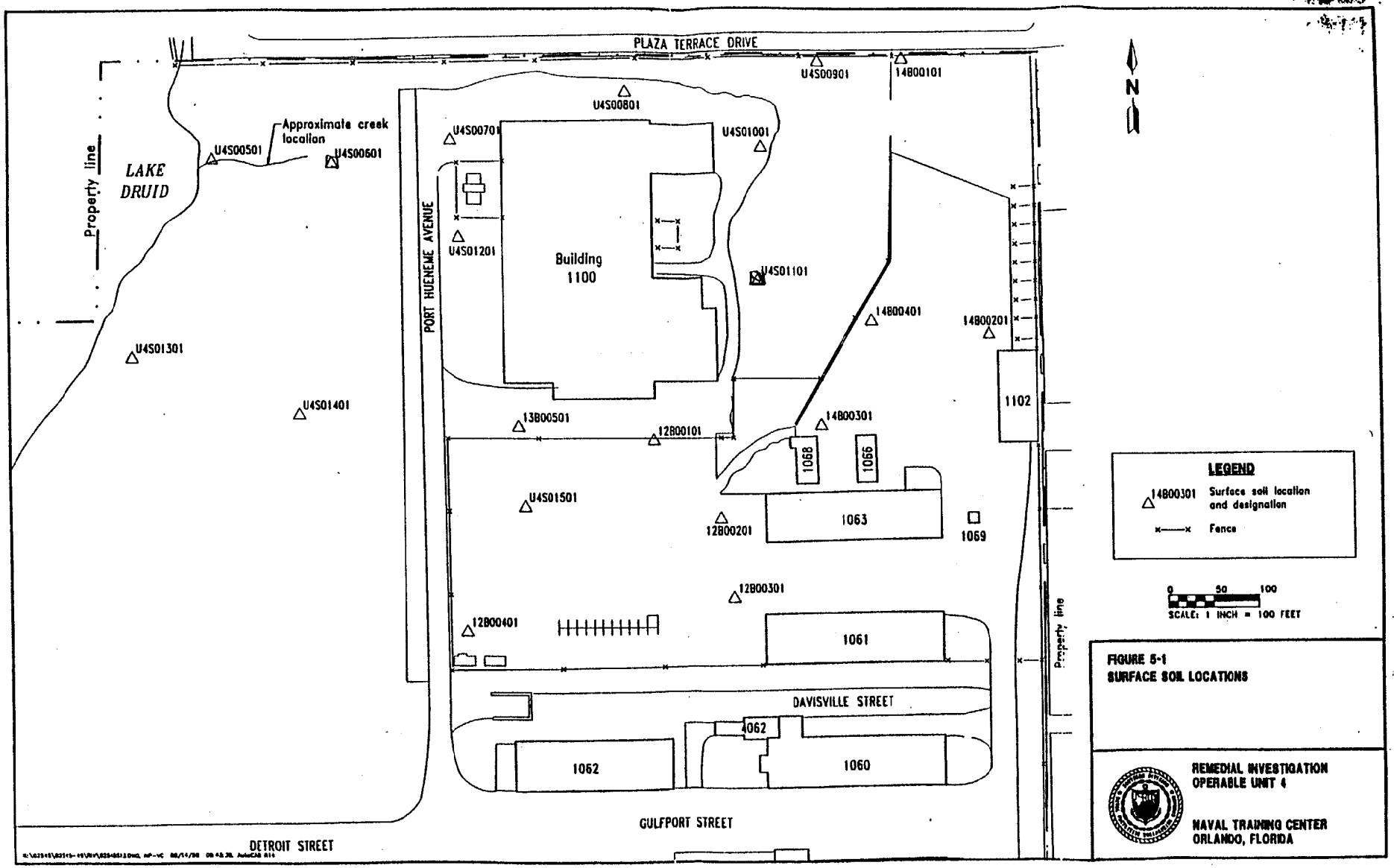
4.1 CONFIRMATION SAMPLING

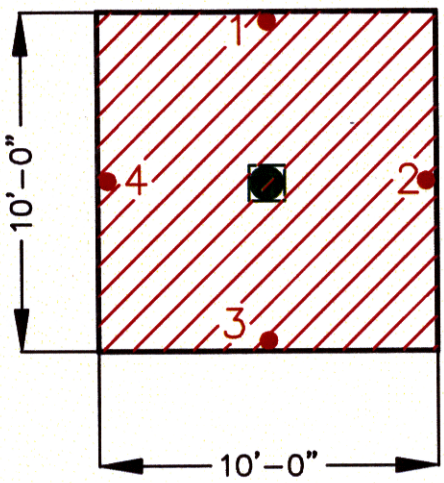
Upon completion of work a confirmation sample was collected from each sidewall testing for arsenic from sample point U4S011 (Figure 2) and testing for PAHs from sample points U4S015 (Figure 3) and U4S006 (Figure 4). See appendix I2 for sampling documentation

5.0 WASTE GENERATION

5.1 Non-Hazardous Waste

A total of 31 tons of non-hazardous PAH contaminated soil was disposed of to a permitted treatment, storage and disposal facility. Waste Manifests are in appendix I3.


PLAZA TERRACE DRIVE
U4S00901
14B00101
U4S00801
U4S00701
U4S01001
Approximate creek location
U4S00501
U4S00601
Property line
LAKE DRUID
U4S01201
Building 1100
U4S01101
PORT HUENEME AVENUE
14B00401
14B00201
1102
U4S01301
U4S01401
13B00501
12B00101
14B00301
1068
1066
U4S01501
12B00201
1063
1069
12B00301
12B00401
1061
DAVISVILLE STREET
1062
1062
1060
GULFPORT STREET
DETROIT STREET
Property line
N
LEGEND
14B00301 Surface soil location and designation
Fence
0 50 100
SCALE: 1 INCH = 100 FEET
FIGURE 5-1
SURFACE SOIL LOCATIONS
REMEDIAL INVESTIGATION
OPERABLE UNIT 4
NAVAL TRAINING CENTER
ORLANDO, FLORIDA



LEGEND

1 ● CONFIRMATORY SAMPLE ID 99SPORT0178-1

2 ● CONFIRMATORY SAMPLE ID 99SPORT0178-2

3 ● CONFIRMATORY SAMPLE ID 99SPORT0178-3

4 ● CONFIRMATORY SAMPLE ID 99SPORT0178-4

■ SAMPLE POINT U4S0011

▨ EXCAVATED TO 2 FEET DEEP

N

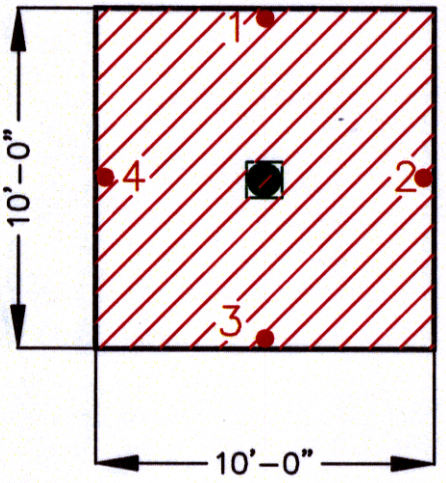
ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE - BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 2
NAVAL TRAINING CENTER CENTER ORLANDO OU 4
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS

DATE:	PREPARED BY:	REV
18 AUGUST 1999	A. J. MOYER	-

SCALE: NONE | SHEET: -

0049FB23Y



LEGEND

1 ● CONFIRMATORY SAMPLE ID 99SPORT0178-5

2 ● CONFIRMATORY SAMPLE ID 99SPORT0178-6

3 ● CONFIRMATORY SAMPLE ID 99SPORT0178-7

4 ● CONFIRMATORY SAMPLE ID 99SPORT0178-8

■ SAMPLE POINT U4S0015

▨ EXCAVATED TO 2 FEET DEEP

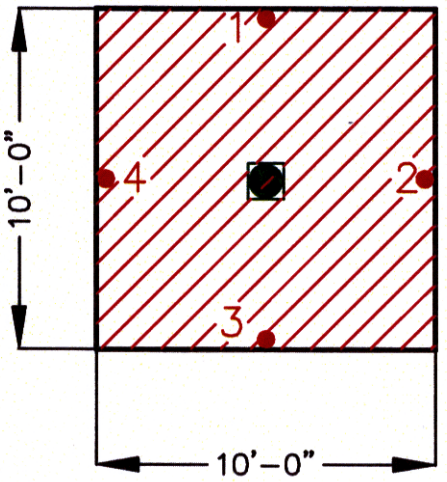
N

ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE - BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 3
NAVAL TRAINING CENTER CENTER ORLANDO OU 4
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS

DATE:	PREPARED BY:	REV
18 AUGUST 1999	A. J. MOYER	-

SCALE: NONE | SHEET: -



LEGEND

1 ● CONFIRMATORY SAMPLE ID 99SPORT0178–9

2 ● CONFIRMATORY SAMPLE ID 99SPORT0178–10

3 ● CONFIRMATORY SAMPLE ID 99SPORT0178–11

4 ● CONFIRMATORY SAMPLE ID 99SPORT0178–12

■ SAMPLE POINT U4S006

▨ EXCAVATED TO 2 FEET DEEP

N

ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE – BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405–2106

FIGURE 4
NAVAL TRAINING CENTER CENTER ORLANDO OU 4
EXCAVATION BOUNDARIES AND
CONFIRMATORY SAMPLE LOCATIONS

DATE:	PREPARED BY:	REV
18 AUGUST 1999	A. J. MOYER	–

SCALE: NONE | SHEET: –

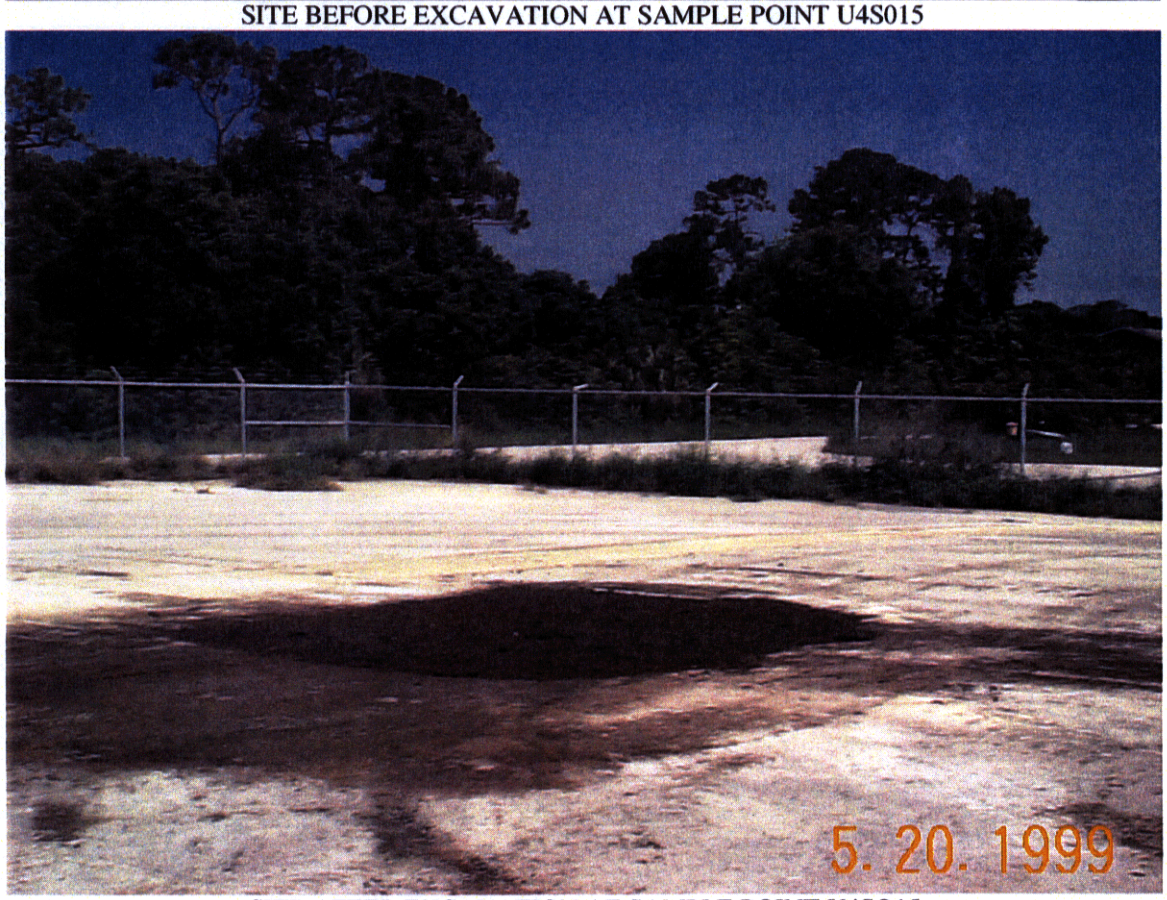
SITE BEFORE EXCAVATION AT SAMPLE POINT U4S006

SITE AFTER EXCAVATION AT SAMPLE POINT U4S006

SITE DURING EXCAVATION AT SAMPLE POINT U4S011

SITE AFTER EXCAVATION AT SAMPLE POINT U4SO11

SITE BEFORE EXCAVATION AT SAMPLE POINT U4S015



SITE AFTER EXCAVATION AT SAMPLE POINT U4SO15

CONFIRMATION SAMPLES

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 15, 1999

Sample ID	: 99SPORT0178-1
Lab ID	: 9905374-01
Matrix	: Soil
Date Collected	: 05/11/99
Date Received	: 05/12/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic	U	ND	414	455	ug/kg	2.0	MBL	05/13/99	2032	148913	
The following prep procedures were performed:											
TRACE							AJM	05/12/99	1730	148913	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

viewed By

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 15, 1999

Sample ID	: 99SPORT0178-2
Lab ID	: 9905374-02
Matrix	: Soil
Date Collected	: 05/11/99
Date Received	: 05/12/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
senic		740	450	495	ug/kg	2.0	MBL	05/13/99	2038	148913	1
The following prep procedures were performed:											
TRACE							AJM	05/12/99	1730	148913	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

ıewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905374-02

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 15, 1999

Sample ID	: 99SPORT0178-3
Lab ID	: 9905374-03
Matrix	: Soil
Date Collected	: 05/11/99
Date Received	: 05/12/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Arsenic		521	438	481	ug/kg	2.0	MBL	05/13/99	2044	148913	1
The following prep procedures were performed:											
TRACE							AJM	05/12/99	1730	148913	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson
Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

9905374-03

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 15, 1999

Sample ID	: 99SPORT0178-4
Lab ID	: 9905374-04
Matrix	: Soil
Date Collected	: 05/11/99
Date Received	: 05/12/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
rsenic	U	ND	441	485	ug/kg	2.0	MBL	05/13/99	2050	148913	1
The following prep procedures were performed:											
TRACE							AJM	05/12/99	1730	148913	2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

viewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905374-04

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874.
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 15, 1999

Sample ID	: 99SPORT0178-5
Lab ID	: 9905374-05
Matrix	: Soil
Date Collected	: 05/11/99
Date Received	: 05/12/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
olynuclear Aromatic Hydrocarbons - 16 items											
cenaphthene	U	ND	160	333	ug/kg	1.0	JPA	05/13/99	1536	149004	1
Acenaphthylene	U	ND	147	333	ug/kg	1.0					
Anthracene	U	ND	86.6	333	ug/kg	1.0					
Benzo(a)anthracene	U	ND	66.6	333	ug/kg	1.0					
Benzo(a)pyrene	U	ND	73.3	333	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	143	333	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	79.9	333	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	133	333	ug/kg	1.0					
Chrysene	U	ND	53.3	333	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	83.3	333	ug/kg	1.0					
Fluoranthene	U	ND	66.6	333	ug/kg	1.0					
Fluorene	U	ND	113	333	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	79.9	333	ug/kg	1.0					
Naphthalene	U	ND	157	333	ug/kg	1.0					
Phenanthrene	U	ND	59.9	333	ug/kg	1.0					
Pyrene	U	ND	73.3	333	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds RDH 05/13/99 0800 149004 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	65.2	(44.7 - 110.)
itrobenzene-d5	M610	60.9	(42.4 - 107.)
-Terphenyl-d14	M610	68.6	(45.5 - 104.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905374-05

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 15, 1999

Sample ID : 99SPORT0178-5

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 15, 1999

Sample ID	: 99SPORT0178-6
Lab ID	: 9905374-06
Matrix	: Soil
Date Collected	: 05/11/99
Date Received	: 05/12/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
olynuclear Aromatic Hydrocarbons - 16 items											
cenaphthene	U	ND	160	333	ug/kg	1.0	JPA	05/13/99	1606	149004	1
Acenaphthylene	U	ND	147	333	ug/kg	1.0					
Anthracene	U	ND	86.6	333	ug/kg	1.0					
Benzo(a)anthracene	U	ND	66.6	333	ug/kg	1.0					
Benzo(a)pyrene	U	ND	73.3	333	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	143	333	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	79.9	333	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	133	333	ug/kg	1.0					
Chrysene	U	ND	53.3	333	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	83.3	333	ug/kg	1.0					
Fluoranthene	U	ND	66.6	333	ug/kg	1.0					
Fluorene	U	ND	113	333	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	79.9	333	ug/kg	1.0					
Naphthalene	U	ND	157	333	ug/kg	1.0					
Phenanthrene	U	ND	59.9	333	ug/kg	1.0					
Pyrene	U	ND	73.3	333	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds RDH 05/13/99 0800 149004 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	66.7	(44.7 - 110.)
trobenzene-d5	M610	63.1	(42.4 - 107.)
Terphenyl-d14	M610	73.5	(45.5 - 104.)

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 15, 1999

Sample ID : 99SPORT0178-6

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8745
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 15, 1999

Sample ID	: 99SPORT0178-7
Lab ID	: 9905374-07
Matrix	: Soil
Date Collected	: 05/11/99
Date Received	: 05/12/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	160	333	ug/kg	1.0	JPA	05/13/99	1636	149004	1
Acenaphthylene	U	ND	147	333	ug/kg	1.0					
Anthracene	U	ND	86.6	333	ug/kg	1.0					
Benzo(a)anthracene	U	ND	66.6	333	ug/kg	1.0					
Benzo(a)pyrene	U	ND	73.3	333	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	143	333	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	79.9	333	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	133	333	ug/kg	1.0					
Chrysene	U	ND	53.3	333	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	83.3	333	ug/kg	1.0					
Fluoranthene	U	ND	66.6	333	ug/kg	1.0					
Fluorene	U	ND	113	333	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	79.9	333	ug/kg	1.0					
Naphthalene	U	ND	157	333	ug/kg	1.0					
Phenanthrene	U	ND	59.9	333	ug/kg	1.0					
Pyrene	U	ND	73.3	333	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds RDH 05/13/99 0800 149004 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	68.7	(44.7 - 110.)
Nitrobenzene-d5	M610	64.7	(42.4 - 107.)
Terphenyl-d14	M610	78.1	(45.5 - 104.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905374-07

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston. South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 15, 1999

Sample ID : 99SPORT0178-7

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 15, 1999

Sample ID	: 99SPORT0178-8
Lab ID	: 9905374-08
Matrix	: Soil
Date Collected	: 05/11/99
Date Received	: 05/12/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	160	333	ug/kg	1.0	JPA	05/13/99	1705	149004	1
Acenaphthylene	U	ND	147	333	ug/kg	1.0					
Anthracene	U	ND	86.6	333	ug/kg	1.0					
Benzo(a)anthracene	U	ND	66.6	333	ug/kg	1.0					
Benzo(a)pyrene	U	ND	73.3	333	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	143	333	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	79.9	333	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	133	333	ug/kg	1.0					
Chrysene	U	ND	53.3	333	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	83.3	333	ug/kg	1.0					
Fluoranthene	U	ND	66.6	333	ug/kg	1.0					
Fluorene	U	ND	113	333	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	79.9	333	ug/kg	1.0					
Naphthalene	U	ND	157	333	ug/kg	1.0					
Phenanthrene	U	ND	59.9	333	ug/kg	1.0					
Pyrene	U	ND	73.3	333	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds RDH 05/13/99 0800 149004 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	68.9	(44.7 - 110.)
Nitrobenzene-d5	M610	67.0	(42.4 - 107.)
p-Terphenyl-d14	M610	80.9	(45.5 - 104.)

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 15, 1999

Sample ID : 99SPORT0178-8

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

otes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 15, 1999

Sample ID	: 99SPORT0178-9
Lab ID	: 9905374-09
Matrix	: Soil
Date Collected	: 05/11/99
Date Received	: 05/12/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	160	333	ug/kg	1.0	JPA	05/13/99	1735	149004	1
Acenaphthylene	U	ND	147	333	ug/kg	1.0					
Anthracene	U	ND	86.6	333	ug/kg	1.0					
Benzo(a)anthracene	J	129	66.6	333	ug/kg	1.0					
Benzo(a)pyrene	J	203	73.3	333	ug/kg	1.0					
Benzo(b)fluoranthene	J	205	143	333	ug/kg	1.0					
Benzo(ghi)perylene	J	142	79.9	333	ug/kg	1.0					
Benzo(k)fluoranthene	J	233	133	333	ug/kg	1.0					
Chrysene	J	313	53.3	333	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	83.3	333	ug/kg	1.0					
Fluoranthene		442	66.6	333	ug/kg	1.0					
Fluorene	U	ND	113	333	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	J	107	79.9	333	ug/kg	1.0					
Naphthalene	U	ND	157	333	ug/kg	1.0					
Phenanthrene	J	273	59.9	333	ug/kg	1.0					
Pyrene		521	73.3	333	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds RDH 05/13/99 0800 149004 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	51.1	(44.7 - 110.)
Nitrobenzene-d5	M610	46.7	(42.4 - 107.)
Terphenyl-d14	M610	67.0	(45.5 - 104.)

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 15, 1999

Sample ID : 99SPORT0178-9

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178
Printed on recycled paper.

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874.
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 15, 1999

Sample ID	: 99SPORT0178-10
Lab ID	: 9905374-10
Matrix	: Soil
Date Collected	: 05/11/99
Date Received	: 05/12/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
olynuclear Aromatic Hydrocarbons - 16 items											
.cenaphthene	U	ND	160	333	ug/kg	1.0	JPA	05/13/99	1805	149004	1
Acenaphthylene	U	ND	147	333	ug/kg	1.0					
Anthracene	U	ND	86.6	333	ug/kg	1.0					
Benzo(a)anthracene	J	74.6	66.6	333	ug/kg	1.0					
Benzo(a)pyrene	J	95.2	73.3	333	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	143	333	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	79.9	333	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	133	333	ug/kg	1.0					
Chrysene	J	123	53.3	333	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	83.3	333	ug/kg	1.0					
Fluoranthene	J	196	66.6	333	ug/kg	1.0					
Fluorene	U	ND	113	333	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	79.9	333	ug/kg	1.0					
Naphthalene	U	ND	157	333	ug/kg	1.0					
Phenanthrene	J	98.4	59.9	333	ug/kg	1.0					
Pyrene	J	187	73.3	333	ug/kg	1.0					

The following prep procedures were performed:
GC/MS Base/Neutral Compounds RDH 05/13/99 0800 149004 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	43.3*	(44.7 - 110.)
trobenzene-d5	M610	38.3*	(42.4 - 107.)
Terphenyl-d14	M610	58.7	(45.5 - 104.)

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874.
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 15, 1999

Sample ID : 99SPORT0178-10

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

E Hanson

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905374-10

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 15, 1999

Sample ID	: 99SPORT0178-11
Lab ID	: 9905374-11
Matrix	: Soil
Date Collected	: 05/11/99
Date Received	: 05/12/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
olynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	160	333	ug/kg	1.0	JPA	05/13/99	1835	149004	1
Acenaphthylene	U	ND	147	333	ug/kg	1.0					
Anthracene	U	ND	86.6	333	ug/kg	1.0					
Benzo(a)anthracene	U	ND	66.6	333	ug/kg	1.0					
Benzo(a)pyrene	U	ND	73.3	333	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	143	333	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	79.9	333	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	133	333	ug/kg	1.0					
Chrysene	U	ND	53.3	333	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	83.3	333	ug/kg	1.0					
Fluoranthene	U	ND	66.6	333	ug/kg	1.0					
Fluorene	U	ND	113	333	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	79.9	333	ug/kg	1.0					
Naphthalene	U	ND	157	333	ug/kg	1.0					
Phenanthrene	U	ND	59.9	333	ug/kg	1.0					
Pyrene	U	ND	73.3	333	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds RDH 05/13/99 0800 149004 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	59.4	(44.7 - 110.)
trobenzene-d5	M610	55.7	(42.4 - 107.)
Terphenyl-d14	M610	76.4	(45.5 - 104.)

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 15, 1999

Sample ID : 99SPORT0178-11

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 15, 1999

Sample ID	: 99SPORT0178-12
Lab ID	: 9905374-12
Matrix	: Soil
Date Collected	: 05/11/99
Date Received	: 05/12/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
olynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	157	330	ug/kg	1.0	EH1	05/14/99	1816	149004	1
Acenaphthylene	U	ND	144	330	ug/kg	1.0					
Anthracene	U	ND	85.3	330	ug/kg	1.0					
Benzo(a)anthracene	U	ND	65.6	330	ug/kg	1.0					
Benzo(a)pyrene	U	ND	72.2	330	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	141	330	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	78.7	330	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	131	330	ug/kg	1.0					
Chrysene	U	ND	52.5	330	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	82.0	330	ug/kg	1.0					
Fluoranthene	U	ND	65.6	330	ug/kg	1.0					
Fluorene	U	ND	112	330	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	78.7	330	ug/kg	1.0					
Naphthalene	U	ND	154	330	ug/kg	1.0					
Phenanthrene	U	ND	59.0	330	ug/kg	1.0					
Pyrene	U	ND	72.2	330	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds RDH 05/14/99 0800 149004 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	56.6	(44.7 - 110.)
itrobenzene-d5	M610	56.2	(42.4 - 107.)
p-Terphenyl-d14	M610	76.3	(45.5 - 104.)

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905374-12

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: May 15, 1999

Sample ID : 99SPORT0178-12

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8270C
M 2	EPA 3550

.es:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

9905374-12

NTPWC00197 9705374%

CHAIN OF CUSTODY RECORD

General Engineering Laboratories, Inc.
2040 Savage Road
Charleston, South Carolina 29407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Page 1 of 1

Client Name/Facility Name: NTC Orlando

Collected by/Company: ENS DET Chasw

	SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Arsenic	PAH 8270	Remarks
-01	99Sport0178-1	5/11/99	1303		X		X	1																X		0U45011-1
-02	99Sport0178-2	5/11/99	1309		X		X	1																X		0U45011-2
-03	99Sport0178-3	5/11/99	1315		X		X	1																X		0U45011-3
-04	99Sport0178-4	5/11/99	1319		X		X	1																X		0U45011-4
-05	99Sport0178-5	5/11/99	1330		X		X	1																	X	0U45015-1
-06	99Sport0178-6	5/11/99	1334		X		X	1																	X	0U45015-2
-07	99Sport0178-7	5/11/99	1340		X		X	1																	X	0U45015-3
-08	99Sport0178-8	5/11/99	1346		X		X	1																	X	0U45015-4
-09	99Sport0178-9	5/11/99	1355		X		X	1																	X	0U45006-1
-10	99Sport0178-10	5/11/99	1410		X		X	1																	X	0U45006-2
-11	99Sport0178-11	5/11/99	1420		X		X	1																	X	0U45006-3
-12	99Sport0178-12	5/11/99	1431		X		X	1																	X	0U45006-4

Use F or P in the boxes to indicate whether sample was filtered / preserved

40196

3 Day TAT Around

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
K W Cole	5/11/99	1610					
Relinquished by:	Date:	Time:	Received by lab by:	Date:	Time:	Remarks:	
			P. A. Sauer	5/12/99	09:00		

White = sample collector Yellow = file Pink = with report