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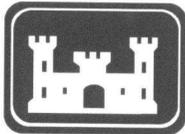
FINAL QUALITY CONTROL SUMMARY/ ANALYTICAL RESULTS REPORT ADDENDUM
REMEDIAL INVESTIGATION LIGHTER AMPHIBIOUS RESUPPLY CARGO (LARC) 60
MAINTENANCE AREA, AND AUTO CRAFT AREA FORT STORY VA
5/1/2002
MALCOLM PIRNIE

FINAL

**QUALITY CONTROL SUMMARY/ANALYTICAL RESULTS REPORT
ADDENDUM**

**REMEDIAL INVESTIGATION
FTA, LARC 60, AND AUTO CRAFT SITES
FORT STORY, VIRGINIA**

PREPARED FOR:



**U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT
BALTIMORE, MARYLAND**

and

**U.S. ARMY TRANSPORTATION CENTER
FORT EUSTIS, VIRGINIA**



**CONTRACT DACA31-94-D-0017
DELIVERY ORDER NO. 17, 20, and 24**

May 2002

**MALCOLM PIRNIE, INC.
11832 Rock Landing Drive, Suite 400
Newport News, Virginia 23606**

	<u>Page</u>
1.0 INTRODUCTION.....	1
2.0 SUMMARY OF FIELD INVESTIGATION PROGRAM	1
2.1 Field QC Program.....	1
2.1.1 FTA Site.....	2
2.1.2 LARC 60 Site.....	3
2.2 2000 Field Investigation Conclusions.....	4
3.0 SUMMARY OF DAILY NOTES.....	5
4.0 SUMMARY OF ANALYTICAL DATA	5
4.1 EPA Data Validation	5
4.2 Summary of Analytical Results	6

LIST OF TABLES

Table No.	Description	Following Page
1	Analytical Summary	1
2	Container and Holding Times Requirements	1

LIST OF APPENDICES

Appendix No.	Description
A	Daily Notes and Chain-of-Custody Forms
B	URS Corp. Data Validation Reports

1.0 INTRODUCTION

Malcolm Pirnie, Inc. was contracted by the U.S. Army Corps of Engineers (USACE), Baltimore District, to conduct a Remedial Investigation (RI) at the Firefighter Training Area (FTA), LARC 60 Maintenance Area, and Auto Craft Building Area sites at Fort Story, Virginia under Contract DACA31-94-D-0017.

This document is an Addendum to the Final Quality Control Summary/Analytical Results Report (QCS/AR Report), dated December 1995, and summarizes the activities associated with the additional soil and groundwater investigations conducted in March and June 2000 at the FTA and LARC 60 sites to address data gaps to the original investigations in 1995.

The objectives of the investigation and site descriptions were provided in the Final QCS/AR Report and remain the same. A summary of the report format for this Addendum is provided as follows:

- Section 1.0 - Introduction
- Section 2.0 - Summary of the Field Investigation Program
- Section 3.0 - Summary of Daily Activities
- Section 4.0 - Summary of Analytical Data
- Appendix A - Daily Forms and Chain of Custody Records
- Appendix B - Data Validation Reports

2.0 SUMMARY OF THE FIELD INVESTIGATION PROGRAM

This section summarizes the field investigation's quality control (QC) program and conformance with the USACE-approved procedures established in the Final RI Work Plan, dated December 1994, and Final Work Plan Addendum, dated August 1999, including analytical requirements, sampling locations and methodologies, and field documentation requirements for the site.

2.1 Field Quality Control Program

The objective of the field QC program was to collect sufficient QC samples for each sample matrix at each site. QC procedures utilized during the field investigations to support an assessment of the analytical data generated included the collection and analysis of numerous QC samples including duplicates, trip blanks, equipment rinsates, and matrix spike/matrix spike duplicates (MS/MSD). A summary of the samples submitted to off-site laboratories for the field investigation is provided in **Table 1** for the sites.

All samples were collected at the site in containers as specified in **Table 2**. Containers and coolers were provided by the analytical laboratory, STL Savannah Laboratories. The containers were pre-

**TABLE 1
ANALYTICAL SUMMARY**

Sample Task/Type	Analytical Parameters and Methods				
	TCL VOCs (8260)	TAL Metals/Hg ¹ (6010/7471)	TCL Pest/PCBs (8081A/8082)	TSS (160.2)	TDS (160.1)
Groundwater Samples					
Groundwater	10	20	10	10	10
Duplicates ²	2	4	2	2	2
Trip Blank ³	3	0	0	0	0
MS/MSD ⁴	1	1	1	1	1
Groundwater Sample Total	16	25	13	13	13
Surface Soil Samples					
Soil	0	0	16	0	0
Duplicates ²	0	0	2	0	0
Trip Blank ³	0	0	0	0	0
MS/MSD ⁴	0	0	1	0	0
Soil Sample Total	0	0	19	0	0

Notes:

1. Total and dissolved fractions for metals will be collected and analyzed.
2. Duplicates will be collected at a rate of 10 percent.
3. Trip Blank will be collected for every sample cooler that contains aqueous VOC samples.
4. MS/MSD sample will be collected for every 20 samples analyzed.

TABLE 2
CONTAINER TYPE AND HOLDING TIME REQUIREMENTS

ANALYSIS	CONTAINER	PRESERVATION	HOLDING TIME
SOIL			
TCL Pesticides/PCBs	500-ml glass with teflon-lined lid	Cool to 4°C	14 days/40 days (1)
GROUNDWATER			
TAL Metals	250-ml plastic	HNO ₃ to pH < 2, Cool to 4°C	6 months
TAL Mercury	250-ml plastic	HNO ₃ to pH < 2, Cool to 4°C	28 days
TCL VOCs	3 - 40 ml vials with teflon septa	HCl to pH < 2, Cool to 4°C	14 days
TCL PCBs/Pesticides	2 - 1 liter amber glass	Cool to 4°C	7 days/40 days (2)
Total suspended solids	500-ml plastic	Cool to 4°C	7 days
Total dissolved solids	500-ml plastic	Cool to 4°C	7 days

Notes:

- (1) 14 days/40 days - Holding times are 14 days for extraction and 40 days for analysis.
- (2) 7 days/40 days - Holding times are 7 days for extraction and 40 days for analysis.

labeled by STL with information including analysis required and preservatives placed in each container. STL also provided Chain-of-Custody (COC) records used to track samples from the site. A copy of the COC was kept by the sampling team prior to shipment to the laboratory. Upon receipt of the coolers, the samples were logged in and the COC signed by the laboratory's sample custodian. A copy of the COC forms are provided in **Appendix A**.

The following sections discuss the QC program at each site for each sample matrix including an assessment of the number of QC samples collected and a discussion of nonconformances and corrective action taken, if any, for those nonconformances.

2.1.1 FTA Site

Monitoring Well Groundwater Sampling

Sampling Procedures

Groundwater samples were collected from four monitoring well locations at the site. Groundwater sampling and equipment decontamination procedures utilized during the field investigation are described in Section 2.2.7 of the Final RI Report which were consistent with the methodologies listed in Section 1.4.1 of the Final Work Plan Addendum.

All monitoring well groundwater samples were analyzed for VOCs, pesticides, PCBs, TSS, TDS, and total and dissolved metals. A summary of the QC samples collected for the groundwater monitoring is provided as follows:

- One duplicate sample (25% collection rate) was collected for analysis of all parameter groups.
- One trip blank was analyzed for VOCs to determine any cross-contamination during sample shipment and handling.
- One MS/MSD sample (1 per 12 samples) was collected for the combined FTA and LARC 60 data set for assessment of any matrix interferences.

Because of the use of a dedicated QED well pump in each well at the FTA site, there was no need for collection of an equipment rinsate.

Nonconformances and Corrective Actions

No significant field nonconformances and changes to the approved Final Work Plan Addendum, corrective actions and impacts on data quality for groundwater sampling at the site were noted. All required QC samples were collected and analyzed.

Soil Sampling

Sampling Procedures

Surface soil samples were collected by hand auger and/or stainless steel scoop at a depth of 0 to 6 inches below ground surface (bgs) from eight locations at the site. Soil sampling procedures utilized during the field investigation are described in Section 2.2.1 of the Final RI Report, which were consistent with the methodologies listed in Section 3.5 of the Final Work Plan.

All eight soil samples were analyzed for pesticides and PCBs. A summary of the QC samples collected for the soil sampling effort is provided as follows:

- One duplicate sample (12% collection rate) was collected for analysis of all parameter groups.
- One MS/MSD sample (1 per 8 samples) was collected for assessment of any matrix interferences.

Nonconformances and Corrective Actions

No significant field nonconformances and changes to the approved Final Work Plan, corrective actions and impacts on data quality for soil sampling at the site were noted. All required QC samples were collected and analyzed.

2.1.2 LARC 60 Site

Monitoring Well Groundwater Sampling

Sampling Procedures

Groundwater samples were collected six monitoring well locations at the site. Groundwater sampling and equipment decontamination procedures utilized during the field investigation are described in Section 2.2.7 of the Final RI Report which were consistent with the methodologies listed in Section 1.4.1 of the Final Work Plan Addendum.

All monitoring well groundwater samples were analyzed for VOCs, pesticides, PCBs, TSS, TDS, and total and dissolved metals. A summary of the QC samples collected for the groundwater monitoring is provided as follows:

- One duplicate sample (17% collection rate) was collected for analysis of all parameter groups.
- One trip blank was analyzed for VOCs to determine any cross-contamination during sample shipment and handling.

Final QCS/AR Report Addendum

- As presented for the FTA site, one MS/MSD sample (1 per 12 samples) was collected for the combined FTA and LARC 60 data set for assessment of any matrix interferences.

Because of the use of a dedicated QED well pump in each well at the LARC 60 site, there was no need for collection of an equipment rinsate.

Nonconformances and Corrective Actions

No significant field nonconformances and changes to the approved Final Work Plan Addendum, corrective actions and impacts on data quality for groundwater sampling at the site were noted. All required QC samples were collected and analyzed.

Soil Sampling

Sampling Procedures

Surface soil samples were collected by hand auger and/or stainless steel scoop at a depth of 0 to 6 inches below ground surface (bgs) from eight locations at the site. Soil sampling procedures utilized during the field investigation are described in Section 2.2.1 of the Final RI Report, which were consistent with the methodologies listed in Section 3.5 of the Final Work Plan.

All eight soil samples were analyzed for pesticides and PCBs. A summary of the QC samples collected for the soil sampling effort is provided as follows:

- One duplicate sample (12% collection rate) was collected for analysis of all parameter groups.
- One MS/MSD sample (1 per 8 samples) was collected for assessment of any matrix interferences.

Nonconformances and Corrective Actions

No significant field nonconformances and changes to the approved Final Work Plan, corrective actions and impacts on data quality for soil sampling at the site were noted. All required QC samples were collected and analyzed.

2.2 2000 Field Investigation Conclusions

There were no field nonconformances identified for the 2000 field investigation event. Field DQOs for precision, accuracy, representativeness, completeness and comparability were met during the field investigations at the site through the performance of the following:

- Proper documentation of field activities and analytical requests.

Final QCS/AR Report Addendum

- Proper and routine calibration and operation of field instrumentation.
- Consistent sample collection, handling and transportation.
- Compliance with approved sampling techniques and protocols as established in the Final Work Plan.

3.0 SUMMARY OF DAILY ACTIVITIES

Daily notes were prepared daily for the additional March 2000 field activities at the FTA and LARC 60 sites at Fort Story, Virginia. These reports summarized data such as the following:

- Weather conditions
- Work performed at the site
- Quality control activities
- Problems encountered and corrective actions taken

Copies of the Daily Notes are provided in **Appendix A** of this Addendum. The initial field activities were started at the site on March 22, 2000, with the initiation of collection of groundwater samples at the FTA site and terminated on June 3, 2000 with the completion of soil sampling for pesticide analysis.

No impacts from adverse weather or equipment malfunction were noted and no corrective action was implemented during the field investigations.

4.0 SUMMARY OF ANALYTICAL DATA

This section summarizes the analytical data for field and quality control (QC) samples collected at the FTA and LARC 60 sites during the March and June 2000 field investigations. The sampling and analysis program was conducted in accordance with the quality assurance requirements presented in the Final Work Plan and Final Work Plan Addendum.

4.1 EPA Data Validation

URS Corporation performed a data validation on 100% of the samples collected at the site during the performance of the 2000 field investigations. The validation was performed in accordance with Region III Modifications to the National Functional Guidelines for Organic Data Review and Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analysis. URS' data validation reports (one data validation report for the groundwater data and one for the soil data) for the FTA and LARC 60 site data are provided in **Appendix B**. These reports provide a detailed analysis and summary of the quality of the data generated at the site.

The majority of the analytical results are usable as reported, despite minor deviations from USEPA criteria, which did not jeopardize the chemical representativeness of the data. However, there were instances where compounds or whole fractions were rejected based upon gross violations from EPA methodologies and/or data validation criteria. The only major problem associated with the data was the data for the tentatively identified compounds (TICs), which were identified as laboratory artifacts, and were rejected in the VOC groundwater samples.

All other data (included those with appropriate qualifiers) will be used in the risk calculations.

4.2 Summary of Analytical Results

As discussed in the data validation reports, the data generated for the site were considered acceptable and were used with a high degree of confidence in evaluating the nature and extent of contamination and in the performance of the baseline risk assessment. There were a limited number of samples that were either rejected or qualified, but overall, the data was of high quality. A copy of all analytical data is provided in **Appendix B** in the validation reports.

Appendix A
Daily Notes and COC Forms

Final QCS/AR Report Addendum
Remedial Investigation
FTA and LARC 60 Sites
Fort Story, Virginia



DAILY NOTES

PROJECT NUMBER: 0285-783-200

DATE: 3/22/00

PROJECT NAME: Remedial Investigation

PAGE 1

OF

SITE LOCATION: Fort Story, Virginia

WEATHER CONDITIONS: ~ 45°F WINDY RAINING

SAMPLERS: Shelly Kolb / Chris Pianta

TIME	LOG ENTRY
0900	PAL/SLK ON SITE Fort Story
0917	CP ON SITE AT RIGHT house
0925	PAL shows us where all wells are and orients us w/ site
1030	SET UP AT FTH MW 112 - CAL HEIGHT
1035	BEGIN PURGE
1120	FINISH Purging seal collect sample MW-112
1141	SETUP AT MW-114A
1158	BEGIN PURGE
1210	END PURGE collect sample - PACK UP - TAKE LUNCH
1230	BREAK FOR LUNCH
1320	BACK ON SITE SET UP AT MW-111
1337	BEGIN PURGE
1400	END PURGE collect MW-111 MW-111-M7 MW-111-M6D
1424	END SAMPLING - GO TO GAS MIB to GAS Station
1445	BACK ON SITE SET UP AT 4 MW
1450	BEGIN PURGE
1515	FINISH Purge Collect Sample
1525	FINISH Collecting Sample
1540	FINISH PACKING UP
1600	Fillout COC
off site 3/22/00 (600)	

SIGNATURE:

DATE:

DAILY NOTES

PROJECT NUMBER: 0285-783-200

DATE: 3/23/00

PROJECT NAME: Remedial Investigation

PAGE 1 OF

SITE LOCATION: Fort Story, Virginia

WEATHER CONDITIONS:

~50°+ windy - clouds

SAMPLERS: Shelly Kolb / Chris Pianta

TIME	LOG ENTRY
0917	on site Ft Story - plan to do Land Fill well 1st BUT EDD TRAINING in progress - Go to LARC 60
0925	ON SITE LARC 60 SETP up - CAL Horiba
0948	Begin purging MW-118
1010	Finish Purging collect sample MW-118
1015	Finish Sampling PACK up go to MW-117
1023	Begin purging
1045	Finish PURGE - collect sample
1058	SAMPLE collection complete MW-117
1105	PACK UP MOB TO MW-115
1107	ON SITE MW-115 Set up
1113	Begin purging
1135	Finish purging collect sample MW-115
1140	Finished sampling PACK UP TAKE LUNCH
1200	IS BREAK FOR LUNCH
1300	BACK ON SITE AT LANDFILL MW-106
1320	Begin Purging
1340	END PURGE - collect sample
1345	Finish collecting sample PACK up return to LARC 60 to sample last three wells
1352	on site AT 6 MW-1 set up
1401	Begin purging
1415	and purging collect sample
1419	END SAMPLE collection pack up move to 6 MW-35
1426	ON SITE 6 MW-35 set up
1435	Begin purging
1456	END PURGING Begin Sampling
1506	END SAMPLING PACK

SIGNATURE:

DATE:

DAILY NOTES

PROJECT NUMBER: 0285-783-200

DATE: 3/24/00

PROJECT NAME: Remedial Investigation

PAGE 1 OF

SITE LOCATION: Fort Story, Virginia

WEATHER CONDITIONS: Sunny ~ 57°F Breezy

SAMPLERS: Shelly Kolb / Chris Pianta

TIME	LOG ENTRY
0900	ON SITE Ft Story
0905	ON SITE FTA collect Soil Samples
0910	FTA - SS6
0915	FTA - SS5
0920	FTA - SS8
0925	FTA - SS7 ms/msd
0930	FTA - SS4
0935	FTA - SS3
0940	FTA - SS2
0945	FTA - SS1 FTA - SS1D
0950	Decon equip pack up head to LARC 60
0957	ON SITE LARC 60 collect Soil Samples
1000	LARC60 - SS1 LARC60 - SS1D
1005	LARC60 - SS2
1010	LARC60 - SS7 ms/msd
1015	LARC60 - SS8
1020	LARC60 - SS4
1025	LARC60 - SS3 Move to wooded area
1035	LARC60 - SS5
1040	LARC60 - SS6
1047	PACK up Fill out CoC go set ICE for samples
1140	off site

SIGNATURE:

DATE:

Appendix B
URS Data Validation Reports

Final QCS/AR Report Addendum
Remedial Investigation
FTA and LARC 60 Sites
Fort Story, Virginia





MEMORANDUM

To: Anthony Pace
Sr. Project Engineer – Malcolm Pirnie, Inc.

From: Daniel K. Fournier *DKF* Mary Bitka *MB*
Chemist - URS Project Manager - URS

Date: February 1, 2001

Subject: Organic/Inorganic Data Validation Report for
Fort Story, Virginia Beach, Virginia
March 22 and March 23, 2000 Sampling Event – SDG Nos. FTS01

Data Validation Narrative

Eleven aqueous samples, two field duplicates, one matrix spike/matrix spike duplicates (MS/MSD), and two trip blanks were collected on March 22, 2000 and March 23, 2000 at Fort Story and analyzed by Severn Trent Laboratories, Inc. of Savannah, Georgia. One hundred percent of the data were validated manually to USEPA Region III Levels M-3 and IM-2, which are equivalent to data Level IV.

The data packages were reviewed following USEPA guidelines presented in *Region III Modifications to National Functional Guidelines for Organic Data Review*, dated September 1994; *Region III Modifications to Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses*, dated April 1993; and *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, Final Update III*, June 1997.

The text of this report only addresses those problems that affect data usability. The following appendices are included with this Data Validation Report:

Appendices:

Appendix A – Glossary of Data Qualifiers
Appendix B – Data Summary Forms (Forms 1s)
Appendix C – Support Documentation

OVERVIEW

Eleven aqueous samples, two field duplicates, one matrix spike/matrix spike duplicates (MS/MSD), and two trip blanks were collected from March 22 to March 23, 2000 at Fort Story and analyzed by Severn Trent Laboratories, Inc. of Savannah, Georgia. A sample identification summary is presented in Table 1. The samples were analyzed for the following parameters. Not all samples were analyzed for each parameter.

<u>Parameter</u>	<u>Method No.</u>
Target Compound List (TCL) Volatile Organic Compounds (VOCs)	SW8260B
TCL Pesticides	SW8081A
TCL Polychlorinated Biphenyls (PCBs)	SW8082
Target Analyte List (TAL) Metals	SW6010B/7470A

The analytical results were reported in accordance with USEPA CLP and reported in laboratory SDG number FTS01.

One hundred percent of the samples were validated to USEPA Region III Levels M-3 and IM-2. A glossary of data qualifiers is presented in Appendix A. The laboratory applied inorganic qualifier "B" (defined by the method as an estimated value above the instrument detection limit, but less than the quantitation limit) was deleted from the metals results during the data validation and replaced with a "J" qualifier, except when USEPA Region III hierarchy of qualifiers take precedence (i.e., "R", "B", "L", and "K" take precedence over the "J" qualifier).

All aqueous sample concentrations were below the 10-day "Chemical Health Advisory Levels" listed in the USEPA Region III validation guidelines.

SUMMARY

The samples were successfully analyzed, with exceptions noted in subsequent sections of this report. Data that were determined to be unusable are discussed in the "Major Problems" and "Notes" section of this report. Copies of the validated laboratory results (Form 1s) are presented in Appendix B.

MAJOR PROBLEMS

Major problems are those considered to have a serious effect on the usability of the data. The following data have been rejected ("R") due to severe quality control (QC) exceedances from the referenced methods.

- Tentatively identified compounds (TICs), which were identified as laboratory artifacts (i.e., carbon dioxide, column bleed, aldol condensation products, and phthalates), were rejected ("R") in the VOC samples.

TABLE 1
SAMPLE IDENTIFICATION SUMMARY
FORT STORY, VIRGINIA BEACH, VIRGINIA SITE
SDG NO. FTS01

Field Sample No.	Date Collected	Matrix	Parameters Analyzed	Notes
MW-112	03/22/00	Aqueous	A	---
MW-114A	03/22/00	Aqueous	A	---
MW-111	03/22/00	Aqueous	A	MS/MSD
4-MW-1	03/22/00	Aqueous	A	---
4-MW-1D	03/22/00	Aqueous	A	Field Duplicate
010D-Trip Blank	03/22/00	Aqueous	D	---
6MW-1	03/23/00	Aqueous	A	---
6MW-3S	03/23/00	Aqueous	A	---
6MW-3SD	03/23/00	Aqueous	A	Field Duplicate
MW-118	03/23/00	Aqueous	A	---
MW-117	03/23/00	Aqueous	A	---
MW11S	03/23/00	Aqueous	A	---
6MW-4	03/23/00	Aqueous	A	---
010D-Trip Blank	03/23/00	Aqueous	D	---
MW-106	03/23/00	Aqueous	B	---

Notes:

A - Analytical parameters include TCL VOCs, TCL Pesticides, TCL PCBs, TDS, TSS, and TAL Metals (total and dissolved).

B - Cadmium only (total and dissolved).

D - TCL VOCs only.

MS/MSD - Matrix Spike/Matrix Spike Duplicate.

MINOR PROBLEMS

Minor problems are those that reflect biases identified during the data review, which may result in the qualification of sample results as estimated (“J/UJ”), biased low (“L/UL”), or biased high (“K”).

- All TIC results for the VOC samples, not previously qualified as rejected (“R”), or qualified “B”, were qualified as estimated (“J”).
- The 4,4'-DDT results for aqueous samples 6MW-1, 6MW-3S, 6MW-3SD, MW-118, MW-115, and 6MW-4 were qualified as estimated (“UJ”) because the continuing calibration percent difference (%D) grossly exceeded QC limits (i.e., >50%D). Supporting documentation (i.e., Table C-1 and laboratory Form 7) is presented in Appendix C.
- The pesticide/PCB analyses for aqueous samples MW-114A, 6MW-3S, 6MW-3SD, MW-115, and 6MW-4 exhibited low surrogate recoveries for decahalorobiphenyl (DCB) on both columns. The non-detect results were qualified as estimated (“UJ”). Supporting documentation (i.e., Table C-2 and the laboratory Form 2) is presented in Appendix C.
- The pesticide/PCB analysis for aqueous sample 4-MW-1D exhibited low surrogate recoveries for tetrachloro-m-xylene (TCX) on both columns. The non-detect results were qualified as estimated (“UJ”). Supporting documentation (i.e., Table C-2 and the laboratory Form 2) is presented in Appendix C.
- The pesticide/PCB analysis for aqueous sample MW-117 exhibited low surrogate recoveries for DCB (<10%) on both columns. The non-detect results were qualified as rejected (“R”). Supporting documentation (i.e., Table C-2 and the laboratory Form 2) is presented in Appendix C.
- The metals serial dilution of aqueous sample MW-111 (dissolved) exhibited an elevated (%D) for aluminum. The results for all aqueous samples, not previously qualified (“B”), were qualified as estimated (“J/UJ”). Supporting documentation (i.e., Table C-3 and laboratory Form 9) is presented in Appendix C.
- Aqueous samples MW-112, MW-114A, MW111, 4-MW-1, and 4-MW-1D were filtered in the laboratory rather than in the field. Supporting documentation (i.e., case narrative) is presented in Appendix C.
- The dissolved metals were at very similar concentrations, or at times greater than the total metals for selected elements in most of the aqueous samples. Two samples, MW-117 and 6MW-4, were re-digested to verify original results and similar results were obtained. In accordance with USEPA Region III, no data qualification is required.

NOTES

Sample Custody Documentation

All samples were received at the laboratory intact and under proper chain-of-custody (COC) with one exception. COCs from samples collected on 3/23/00 have no signatures from field personnel relinquishing samples to the laboratory. Also, samples were received 5 days later at the laboratory, with no clear indication of COC during those 5 days.

Blank Review

Target compound/analytes were detected in the laboratory QC blank samples, as summarized in Table 3, which lists the maximum concentrations detected in any one of the blanks. Supporting documentation (i.e., laboratory Form 1s and Form 3s) is presented in Appendix C. The following describes which sample results should be considered false-positive due to blank contamination. Only those contaminants requiring qualification are referenced.

- TIC results for the VOC samples were qualified "B" because of method blank contamination. USEPA Region III validation guidelines require that sample concentrations, less than ten times the amount detected in an associated blank, be qualified "B."

Total metals:

- The copper and manganese results for several aqueous samples were qualified "B" because of calibration and preparatory blank contamination. USEPA Region III validation guidelines require sample concentrations less than five times the amount detected in an associated blank be qualified "B."

Dissolved metals:

- The aluminum, antimony, barium, chromium, copper, iron, manganese, and vanadium results for several aqueous samples were qualified "B" because of calibration and preparatory blank contamination. USEPA Region III validation guidelines require sample concentrations less than five times the amount detected in an associated blank be qualified "B."

TABLE 3
MAXIMUM CONCENTRATIONS IN QC BLANKS*
FORT STORY, VIRGINIA BEACH, VIRGINIA SITE
SDG NO. FTS01

Analyte	Method/ Preparation Blank	ICB/ CCB Blank
	Water	Water
2-Butanone**	12.0 ug/L	---
Aluminum	---	15.5 ug/L
Antimony	3.23 ug/L	5.27 ug/L
Barium	---	1.51 ug/L
Cadmium	---	1.07 ug/L
Calcium	25.3 ug/L	7.87 ug/L
Chromium	---	1.77 ug/L
Copper	1.21 ug/L	2.79 ug/L
Iron	21.4 ug/L	---
Magnesium	7.56 ug/L	---
Manganese	---	1.32 ug/L
Potassium	10.8 ug/L	---
Sodium	363 ug/L	---
Thallium	---	6.36 ug/L
Vanadium	0.808 ug/L	1.78 ug/L

Notes:

- ** - Common laboratory contaminant.
- - Not detected
- µg/L - microgram per liter

Field Duplicate Precision

Tables 4, 5, 6, and 7 summarize the results for the field duplicate analyses (detections only) of samples 4-MW-1, 4-MW-1F, 6MW-35, and 6MW-35F, respectively. In accordance with USEPA Region III validation guidelines, no qualification of the data were made based on field duplicate precision.

Matrix Spike/Matrix Spike Duplicate Accuracy and Precision

The organic and inorganic MS/MSD analyses exhibited good precision and accuracy. The associated laboratory control samples (LCSs) were within QC limits. No qualifiers were applied to the sample data.

TABLE 4
FIELD DUPLICATE PRECISION
FORT STORY, VIRGINIA BEACH, VIRGINIA SITE
SDG NO. FTS01

PRIMARY SAMPLE ID	FIELD DUPLICATE SAMPLE ID	COMPOUND	PRIMARY/DUPLICATE COMPOUND CONCENTRATION (ug/L)	RPD
4-MW-1	4-MW-1D	Acetone	ND/10	N/C
		Aluminum	460/470	21.5
		Barium	18/18	0
		Calcium	6200/6200	0
		Copper	21/18	15.4
		Iron	280/270	36.4
		Lead	2.8/4.0	35.3
		Magnesium	970/980	1.0
		Manganese	3.7/3.7	0
		Potassium	1300/1300	0
		Sodium	5400/5400	0
		Vanadium	0.75/0.81	8
Zinc	83/83	0		

ND – Non-Detect
N/C – Not Calculable

TABLE 5
FIELD DUPLICATE PRECISION
FORT STORY, VIRGINIA BEACH, VIRGINIA SITE
SDG NO. FTS01

PRIMARY SAMPLE ID	FIELD DUPLICATE SAMPLE ID	COMPOUND	PRIMARY/DUPLICATE COMPOUND CONCENTRATION (ug/L)	RPD
4-MW-1F	4-MW-1DF	Aluminum	180/200	10.5
		Antimony	3.8/2.9	26.9
		Barium	16/17	6.1
		Calcium	5800/5900	1.7
		Copper	7.9/7.5	5.2
		Iron	130/130	0
		Lead	4.6/2.6	55.6
		Magnesium	910/920	10.9
		Manganese	2.3/2.5	8.3
		Potassium	1200/1300	8
		Sodium	5000/5100	2
		Vanadium	1.4/1.1	24
		Zinc	65/70	7.4

ND – Non-Detect
N/C – Not Calculable

TABLE 6
FIELD DUPLICATE PRECISION
FORT STORY, VIRGINIA BEACH, VIRGINIA SITE
SDG NO. FTS01

PRIMARY SAMPLE ID	FIELD DUPLICATE SAMPLE ID	COMPOUND	PRIMARY/DUPLICATE COMPOUND CONCENTRATION (ug/L)	RPD
6MW-3S	6MW-3SD	1,2-Dichloroethane (total)	2.0/1.9	5.1
		4-Methyl-2-pentanone	34/44	25.6
		Trichloroethene	1.3/1.3	0
		Vinyl chloride	3.1/3.0	3.3
		Barium	21/22	4.7
		Beryllium	4.1/0.32	171
		Calcium	17000/17000	0
		Chromium	0.71/1.1	43.1
		Copper	2.1/1.9	10
		Iron	2600/2700	3.8
		Magnesium	2000/2100	4.9
		Manganese	140/140	0
		Potassium	3700/3700	0
		Sodium	16000/16000	0
		Vanadium	1.9/1.2	45.2
Zinc	4.9/3.2	42		

ND – Non-Detected
N/C – Not Calculable

TABLE 7
FIELD DUPLICATE PRECISION
FORT STORY, VIRGINIA BEACH, VIRGINIA SITE
SDG NO. FTS01

PRIMARY SAMPLE ID	FIELD DUPLICATE SAMPLE ID	COMPOUND	PRIMARY/DUPLICATE COMPOUND CONCENTRATION (ug/L)	RPD
6MW-3SF	6MW-3SDF	Aluminum	10/14	33.3
		Antimony	5.4/3.5	42.7
		Barium	21/21	0
		Calcium	16000/16000	0
		Chromium	1.0/1.1	9.5
		Iron	2500/2500	0
		Lead	4.7/2.4	64.8
		Magnesium	1900/2000	5.1
		Manganese	130/130	0
		Potassium	3600/3700	2.7
		Sodium	15000/15000	0
		Vanadium	1.5/2.1	33.3
Zinc	4.0/3.2	22.2		

ND – Non-Detect
N/C – Not Calculable

APPENDIX A

GLOSSARY OF DATA QUALIFIERS

GLOSSARY OF DATA QUALIFIERS

For the purposes of Region III Data Validation, the following code letters and associated definitions are provided:

- U** - Not detected. The associated number indicates approximate sample concentration necessary to be detected.
- B** - Not detected substantially above the level reported in the laboratory or field blanks.
- R** - Unreliable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.
- J** - Analyte present. Reported value may not be accurate or precise.
- K** - Analyte present. Reported value may be biased high. Actual value is expected lower.
- L** - Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- N** - Tentative identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.
- UJ** - Not detected. Quantitation limit may be inaccurate or imprecise.
- UL** - Not detected. Quantitation limit is probably higher.
- NJ** - Qualitative identification questionable due to poor resolution. Presumptively present at an approximate quantity.
- D** - The reported value is from a secondary dilution.

APPENDIX B

DATA SUMMARY FORMS
(Form 1s)

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01956-1

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL

Case No.:

SAS No.:

SDG No.: FTS01

Matrix: (soil/water) WATER

Lab Sample ID: MW-112

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: L260

Level: (low/med) LOW

Date Received: 03/24/00

% Moisture: not dec. _____

Date Analyzed: 03/31/00

GC Column: DB-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

74-87-3	CHLOROMETHANE	10	U
75-01-4	VINYL CHLORIDE	10	U
74-83-9	BROMOMETHANE	10	U
75-00-3	CHLOROETHANE	10	U
75-35-4	1 1-DICHLOROETHENE	5.0	U
75-09-2	METHYLENE CHLORIDE	5.0	U
75-34-3	1 1-DICHLOROETHANE	0.60	J
67-66-3	CHLOROFORM	5.0	U
71-55-6	1 1 1-TRICHLOROETHANE	5.0	U
56-23-5	CARBON TETRACHLORIDE	5.0	U
71-43-2	BENZENE	5.0	U
107-06-2	1 2-DICHLOROETHANE	5.0	U
79-01-6	TRICHLOROETHENE	5.0	U
78-87-5	1 2-DICHLOROPROPANE	5.0	U
75-27-4	BROMODICHLOROMETHANE	5.0	U
108-88-3	TOLUENE	5.0	U
79-00-5	1 1 2-TRICHLOROETHANE	5.0	U
127-18-4	TETRACHLOROETHENE	5.0	U
124-48-1	DIBROMOCHLOROMETHANE	5.0	U
108-90-7	CHLOROBENZENE	5.0	U
100-41-4	ETHYL BENZENE	5.0	U
100-42-5	STYRENE	5.0	U
75-25-2	BROMOFORM	5.0	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	5.0	U
67-64-1	ACETONE	50	U
75-15-0	CARBON DISULFIDE	5.0	U
78-93-3	2-BUTANONE	25	U
108-10-1	4-METHYL-2-PENTANONE (MIBK)	25	U
10061-01-5	cis-1,3-DICHLOROPROPENE	5.0	U
10061-02-6	trans-1,3-DICHLOROPROPENE	5.0	U
591-78-6	2-HEXANONE	25	U
540-59-0	1,2-DICHLOROETHENE (total)	5.0	U
1330-20-7	XYLENE (total)	10	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

01956-1

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL

Case No.:

SAS No.:

SDG No.: FTS01

Matrix: (soil/water) WATER

Lab Sample ID: MW-112

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: L260

Level: (low/med) LOW

Date Received: 03/24/00

% Moisture: not dec. _____

Date Analyzed: 03/31/00

GC Column: DB-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	1.33	160	JNB
2.	UNKNOWN	1.50	53	JJ
3.	UNKNOWN	2.06	19	JB
4.	UNKNOWN	2.62	62	JJ
5.	UNKNOWN	4.02	49	JJ
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OK 1/3/01

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01956-2

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL

Case No.:

SAS No.:

SDG No.: FTS01

Matrix: (soil/water) WATER

Lab Sample ID: MW-114A

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: L261

Level: (low/med) LOW

Date Received: 03/24/00

% Moisture: not dec. _____

Date Analyzed: 03/31/00

GC Column: DB-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

74-87-3	CHLOROMETHANE	10	U
75-01-4	VINYL CHLORIDE	10	U
74-83-9	BROMOMETHANE	10	U
75-00-3	CHLOROETHANE	10	U
75-35-4	1 1-DICHLOROETHENE	5.0	U
75-09-2	METHYLENE CHLORIDE	5.0	U
75-34-3	1 1-DICHLOROETHANE	0.86	J
67-66-3	CHLOROFORM	5.0	U
71-55-6	1 1 1-TRICHLOROETHANE	5.0	U
56-23-5	CARBON TETRACHLORIDE	5.0	U
71-43-2	BENZENE	5.0	U
107-06-2	1 2-DICHLOROETHANE	5.0	U
79-01-6	TRICHLOROETHENE	5.0	U
78-87-5	1 2-DICHLOROPROPANE	5.0	U
75-27-4	BROMODICHLOROMETHANE	5.0	U
108-88-3	TOLUENE	5.0	U
79-00-5	1 1 2-TRICHLOROETHANE	5.0	U
127-18-4	TETRACHLOROETHENE	5.0	U
124-48-1	DIBROMOCHLOROMETHANE	5.0	U
108-90-7	CHLOROBENZENE	5.0	U
100-41-4	ETHYL BENZENE	5.0	U
100-42-5	STYRENE	5.0	U
75-25-2	BROMOFORM	5.0	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	5.0	U
67-64-1	ACETONE	15	J
75-15-0	CARBON DISULFIDE	5.0	U
78-93-3	2-BUTANONE	25	U
108-10-1	4-METHYL-2-PENTANONE (MIBK)	25	U
10061-01-5	cis-1,3-DICHLOROPROPENE	5.0	U
10061-02-6	trans-1,3-DICHLOROPROPENE	5.0	U
591-78-6	2-HEXANONE	25	U
540-59-0	1,2-DICHLOROETHENE (total)	5.0	U
1330-20-7	XYLENE (total)	10	U

FORM 1
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

01956-2

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL

Case No.:

SAS No.:

SDG No.: FTS01

Matrix: (soil/water) WATER

Lab Sample ID: MW-114A

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: L261

Level: (low/med) LOW

Date Received: 03/24/00

% Moisture: not dec. _____

Date Analyzed: 03/31/00

GC Column: DB-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 3

CONCENTRATION UNITS:
 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	1.33	170	JNB R
2.	UNKNOWN	2.06	12	JB B
3.	UNKNOWN	2.49	13	JJ
4.				
5.				
6.				
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DKD 1/2/01

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01956-3

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL

Case No.:

SAS No.:

SDG No.: FTS01

Matrix: (soil/water) WATER

Lab Sample ID: MW-111

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: L262

Level: (low/med) LOW

Date Received: 03/24/00

% Moisture: not dec. _____

Date Analyzed: 03/31/00

GC Column: DB-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

74-87-3	CHLOROMETHANE	10	U
75-01-4	VINYL CHLORIDE	10	U
74-83-9	BROMOMETHANE	10	U
75-00-3	CHLOROETHANE	10	U
75-35-4	1 1-DICHLOROETHENE	5.0	U
75-09-2	METHYLENE CHLORIDE	5.0	U
75-34-3	1 1-DICHLOROETHANE	5.0	U
67-66-3	CHLOROFORM	5.0	U
71-55-6	1 1 1-TRICHLOROETHANE	5.0	U
56-23-5	CARBON TETRACHLORIDE	5.0	U
71-43-2	BENZENE	5.0	U
107-06-2	1 2-DICHLOROETHANE	5.0	U
79-01-6	TRICHLOROETHENE	5.0	U
78-87-5	1 2-DICHLOROPROPANE	5.0	U
75-27-4	BROMODICHLOROMETHANE	5.0	U
108-88-3	TOLUENE	5.0	U
79-00-5	1 1 2-TRICHLOROETHANE	5.0	U
127-18-4	TETRACHLOROETHENE	5.0	U
124-48-1	DIBROMOCHLOROMETHANE	5.0	U
108-90-7	CHLOROBENZENE	5.0	U
100-41-4	ETHYL BENZENE	5.0	U
100-42-5	STYRENE	5.0	U
75-25-2	BROMOFORM	5.0	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	5.0	U
67-64-1	ACETONE	50	U
75-15-0	CARBON DISULFIDE	5.0	U
78-93-3	2-BUTANONE	25	U
108-10-1	4-METHYL-2-PENTANONE (MIBK)	25	U
10061-01-5	cis-1,3-DICHLOROPROPENE	5.0	U
10061-02-6	trans-1,3-DICHLOROPROPENE	5.0	U
591-78-6	2-HEXANONE	25	U
540-59-0	1,2-DICHLOROETHENE (total)	5.0	U
1330-20-7	XYLENE (total)	10	U

FORM 1
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

01956-3

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL

Case No.:

SAS No.:

SDG No.: FTS01

Matrix: (soil/water) WATER

Lab Sample ID: MW-111

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: L262

Level: (low/med) LOW

Date Received: 03/24/00

% Moisture: not dec. _____

Date Analyzed: 03/31/00

GC Column: DB-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 3

CONCENTRATION UNITS:
 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	1.31	220	JNB R
2.	UNKNOWN	2.67	27	JJ
3.	UNKNOWN	3.04	120	JJ
4.				
5.				
6.				
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Handwritten signature and date: 1/3/01

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01956-4

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL

Case No.:

SAS No.:

SDG No.: FTS01

Matrix: (soil/water) WATER

Lab Sample ID: 4-MW-1

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: L265

Level: (low/med) LOW

Date Received: 03/24/00

% Moisture: not dec. _____

Date Analyzed: 03/31/00

GC Column: DB-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

74-87-3-----	CHLOROMETHANE	10	U
75-01-4-----	VINYL CHLORIDE	10	U
74-83-9-----	BROMOMETHANE	10	U
75-00-3-----	CHLOROETHANE	10	U
75-35-4-----	1 1-DICHLOROETHENE	5.0	U
75-09-2-----	METHYLENE CHLORIDE	5.0	U
75-34-3-----	1 1-DICHLOROETHANE	5.0	U
67-66-3-----	CHLOROFORM	5.0	U
71-55-6-----	1 1 1-TRICHLOROETHANE	5.0	U
56-23-5-----	CARBON TETRACHLORIDE	5.0	U
71-43-2-----	BENZENE	5.0	U
107-06-2-----	1 2-DICHLOROETHANE	5.0	U
79-01-6-----	TRICHLOROETHENE	5.0	U
78-87-5-----	1 2-DICHLOROPROPANE	5.0	U
75-27-4-----	BROMODICHLOROMETHANE	5.0	U
108-88-3-----	TOLUENE	5.0	U
79-00-5-----	1 1 2-TRICHLOROETHANE	5.0	U
127-18-4-----	TETRACHLOROETHENE	5.0	U
124-48-1-----	DIBROMOCHLOROMETHANE	5.0	U
108-90-7-----	CHLOROBENZENE	5.0	U
100-41-4-----	ETHYL BENZENE	5.0	U
100-42-5-----	STYRENE	5.0	U
75-25-2-----	BROMOFORM	5.0	U
79-34-5-----	1 1 2 2-TETRACHLOROETHANE	5.0	U
67-64-1-----	ACETONE	50	U
75-15-0-----	CARBON DISULFIDE	5.0	U
78-93-3-----	2-BUTANONE	25	U
108-10-1-----	4-METHYL-2-PENTANONE (MIBK)	25	U
10061-01-5-----	cis-1,3-DICHLOROPROPENE	5.0	U
10061-02-6-----	trans-1,3-DICHLOROPROPENE	5.0	U
591-78-6-----	2-HEXANONE	25	U
540-59-0-----	1,2-DICHLOROETHENE (total)	5.0	U
1330-20-7-----	XYLENE (total)	10	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

01956-4

Lab Name: SAVANNAH LABORATORIES Contract: _____

Lab Code: SL Case No.: _____ SAS No.: _____ SDG No.: FTS01

Matrix: (soil/water) WATER Lab Sample ID: 4-MW-1

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L265

Level: (low/med) LOW Date Received: 03/24/00

% Moisture: not dec. _____ Date Analyzed: 03/31/00

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 5 CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	1.33	160	JNB R
2.	UNKNOWN	1.62	54	J
3.	UNKNOWN	2.07	20	JB B
4.	UNKNOWN	2.56	27	J
5.	UNKNOWN	3.05	110	J
6.				
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DKL 1/31/01

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01956-5

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL

Case No.:

SAS No.:

SDG No.: FTS01

Matrix: (soil/water) WATER

Lab Sample ID: 4-MW-1D

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: L266

Level: (low/med) LOW

Date Received: 03/24/00

% Moisture: not dec. _____

Date Analyzed: 03/31/00

GC Column: DB-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

74-87-3-----	CHLOROMETHANE	10	U
75-01-4-----	VINYL CHLORIDE	10	U
74-83-9-----	BROMOMETHANE	10	U
75-00-3-----	CHLOROETHANE	10	U
75-35-4-----	1 1-DICHLOROETHENE	5.0	U
75-09-2-----	METHYLENE CHLORIDE	5.0	U
75-34-3-----	1 1-DICHLOROETHANE	5.0	U
67-66-3-----	CHLOROFORM	5.0	U
71-55-6-----	1 1 1-TRICHLOROETHANE	5.0	U
56-23-5-----	CARBON TETRACHLORIDE	5.0	U
71-43-2-----	BENZENE	5.0	U
107-06-2-----	1 2-DICHLOROETHANE	5.0	U
79-01-6-----	TRICHLOROETHENE	5.0	U
78-87-5-----	1 2-DICHLOROPROPANE	5.0	U
75-27-4-----	BROMODICHLOROMETHANE	5.0	U
108-88-3-----	TOLUENE	5.0	U
79-00-5-----	1 1 2-TRICHLOROETHANE	5.0	U
127-18-4-----	TETRACHLOROETHENE	5.0	U
124-48-1-----	DIBROMOCHLOROMETHANE	5.0	U
108-90-7-----	CHLOROBENZENE	5.0	U
100-41-4-----	ETHYL BENZENE	5.0	U
100-42-5-----	STYRENE	5.0	U
75-25-2-----	BROMOFORM	5.0	U
79-34-5-----	1 1 2 2-TETRACHLOROETHANE	5.0	U
67-64-1-----	ACETONE	10	J
75-15-0-----	CARBON DISULFIDE	5.0	U
78-93-3-----	2-BUTANONE	25	U
108-10-1-----	4-METHYL-2-PENTANONE (MIBK)	25	U
10061-01-5-----	cis-1,3-DICHLOROPROPENE	5.0	U
10061-02-6-----	trans-1,3-DICHLOROPROPENE	5.0	U
591-78-6-----	2-HEXANONE	25	U
540-59-0-----	1,2-DICHLOROETHENE (total)	5.0	U
1330-20-7-----	XYLENE (total)	10	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

01956-5

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL

Case No.:

SAS No.:

SDG No.: FTS01

Matrix: (soil/water) WATER

Lab Sample ID: 4-MW-1D

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: L266

Level: (low/med) LOW

Date Received: 03/24/00

% Moisture: not dec. _____

Date Analyzed: 03/31/00

GC Column: DB-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	1.33	120	JNB R
2.	UNKNOWN	1.48	54	J J
3.	UNKNOWN	2.06	21	J B
4.	UNKNOWN	2.61	180	J J
5.				
6.				
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30.				

BKJ 1/3/01

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01956-6

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL

Case No.:

SAS No.:

SDG No.: FTS01

Matrix: (soil/water) WATER

Lab Sample ID: 010D-TRIP BLANK

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: L259

Level: (low/med) LOW

Date Received: 03/24/00

% Moisture: not dec. _____

Date Analyzed: 03/31/00

GC Column: DB-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	10	U
75-01-4	VINYL CHLORIDE	10	U
74-83-9	BROMOMETHANE	10	U
75-00-3	CHLOROETHANE	10	U
75-35-4	1 1-DICHLOROETHENE	5.0	U
75-09-2	METHYLENE CHLORIDE	5.0	U
75-34-3	1 1-DICHLOROETHANE	5.0	U
67-66-3	CHLOROFORM	5.0	U
71-55-6	1 1 1-TRICHLOROETHANE	5.0	U
56-23-5	CARBON TETRACHLORIDE	5.0	U
71-43-2	BENZENE	5.0	U
107-06-2	1 2-DICHLOROETHANE	5.0	U
79-01-6	TRICHLOROETHENE	5.0	U
78-87-5	1 2-DICHLOROPROPANE	5.0	U
75-27-4	BROMODICHLOROMETHANE	5.0	U
108-88-3	TOLUENE	5.0	U
79-00-5	1 1 2-TRICHLOROETHANE	5.0	U
127-18-4	TETRACHLOROETHENE	5.0	U
124-48-1	DIBROMOCHLOROMETHANE	5.0	U
108-90-7	CHLOROBENZENE	5.0	U
100-41-4	ETHYL BENZENE	5.0	U
100-42-5	STYRENE	5.0	U
75-25-2	BROMOFORM	5.0	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	5.0	U
67-64-1	ACETONE	50	U
75-15-0	CARBON DISULFIDE	5.0	U
78-93-3	2-BUTANONE	25	U
108-10-1	4-METHYL-2-PENTANONE (MIBK)	25	U
10061-01-5	cis-1,3-DICHLOROPROPENE	5.0	U
10061-02-6	trans-1,3-DICHLOROPROPENE	5.0	U
591-78-6	2-HEXANONE	25	U
540-59-0	1,2-DICHLOROETHENE (total)	5.0	U
1330-20-7	XYLENE (total)	10	U



To: Anthony Pace
Sr. Project Engineer – Malcolm Pirnie, Inc.

From: Daniel K. Fournier *DKF* Mary Bitka *MB*
Chemist – URS Project Manager – URS

Date: January 30, 2001

Subject: Organic/Inorganic Data Validation Report for
Fort Story, Virginia Beach, Virginia
March 24 to June 3, 2000 Sampling Event – SDG Nos. FTS02 and FTS03

Data Validation Narrative

Thirty-two soil samples, four field duplicates, and five matrix spike/matrix spike duplicates (MS/MSD) were collected on March 24, 2000 and June 3, 2000 at Fort Story and analyzed by Severn Trent Laboratories, Inc. of Savannah, Georgia. One hundred percent of the data were validated manually to USEPA Region III Levels M-3 and IM-2, which are equivalent to data Level IV.

The data packages were reviewed following USEPA guidelines presented in *Region III Modifications to National Functional Guidelines for Organic Data Review*, dated September 1994; *Region III Modifications to Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses*, dated April 1993; and *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, Final Update III*, June 1997.

The text of this report only addresses those problems that affect data usability. The following appendices are included with this Data Validation Report:

Appendices:

Appendix A – Glossary of Data Qualifiers
Appendix B – Data Summary Forms (Forms 1s)
Appendix C – Support Documentation

Overview

Thirty-two soil samples, four field duplicates, and five matrix spike/matrix spike duplicates (MS/MSD) were collected on March 24, 2000 and June 3, 2000 at Fort Story and analyzed by Severn Trent Laboratories, Inc. of Savannah, Georgia. Sample identification summaries [on a per sample delivery group (SDG) basis] are presented in Tables 1 and 2. The samples were analyzed for the following parameters.

<u>Parameter</u>	<u>Method No.</u>
TCL Pesticides	SW8081A
TCL Polychlorinated Biphenyls (PCBs)	SW8082

The analytical results were reported in accordance with USEPA CLP, and reported in laboratory SDG numbers FTS02 and FTS03.

One hundred percent of the samples were validated to USEPA Region III Levels M-3 and IM-2. A glossary of data qualifiers is presented in Appendix A.

All soil sample concentrations were below the 10-day "Chemical Health Advisory Levels" listed in the USEPA Region III validation guidelines.

Summary

The samples were successfully analyzed, with exceptions noted in subsequent sections of this report. Copies of the validated laboratory results (Form 1s) are presented in Appendix B.

Major Problems

Major problems are those considered to have a serious effect on the usability of the data. There were no major problems with the data.

Minor Problems

Minor problems are those that reflect biases identified during the data review, which may result in the qualification of sample results as estimated ("J/UJ"), biased low ("L/UL"), or biased high ("K").

SDG No. FTS02:

- The initial PCB analysis for soil sample LARC60-SS3 is rejected "R" because of low surrogate recoveries for tetrachloro-m-xylene (TCX) (<10%) and decachlorobiphenyl (DCB) on both columns. The initial extraction data (i.e., Form I) has been crossed out. The sample was re-extracted with compliant surrogate recoveries, which indicates a laboratory problem. The results were qualified "UJ" because holding time for re-extraction was grossly exceeded. Supporting documentation (i.e., Table C-2, laboratory extraction log page, and the laboratory Form 2) is presented in Appendix C.

- The PCB analysis for soil sample LARC60-SS8 exhibited low surrogate recoveries for TCX on both columns and exhibited low surrogate recovery for DCB on one column . The non-detect results were qualified as low biased “UL”. Supporting documentation (i.e., Table C-2 and the laboratory Form 2) is presented in Appendix C.
- The PCB analyses for soil samples LARC60-SS4, LARC60-SS5, LARC60-SS6, and LARC60-SS7 exhibited low surrogate recoveries for TCX on both columns. The results were qualified as estimated (“J/UJ”). Supporting documentation (i.e., Table C-2 and the laboratory Form 2) is presented in Appendix C.

SDG No. FTS03:

- The 4,4'-DDT results for all soil samples (except LARC60-SS1, LARC60-SS2, and LARC60-SS2D) were qualified as estimated (“J”) due to the continuing calibration percent difference (%D) exceeding QC limits. Supporting documentation (i.e., Table C-1 and laboratory Form 7) is presented in Appendix C.
- The alpha-chlordane results for soil samples FTA-SS6 and LARC60-SS3 and the heptachlor epoxide results for soil sample FTA-SS3 exceeded 25%D between the dual-column analyses for pesticides. The detected results were qualified as estimated (“J”). Supporting documentation (i.e., laboratory Form 10) is presented in Appendix C.
- The 4,4'-DDT results for soil samples FTA-SS1, LARC60-SS2, and LARC60-SS7; and the 4,4'-DDD results for soil sample LACR60-SS6 exceeded 25%D between the dual-column analyses for pesticides. The detected results were qualified as estimated (“J”). Supporting documentation (i.e., laboratory Form 10) is presented in Appendix C.
- The gamma-chlordane results for soil samples FTA-SS7, FTA-SS8, LARC60-SS3, and LARC60-SS7; and the beta-BHC results for soil sample LACR60-SS2 exceeded 25%D between the dual-column analyses for pesticides. The detected results were qualified as estimated (“J”). Supporting documentation (i.e., laboratory Form 10) is presented in Appendix C.
- The dieldrin results for soil sample LARC60-SS7 exceeded 25%D between the dual-column analyses for pesticides. The detected results were qualified as estimated (“J”). Supporting documentation (i.e., laboratory Form 10) is presented in Appendix C.

TABLE 1
SAMPLE IDENTIFICATION SUMMARY
FORT STORY, VIRGINIA BEACH, VIRGINIA SITE
SDG NO. FTS02

Field Sample No.	Date Collected	Matrix	Parameters Analyzed	Notes
FTA-SS1	03/24/00	Soil	A	---
FTA-SS1D	03/24/00	Soil	A	Field Duplicate
FTA-SS2	03/24/00	Soil	A	---
FTA-SS3	03/24/00	Soil	A	---
FTA-SS4	03/24/00	Soil	A	---
FTA-SS5	03/24/00	Soil	A	---
FTA-SS6	03/24/00	Soil	A	---
FTA-SS7	03/24/00	Soil	A	MS/MSD
FTA-SS8	03/24/00	Soil	A	---
LARC60-SS1	03/24/00	Soil	A	---
LARC60-SS1D	03/24/00	Soil	A	Field Duplicate
LARC60-SS2	03/24/00	Soil	A	---
LARC60-SS3	03/24/00	Soil	A	MS/MSD*
LARC60-SS4	03/24/00	Soil	A	---
LARC60-SS5	03/24/00	Soil	A	---
LARC60-SS6	03/24/00	Soil	A	---
LARC60-SS7	03/24/00	Soil	A	MS/MSD
LARC60-SS8	03/24/00	Soil	A	---

Notes:

A - Analytical parameters include TCL PCBs only.
MS/MSD*-Re-extracted sample only
MS/MSD - Matrix Spike/Matrix Spike Duplicate

TABLE 2
SAMPLE IDENTIFICATION SUMMARY
FORT STORY, VIRGINIA BEACH, VIRGINIA SITE
SDG NO. FTS03

Field Sample No.	Date Collected	Matrix	Parameters Analyzed	Notes
FTA-SS1	06/03/00	Soil	A	---
FTA-SS1D	06/03/00	Soil	A	Field Duplicate
FTA-SS2	06/03/00	Soil	A	MS/MSD
FTA-SS3	06/03/00	Soil	A	---
FTA-SS4	06/03/00	Soil	A	---
FTA-SS5	06/03/00	Soil	A	---
FTA-SS6	06/03/00	Soil	A	---
FTA-SS7	06/03/00	Soil	A	---
FTA-SS8	06/03/00	Soil	A	---
LARC60-SS1	06/03/00	Soil	A	MS/MSD
LARC60-SS2	06/03/00	Soil	A	---
LARC60-SS2D	06/03/00	Soil	A	Field Duplicate
LARC60-SS3	06/03/00	Soil	A	---
LARC60-SS4	06/03/00	Soil	A	---
LARC60-SS5	06/03/00	Soil	A	---
LARC60-SS6	06/03/00	Soil	A	---
LARC60-SS7	06/03/00	Soil	A	---
LARC60-SS8	06/03/00	Soil	A	---

Notes:

A - Analytical parameters include TCL Pesticides only.
MS/MSD - Matrix Spike/Matrix Spike Duplicate

Notes

Sample Custody Documentation

All samples were received at the laboratory intact and under proper chain-of-custody.

Blank Review

No target compounds were detected in the laboratory blank samples.

Field Duplicate Precision

Tables 3 and 4 summarize the results for the field duplicate analyses (detections only) of samples FTA-SS1 and LARC60-SS2, respectively. In accordance with USEPA Region III validation guidelines, no qualification of the data was made based on field duplicate precision.

Matrix Spike/Matrix Spike Duplicate Accuracy and Precision

The pesticide and PCB MS/MSD analyses generally exhibited good precision and accuracy. The associated laboratory control samples (LCSs) were within QC limits. No further qualifiers were applied to the sample data, because USEPA Region III does not require qualification based upon MS/MSD outliers alone. Supporting documentation (i.e., Table C-3 and laboratory Form 3s) is presented in Appendix C.

**TABLE 3
FIELD DUPLICATE PRECISION
FORT STORY, VIRGINIA BEACH, VIRGINIA SITE
SDG NO. FTS03**

PRIMARY SAMPLE ID	FIELD DUPLICATE SAMPLE ID	COMPOUND	PRIMARY/DUPLICATE COMPOUND CONCENTRATION (µg/kg)	RPD
FTA-SS1	FTA-SS1D	4,4'-DDT	ND/0.9	N/C

ND – Non-Detect
N/C – Not Calculable

TABLE 4
FIELD DUPLICATE PRECISION
FORT STORY, VIRGINIA BEACH, VIRGINIA SITE
SDG NO. FTS03

PRIMARY SAMPLE ID	FIELD DUPLICATE SAMPLE ID	COMPOUND	PRIMARY/DUPLICATE COMPOUND CONCENTRATION (ug/kg)	RPD
LARC60-SS2	LARC60-SS2D	Beta-BHC	1.6/ND	N/C
		4,4'-DDT	0.55/ND	N/C

ND – Non-Detect
N/C – Not Calculable

APPENDIX A

GLOSSARY OF DATA QUALIFIERS

GLOSSARY OF DATA QUALIFIERS

For the purposes of Region III Data Validation, the following code letters and associated definitions are provided:

- U** - Not detected. The associated number indicates approximate sample concentration necessary to be detected.
- B** - Not detected substantially above the level reported in the laboratory or field blanks.
- R** - Unreliable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.
- J** - Analyte present. Reported value may not be accurate or precise.
- K** - Analyte present. Reported value may be biased high. Actual value is expected lower.
- L** - Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- N** - Tentative identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.
- UJ** - Not detected. Quantitation limit may be inaccurate or imprecise.
- UL** - Not detected. Quantitation limit is probably higher.
- NJ** - Qualitative identification questionable due to poor resolution. Presumptively present at an approximate quantity.
- D** - The reported value is from a secondary dilution.

APPENDIX B

**DATA SUMMARY FORMS
(Form 1s)**

SDG NO. FTS02

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998A-8

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL-SAV

Case No.:

SAS No.:

SDG No.: FTS02

Matrix: (soil/water) SOIL

Lab Sample ID: FTA-SS1

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: CAP08014

% Moisture: 10 decanted: (Y/N) N

Date Received: 03/28/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 03/30/00

Concentrated Extract Volume: 10 (mL)

Date Analyzed: 04/08/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG

Q

12674-11-2-----	Aroclor-1016	36	U
11104-28-2-----	Aroclor-1221	73	U
11141-16-5-----	Aroclor-1232	36	U
53469-21-9-----	Aroclor-1242	36	U
12672-29-6-----	Aroclor-1248	36	U
11097-69-1-----	Aroclor-1254	36	U
11096-82-5-----	Aroclor-1260	36	U

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998A-9

Lab Name: SAVANNAH LABORATORIES Contract:
 Lab Code: SL-SAV Case No.: SAS No.: SDG No.: FTS02
 Matrix: (soil/water) SOIL Lab Sample ID: FTA-SS1D
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: CAP08015
 % Moisture: 10 decanted: (Y/N) N Date Received: 03/28/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 04/08/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
12674-11-2	Aroclor-1016	37	U	
11104-28-2	Aroclor-1221	74	U	
11141-16-5	Aroclor-1232	37	U	
53469-21-9	Aroclor-1242	37	U	
12672-29-6	Aroclor-1248	37	U	
11097-69-1	Aroclor-1254	37	U	
11096-82-5	Aroclor-1260	37	U	

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998A-7

Lab Name: SAVANNAH LABORATORIES Contract:
 Lab Code: SL-SAV Case No.: SAS No.: SDG No.: FTS02
 Matrix: (soil/water) SOIL Lab Sample ID: FTA-SS2
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: CAP08013
 % Moisture: 5 decanted: (Y/N) N Date Received: 03/28/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 04/08/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
12674-11-2-----	Aroclor-1016	35	U	
11104-28-2-----	Aroclor-1221	70	U	
11141-16-5-----	Aroclor-1232	35	U	
53469-21-9-----	Aroclor-1242	35	U	
12672-29-6-----	Aroclor-1248	35	U	
11097-69-1-----	Aroclor-1254	35	U	
11096-82-5-----	Aroclor-1260	35	U	

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998A-6

Lab Name: SAVANNAH LABORATORIES Contract:
 Lab Code: SL-SAV Case No.: SAS No.: SDG No.: FTS02
 Matrix: (soil/water) SOIL Lab Sample ID: FTA-SS3
 Sample wt/vol: 30.2 (g/mL) G Lab File ID: CAP08012
 % Moisture: 5 decanted: (Y/N) N Date Received: 03/28/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 04/08/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
12674-11-2-----	Aroclor-1016	34	U	
11104-28-2-----	Aroclor-1221	70	U	
11141-16-5-----	Aroclor-1232	34	U	
53469-21-9-----	Aroclor-1242	34	U	
12672-29-6-----	Aroclor-1248	34	U	
11097-69-1-----	Aroclor-1254	34	U	
11096-82-5-----	Aroclor-1260	34	U	

FORM 1
PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998A-5

Lab Name: SAVANNAH LABORATORIES Contract: _____

Lab Code: SL-SAV Case No.: _____ SAS No.: _____ SDG No.: FTS02

Matrix: (soil/water) SOIL Lab Sample ID: FTA-SS4

Sample wt/vol: 30.5 (g/mL) G Lab File ID: CAP08011

% Moisture: 8 decanted: (Y/N) N Date Received: 03/28/00

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/00

Concentrated Extract Volume: 10 (mL) Date Analyzed: 04/08/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2-----	Aroclor-1016	35	U
11104-28-2-----	Aroclor-1221	72	U
11141-16-5-----	Aroclor-1232	35	U
53469-21-9-----	Aroclor-1242	35	U
12672-29-6-----	Aroclor-1248	35	U
11097-69-1-----	Aroclor-1254	35	U
11096-82-5-----	Aroclor-1260	35	U

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998A-2

Lab Name: SAVANNAH LABORATORIES Contract:
 Lab Code: SL-SAV Case No.: SAS No.: SDG No.: FTS02
 Matrix: (soil/water) SOIL Lab Sample ID: FTA-SS5
 Sample wt/vol: 30.2 (g/mL) G Lab File ID: CAP08008
 % Moisture: 9 decanted: (Y/N) N Date Received: 03/28/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 04/08/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG Q

12674-11-2-----	Aroclor-1016	36	U
11104-28-2-----	Aroclor-1221	73	U
11141-16-5-----	Aroclor-1232	36	U
53469-21-9-----	Aroclor-1242	36	U
12672-29-6-----	Aroclor-1248	36	U
11097-69-1-----	Aroclor-1254	36	U
11096-82-5-----	Aroclor-1260	36	U

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998A-1

Lab Name: SAVANNAH LABORATORIES Contract:
 Lab Code: SL-SAV Case No.: SAS No.: SDG No.: FTS02
 Matrix: (soil/water) SOIL Lab Sample ID: FTA-SS6
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: CAP08007
 % Moisture: 10 decanted: (Y/N) N Date Received: 03/28/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 04/08/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
12674-11-2-----	Aroclor-1016	37	U	
11104-28-2-----	Aroclor-1221	74	U	
11141-16-5-----	Aroclor-1232	37	U	
53469-21-9-----	Aroclor-1242	37	U	
12672-29-6-----	Aroclor-1248	37	U	
11097-69-1-----	Aroclor-1254	37	U	
11096-82-5-----	Aroclor-1260	37	U	

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998A-4

Lab Name: SAVANNAH LABORATORIES Contract:
 Lab Code: SL-SAV Case No.: SAS No.: SDG No.: FTS02
 Matrix: (soil/water) SOIL Lab Sample ID: FTA-SS7
 Sample wt/vol: 30.2 (g/mL) G Lab File ID: CAP08010
 % Moisture: 10 decanted: (Y/N) N Date Received: 03/28/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 04/08/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG Q

12674-11-2-----	Aroclor-1016	36	U
11104-28-2-----	Aroclor-1221	74	U
11141-16-5-----	Aroclor-1232	36	U
53469-21-9-----	Aroclor-1242	36	U
12672-29-6-----	Aroclor-1248	36	U
11097-69-1-----	Aroclor-1254	36	U
11096-82-5-----	Aroclor-1260	36	U

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998A-3

Lab Name: SAVANNAH LABORATORIES Contract:
 Lab Code: SL-SAV Case No.: SAS No.: SDG No.: FTS02
 Matrix: (soil/water) SOIL Lab Sample ID: FTA-SS8
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: CAP08009
 % Moisture: 18 decanted: (Y/N) N Date Received: 03/28/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 04/08/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG Q

12674-11-2-----	Aroclor-1016	40	U
11104-28-2-----	Aroclor-1221	82	U
11141-16-5-----	Aroclor-1232	40	U
53469-21-9-----	Aroclor-1242	40	U
12672-29-6-----	Aroclor-1248	40	U
11097-69-1-----	Aroclor-1254	40	U
11096-82-5-----	Aroclor-1260	40	U

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998A-10

Lab Name: SAVANNAH LABORATORIES Contract:
 Lab Code: SL-SAV Case No.: SAS No.: SDG No.: FTS02
 Matrix: (soil/water) SOIL Lab Sample ID: LARC60-SS1
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: CAP08016
 % Moisture: 2 decanted: (Y/N) N Date Received: 03/28/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 04/08/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG Q

12674-11-2-----	Aroclor-1016	34	U
11104-28-2-----	Aroclor-1221	68	U
11141-16-5-----	Aroclor-1232	34	U
53469-21-9-----	Aroclor-1242	34	U
12672-29-6-----	Aroclor-1248	34	U
11097-69-1-----	Aroclor-1254	34	U
11096-82-5-----	Aroclor-1260	34	U

FORM 1
PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998A-11

Lab Name: SAVANNAH LABORATORIES Contract: _____

Lab Code: SL-SAV Case No.: _____ SAS No.: _____ SDG No.: FTS02

Matrix: (soil/water) SOIL Lab Sample ID: LARC60-SS1D

Sample wt/vol: 30.2 (g/mL) G Lab File ID: CAP08017

% Moisture: 3 decanted: (Y/N) N Date Received: 03/28/00

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/00

Concentrated Extract Volume: 10 (mL) Date Analyzed: 04/08/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

12674-11-2-----	Aroclor-1016	34	U
11104-28-2-----	Aroclor-1221	69	U
11141-16-5-----	Aroclor-1232	34	U
53469-21-9-----	Aroclor-1242	34	U
12672-29-6-----	Aroclor-1248	34	U
11097-69-1-----	Aroclor-1254	34	U
11096-82-5-----	Aroclor-1260	34	U

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998A-12

Lab Name: SAVANNAH LABORATORIES Contract:
 Lab Code: SL-SAV Case No.: SAS No.: SDG No.: FTS02
 Matrix: (soil/water) SOIL Lab Sample ID: LARC60-SS2
 Sample wt/vol: 30.3 (g/mL) G Lab File ID: CAP08018
 % Moisture: 0 decanted: (Y/N) N Date Received: 03/28/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 04/08/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
12674-11-2-----	Aroclor-1016	33	U	
11104-28-2-----	Aroclor-1221	66	U	
11141-16-5-----	Aroclor-1232	33	U	
53469-21-9-----	Aroclor-1242	33	U	
12672-29-6-----	Aroclor-1248	33	U	
11097-69-1-----	Aroclor-1254	33	U	
11096-82-5-----	Aroclor-1260	33	U	

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998A-16

Lab Name: SAVANNAH LABORATORIES Contract:
 Lab Code: SL-SAV Case No.: SAS No.: SDG No.: FTS02
 Matrix: (soil/water) SOIL Lab Sample ID: LARC60-SS3
 Sample wt/vol: 30.2 (g/mL) G Lab File ID: CAP08022
 % Moisture: 1 decanted: (Y/N) N Date Received: 03/28/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 04/08/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
12674-11-2	Aroclor-1016	33	U	
11104-28-2	Aroclor-1221	67	U	
11141-16-5	Aroclor-1232	33	U	
53469-21-9	Aroclor-1242	33	U	
12672-29-6	Aroclor-1248	33	U	
11097-69-1	Aroclor-1254	33	U	
11096-82-5	Aroclor-1260	33	U	

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11/5/01

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998A-16RE

Lab Name: SAVANNAH LABORATORIES Contract:
 Lab Code: SL-SAV Case No.: SAS No.: SDG No.: FTS02
 Matrix: (soil/water) SOIL Lab Sample ID: LARC60-SS3
 Sample wt/vol: 30.1 (g/mL) G Lab File ID: CAP25116
 % Moisture: 1 decanted: (Y/N) N Date Received: 03/28/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/25/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 04/28/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
12674-11-2-----	Aroclor-1016	33	U	JS
11104-28-2-----	Aroclor-1221	67	U	
11141-16-5-----	Aroclor-1232	33	U	
53469-21-9-----	Aroclor-1242	33	U	
12672-29-6-----	Aroclor-1248	33	U	
11097-69-1-----	Aroclor-1254	33	U	
11096-82-5-----	Aroclor-1260	33	U	

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FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998A-15

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL-SAV

Case No.:

SAS No.:

SDG No.: FTS02

Matrix: (soil/water) SOIL

Lab Sample ID: LARC60-SS4

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: CAP08021

% Moisture: 3 decanted: (Y/N) N

Date Received: 03/28/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 03/30/00

Concentrated Extract Volume: 10 (mL)

Date Analyzed: 04/08/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG Q

12674-11-2-----Aroclor-1016	34	U	
11104-28-2-----Aroclor-1221	69	U	
11141-16-5-----Aroclor-1232	34	U	
53469-21-9-----Aroclor-1242	34	U	
12672-29-6-----Aroclor-1248	34	U	
11097-69-1-----Aroclor-1254	34	U	
11096-82-5-----Aroclor-1260	34	U	

EXL 1/5/01

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998A-18

Lab Name: SAVANNAH LABORATORIES Contract:
 Lab Code: SL-SAV Case No.: SAS No.: SDG No.: FTS02
 Matrix: (soil/water) SOIL Lab Sample ID: LARC60-SS6
 Sample wt/vol: 30.1 (g/mL) G Lab File ID: CAP08043
 % Moisture: 6 decanted: (Y/N) N Date Received: 03/28/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 04/09/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2-----	Aroclor-1016	35	W UJ HHHHHH I
11104-28-2-----	Aroclor-1221	71	
11141-16-5-----	Aroclor-1232	35	
53469-21-9-----	Aroclor-1242	35	
12672-29-6-----	Aroclor-1248	35	
11097-69-1-----	Aroclor-1254	35	
11096-82-5-----	Aroclor-1260	35	

GH
1/5/01

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998A-13

Lab Name: SAVANNAH LABORATORIES Contract:
 Lab Code: SL-SAV Case No.: SAS No.: SDG No.: FTS02
 Matrix: (soil/water) SOIL Lab Sample ID: LARC60-SS7
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: CAP08019
 % Moisture: 0 decanted: (Y/N) N Date Received: 03/28/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 04/08/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG Q

12674-11-2-----	Aroclor-1016	33	U
11104-28-2-----	Aroclor-1221	67	U
11141-16-5-----	Aroclor-1232	33	U
53469-21-9-----	Aroclor-1242	33	U
12672-29-6-----	Aroclor-1248	33	U
11097-69-1-----	Aroclor-1254	33	U
11096-82-5-----	Aroclor-1260	14	J

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FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998A-14

Lab Name: SAVANNAH LABORATORIES Contract:
 Lab Code: SL-SAV Case No.: SAS No.: SDG No.: FTS02
 Matrix: (soil/water) SOIL Lab Sample ID: LARC60-SS8
 Sample wt/vol: 30.2 (g/mL) G Lab File ID: CAP08020
 % Moisture: 3 decanted: (Y/N) N Date Received: 03/28/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 04/08/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
12674-11-2-----	Aroclor-1016	34	U	UL
11104-28-2-----	Aroclor-1221	69	U	
11141-16-5-----	Aroclor-1232	34	U	
53469-21-9-----	Aroclor-1242	34	U	
12672-29-6-----	Aroclor-1248	34	U	
11097-69-1-----	Aroclor-1254	34	U	
11096-82-5-----	Aroclor-1260	34	U	

OK
 1/5/01

SDG NO. FTS03

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

03693-1

Lab Name: SAVANNAH LABORATORIES Contract:
 Lab Code: SL-SAV Case No.: SAS No.: SDG No.: FTS03
 Matrix: (soil/water) SOIL Lab Sample ID: FTA-SS1
 Sample wt/vol: 30 (g/mL) G Lab File ID: SJN27011
 % Moisture: 4 decanted: (Y/N) N Date Received: 06/07/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/08/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 06/27/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG Q

319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.4	U
72-55-9	4,4'-DDE	0.37	J
72-20-8	Endrin	3.4	U
33213-65-9	Endosulfan II	3.4	U
72-54-8	4,4'-DDD	3.4	U
1031-07-8	Endosulfan sulfate	3.4	U
50-29-3	4,4'-DDT	0.90	J
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.4	U
7421-93-4	Endrin aldehyde	3.4	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U

Handwritten: J 12/01

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

03693-2

Lab Name: SAVANNAH LABORATORIES Contract: _____
 Lab Code: SL-SAV Case No.: _____ SAS No.: _____ SDG No.: FTS03
 Matrix: (soil/water) SOIL Lab Sample ID: FTA-SS1D
 Sample wt/vol: 30 (g/mL) G Lab File ID: SJN27012
 % Moisture: 7 decanted: (Y/N) N Date Received: 06/07/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/08/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 06/27/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.5	U
72-55-9	4,4'-DDE	3.5	U
72-20-8	Endrin	3.5	U
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	3.5	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.5	U
7421-93-4	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

03693-3

Lab Name: SAVANNAH LABORATORIES Contract: _____
 Lab Code: SL-SAV Case No.: _____ SAS No.: _____ SDG No.: FTS03
 Matrix: (soil/water) SOIL Lab Sample ID: FTA-SS2
 Sample wt/vol: 30 (g/mL) G Lab File ID: SJN27013
 % Moisture: 2 decanted: (Y/N) N Date Received: 06/07/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/08/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 06/27/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.4	U
72-55-9	4,4'-DDE	0.72	J
72-20-8	Endrin	3.4	U
33213-65-9	Endosulfan II	3.4	U
72-54-8	4,4'-DDD	3.4	U
1031-07-8	Endosulfan sulfate	3.4	U
50-29-3	4,4'-DDT	1.2	J
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.4	U
7421-93-4	Endrin aldehyde	3.4	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U

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FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

03693-4

Lab Name: SAVANNAH LABORATORIES Contract:
 Lab Code: SL-SAV Case No.: SAS No.: SDG No.: FTS03
 Matrix: (soil/water) SOIL Lab Sample ID: FTA-SS3
 Sample wt/vol: 30 (g/mL) G Lab File ID: SJN27014
 % Moisture: 4 decanted: (Y/N) N Date Received: 06/07/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/08/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 06/27/00
 Injection Volume: 2.0 (uL) Dilution Factor: 5.0
 GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG Q

319-84-6	alpha-BHC	8.8	U
319-85-7	beta-BHC	8.8	U
319-86-8	delta-BHC	8.8	U
58-89-9	gamma-BHC (Lindane)	8.8	U
76-44-8	Heptachlor	8.8	U
309-00-2	Aldrin	8.8	U
1024-57-3	Heptachlor epoxide	0.94	JF J
959-98-8	Endosulfan I	8.8	U
60-57-1	Dieldrin	17	U
72-55-9	4,4'-DDE	9.0	J
72-20-8	Endrin	17	U
33213-65-9	Endosulfan II	17	U
72-54-8	4,4'-DDD	17	U
1031-07-8	Endosulfan sulfate	17	U
50-29-3	4,4'-DDT	24	J
72-43-5	Methoxychlor	88	U
53494-70-5	Endrin ketone	17	U
7421-93-4	Endrin aldehyde	17	U
5103-71-9	alpha-Chlordane	8.8	U
5103-74-2	gamma-Chlordane	8.8	U
8001-35-2	Toxaphene	880	U

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FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

03693-5

Lab Name: SAVANNAH LABORATORIES Contract: _____
 Lab Code: SL-SAV Case No.: _____ SAS No.: _____ SDG No.: FTS03
 Matrix: (soil/water) SOIL Lab Sample ID: FTA-SS4
 Sample wt/vol: 30 (g/mL) G Lab File ID: SJN27015
 % Moisture: 1 decanted: (Y/N) N Date Received: 06/07/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/08/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 06/27/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG Q

319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	0.61	J
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	1.7	J
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	0.30	J
8001-35-2	Toxaphene	170	U

DIA 1/2/01

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

03693-6

Lab Name: SAVANNAH LABORATORIES Contract:
 Lab Code: SL-SAV Case No.: SAS No.: SDG No.: FTS03
 Matrix: (soil/water) SOIL Lab Sample ID: FTA-SS5
 Sample wt/vol: 30 (g/mL) G Lab File ID: SJN27016
 % Moisture: 3 decanted: (Y/N) N Date Received: 06/07/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/08/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 06/27/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG Q

319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.4	U
72-55-9	4,4'-DDE	3.4	U
72-20-8	Endrin	3.4	U
33213-65-9	Endosulfan II	3.4	U
72-54-8	4,4'-DDD	3.4	U
1031-07-8	Endosulfan sulfate	3.4	U
50-29-3	4,4'-DDT	1.5	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.4	U
7421-93-4	Endrin aldehyde	3.4	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U

Handwritten: 10/21/01

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

03693-7

Lab Name: SAVANNAH LABORATORIES Contract: _____
 Lab Code: SL-SAV Case No.: _____ SAS No.: _____ SDG No.: FTS03
 Matrix: (soil/water) SOIL Lab Sample ID: FTA-SS6
 Sample wt/vol: 30 (g/mL) G Lab File ID: SJN27017
 % Moisture: 7 decanted: (Y/N) N Date Received: 06/07/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/08/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 06/27/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.5	U
72-55-9	4,4'-DDE	0.58	J
72-20-8	Endrin	3.5	U
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	1.8	J
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.5	U
7421-93-4	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	0.36	J
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U

9/2 1/2/01

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

6MW-1F

Contract:

Lab Code: SLSAV

Case No.:

SAS No.:

SDG NO.: FTS01

Matrix (soil/water): WATER

Lab Sample ID: S001998-1F

Level (low/med): LOW

Date Received: 28-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	P
7440-36-0	Antimony	2.7	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-38-2	Arsenic	3.0	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-39-3	Barium	5.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	P
7440-41-7	Beryllium	0.10	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-43-9	Cadmium	0.50	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-70-2	Calcium	6300	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-47-3	Chromium	0.75	<input checked="" type="checkbox"/>	<input type="checkbox"/>	P
7440-48-4	Cobalt	0.90	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-50-8	Copper	0.90	<input type="checkbox"/>	<input type="checkbox"/>	P
7439-89-6	Iron	3700	<input type="checkbox"/>	<input type="checkbox"/>	P
7439-92-1	Lead	3.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	P
7439-95-4	Magnesium	2500	<input type="checkbox"/>	<input type="checkbox"/>	P
7439-96-5	Manganese	38	<input type="checkbox"/>	<input type="checkbox"/>	P
7439-97-6	Mercury	0.10	<input type="checkbox"/>	<input type="checkbox"/>	CV
7440-02-0	Nickel	1.1	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-09-7	Potassium	2400	<input type="checkbox"/>	<input type="checkbox"/>	P
7782-49-2	Selenium	3.4	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-22-4	Silver	0.50	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-23-5	Sodium	7300	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-28-0	Thallium	4.3	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-62-2	Vanadium	0.70	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-66-6	Zinc	3.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	P

OK 1/26/01

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments: "F" DENOTES DISSOLVED

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

6MW-35

Contract:

Lab Code: SLSAV

Case No.:

SAS No.:

SDG NO.: FTS01

Matrix (soil/water): WATER

Lab Sample ID: S001998-2

Level (low/med): LOW

Date Received: 28-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{g/L}$

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6.0	U		P
7440-36-0	Antimony	2.7	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	21			P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	17000			P
7440-47-3	Chromium	0.71	B		P
7440-48-4	Cobalt	0.90	U		P
7440-50-8	Copper	2.1	B		P
7439-89-6	Iron	2600			P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	2000			P
7439-96-5	Manganese	140			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.1	U		P
7440-09-7	Potassium	3700			P
7782-49-2	Selenium	3.4	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	16000			P
7440-28-0	Thallium	4.3	U		P
7440-62-2	Vanadium	1.9	B		P
7440-66-6	Zinc	4.9	B		P

OKD 1/26/01

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

6MW-3~~5~~F
S 9/22/01
1/21/01

Contract:

Lab Code: SLSAV

Case No.:

SAS No.:

SDG NO.: FTS01

Matrix (soil/water): WATER

Lab Sample ID: S001998-2F

Level (low/med): LOW

Date Received: 28-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10	F	F	P
7440-36-0	Antimony	5.4	F		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	21			P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	16000			P
7440-47-3	Chromium	1.0	F		P
7440-48-4	Cobalt	0.90	U		P
7440-50-8	Copper	0.90	U		P
7439-89-6	Iron	2500			P
7439-92-1	Lead	4.7	F		P
7439-95-4	Magnesium	1900			P
7439-96-5	Manganese	130			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.1	U		P
7440-09-7	Potassium	3600			P
7782-49-2	Selenium	3.4	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	15000			P
7440-28-0	Thallium	4.3	U		P
7440-62-2	Vanadium	1.5	F		P
7440-66-6	Zinc	4.0	F		P

Handwritten signature and date: 1/26/01

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments: "F" DENOTES DISSOLVED

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

6MW-35D

Contract:

Lab Code: SLSAV

Case No.:

SAS No.:

SDG NO.: FTS01

Matrix (soil/water): WATER

Lab Sample ID: S001998-3

Level (low/med): LOW

Date Received: 28-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6.0	U		P
7440-36-0	Antimony	2.7	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	22			P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	17000			P
7440-47-3	Chromium	1.1	B		P
7440-48-4	Cobalt	0.90	U		P
7440-50-8	Copper	1.9	B		P
7439-89-6	Iron	2700			P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	2100			P
7439-96-5	Manganese	140			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.1	U		P
7440-09-7	Potassium	3700			P
7782-49-2	Selenium	3.4	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	16000			P
7440-28-0	Thallium	4.3	U		P
7440-62-2	Vanadium	1.2	B		P
7440-66-6	Zinc	3.2	U		P

Handwritten signature and date: 1/26/01

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

6MW-35DF

Contract:

Lab Code: SLSAV

Case No.:

SAS No.:

SDG NO.: FTS01

Matrix (soil/water): WATER

Lab Sample ID: S001998-3F

Level (low/med): LOW

Date Received: 28-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14	E	E	P
7440-36-0	Antimony	3.5	E		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	21			P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	16000			P
7440-47-3	Chromium	1.1	E		P
7440-48-4	Cobalt	0.90	U		P
7440-50-8	Copper	0.90	U		P
7439-89-6	Iron	2500			P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	2000			P
7439-96-5	Manganese	130			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.1	U		P
7440-09-7	Potassium	3700			P
7782-49-2	Selenium	3.4	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	15000			P
7440-28-0	Thallium	4.3	U		P
7440-62-2	Vanadium	2.1	E		P
7440-66-6	Zinc	3.2	U		P

Handwritten signature and date: 1/26/01

Color Before:

Clarity Before:

Texture:

or After:

Clarity After:

Artifacts:

Comments: "F" DENOTES DISSOLVED

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-118

Contract:

Lab Code: SLSAV

Case No.:

SAS No.:

SDG NO.: FTS01

Matrix (soil/water): WATER

Lab Sample ID: S001998-4

Level (low/med): LOW

Date Received: 28-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6.0	U		P
7440-36-0	Antimony	2.7	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	5.3	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	9100			P
7440-47-3	Chromium	0.70	U		P
7440-48-4	Cobalt	0.90	U		P
7440-50-8	Copper	2.4	B		P
7439-89-6	Iron	270			P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	2800			P
7439-96-5	Manganese	4.2	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.1	U		P
7440-09-7	Potassium	3600			P
7782-49-2	Selenium	3.4	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	5300			P
7440-28-0	Thallium	4.3	U		P
7440-62-2	Vanadium	0.70	U		P
7440-66-6	Zinc	3.6	B		P

Handwritten signature and date: 1/26/01

Color Before:

Clarity Before:

Texture:

or After:

Clarity After:

Artifacts:

Comments:

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-118F

Contract:

Lab Code: SLSAV

Case No.:

SAS No.:

SDG NO.: FTS01

Matrix (soil/water): WATER

Lab Sample ID: S001998-4F

Level (low/med): LOW

Date Received: 28-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	P
7440-36-0	Antimony	2.7	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-38-2	Arsenic	3.0	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-39-3	Barium	5.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	P
7440-41-7	Beryllium	0.10	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-43-9	Cadmium	0.50	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-70-2	Calcium	8400	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-47-3	Chromium	0.70	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-48-4	Cobalt	0.90	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-50-8	Copper	0.90	<input type="checkbox"/>	<input type="checkbox"/>	P
7439-89-6	Iron	70	<input type="checkbox"/>	<input type="checkbox"/>	P
7439-92-1	Lead	3.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	P
7439-95-4	Magnesium	2600	<input type="checkbox"/>	<input type="checkbox"/>	P
7439-96-5	Manganese	3.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	P
7439-97-6	Mercury	0.10	<input type="checkbox"/>	<input type="checkbox"/>	CV
7440-02-0	Nickel	1.1	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-09-7	Potassium	3500	<input type="checkbox"/>	<input type="checkbox"/>	P
7782-49-2	Selenium	3.4	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-22-4	Silver	0.50	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-23-5	Sodium	4800	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-28-0	Thallium	4.3	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-62-2	Vanadium	0.70	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-66-6	Zinc	4.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	P

Handwritten signature and date: 1/26/01

Color Before:

Clarity Before:

Texture:

or After:

Clarity After:

Artifacts:

Comments: "F" DENOTES DISSOLVED

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-117

Contract:

Lab Code: SLSAV

Case No.:

SAS No.:

SDG NO.: FTS01

Matrix (soil/water): WATER

Lab Sample ID: S001998-5

Level (low/med): LOW

Date Received: 28-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	210			P
7440-36-0	Antimony	2.7	U		P
7440-38-2	Arsenic	21			P
7440-39-3	Barium	19			P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	20000			P
7440-47-3	Chromium	2.9	<input checked="" type="checkbox"/>		P
7440-48-4	Cobalt	0.90	U		P
7440-50-8	Copper	3.4	<input checked="" type="checkbox"/>		P
7439-89-6	Iron	17000			P
7439-92-1	Lead	4.1	<input checked="" type="checkbox"/>		P
7439-95-4	Magnesium	3100			P
7439-96-5	Manganese	110			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.1	U		P
7440-09-7	Potassium	6400			P
7782-49-2	Selenium	3.4	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	8500			P
7440-28-0	Thallium	4.3	U		P
7440-62-2	Vanadium	5.2	<input checked="" type="checkbox"/>		P
7440-66-6	Zinc	5.3	<input checked="" type="checkbox"/>		P

OK 1/26/01

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-117F

Contract:

Lab Code: SLSAV

Case No.:

SAS No.:

SDG NO.: FTS01

Matrix (soil/water): WATER

Lab Sample ID: S001998-5F

Level (low/med): LOW

Date Received: 28-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{g/L}$

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	79	B	E	P
7440-36-0	Antimony	2.7	U		P
7440-38-2	Arsenic	14			P
7440-39-3	Barium	17			P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	18000			P
7440-47-3	Chromium	2.7	B		P
7440-48-4	Cobalt	0.90	U		P
7440-50-8	Copper	0.90	U		P
7439-89-6	Iron	15000			P
7439-92-1	Lead	4.1	B		P
7439-95-4	Magnesium	2800			P
7439-96-5	Manganese	96			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.1	U		P
7440-09-7	Potassium	6200			P
7782-49-2	Selenium	3.4	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	7800			P
7440-28-0	Thallium	4.3	U		P
7440-62-2	Vanadium	4.3	B		P
7440-66-6	Zinc	46			P

JL 1/26/01

Color Before:

Clarity Before:

Texture:

or After:

Clarity After:

Artifacts:

Comments: "F" DENOTES DISSOLVED

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-115

Contract:

Lab Code: SLSAV

Case No.:

SAS No.:

SDG NO.: FTS01

Matrix (soil/water): WATER

Lab Sample ID: S001998-6

Level (low/med): LOW

Date Received: 28-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6.0	U		P
7440-36-0	Antimony	2.7	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	16			P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	5.4			P
7440-70-2	Calcium	18000			P
7440-47-3	Chromium	0.70	U		P
7440-48-4	Cobalt	0.90	U		P
7440-50-8	Copper	14	B		P
7439-89-6	Iron	6900			P
7439-92-1	Lead	4.7	B		P
7439-95-4	Magnesium	1500			P
7439-96-5	Manganese	290			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.1	U		P
7440-09-7	Potassium	5000			P
7782-49-2	Selenium	3.4	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	9300			P
7440-28-0	Thallium	4.3	U		P
7440-62-2	Vanadium	1.5	B		P
7440-66-6	Zinc	29			P

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-115F
OK 11/21/01

Contract:

Lab Code: SLSAV

Case No.:

SAS No.:

SDG NO.: FTS01

Matrix (soil/water): WATER

Lab Sample ID: S001998-6F

Level (low/med): LOW

Date Received: 28-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	P
7440-36-0	Antimony	2.7	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-38-2	Arsenic	3.0	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-39-3	Barium	16	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-41-7	Beryllium	0.10	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-43-9	Cadmium	0.50	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-70-2	Calcium	17000	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-47-3	Chromium	1.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	P
7440-48-4	Cobalt	0.90	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-50-8	Copper	0.90	<input type="checkbox"/>	<input type="checkbox"/>	P
7439-89-6	Iron	3600	<input type="checkbox"/>	<input type="checkbox"/>	P
7439-92-1	Lead	2.4	<input type="checkbox"/>	<input type="checkbox"/>	P
7439-95-4	Magnesium	1400	<input type="checkbox"/>	<input type="checkbox"/>	P
7439-96-5	Manganese	270	<input type="checkbox"/>	<input type="checkbox"/>	P
7439-97-6	Mercury	0.10	<input type="checkbox"/>	<input type="checkbox"/>	CV
7440-02-0	Nickel	1.1	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-09-7	Potassium	5000	<input type="checkbox"/>	<input type="checkbox"/>	P
7782-49-2	Selenium	3.4	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-22-4	Silver	0.50	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-23-5	Sodium	8800	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-28-0	Thallium	4.3	<input type="checkbox"/>	<input type="checkbox"/>	P
7440-62-2	Vanadium	1.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	P
7440-66-6	Zinc	4.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	P

UJ

B

B

OK 11/21/01

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments: "F" DENOTES DISSOLVED

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

6MW-4

Contract:

Lab Code: SLSAV

Case No.:

SAS No.:

SDG NO.: FTS01

Matrix (soil/water): WATER

Lab Sample ID: S001998-7

Level (low/med): LOW

Date Received: 28-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	260			P
7440-36-0	Antimony	2.7	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	17			P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	13000			P
7440-47-3	Chromium	2.4	B		P
7440-48-4	Cobalt	0.90	U		P
7440-50-8	Copper	2.9	B		P
7439-89-6	Iron	1300			P
7439-92-1	Lead	2.6	B		P
7439-95-4	Magnesium	9100			P
7439-96-5	Manganese	76			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.1	U		P
7440-09-7	Potassium	4400			P
7782-49-2	Selenium	3.4	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	69000			P
7440-28-0	Thallium	4.3	U		P
7440-62-2	Vanadium	9.5	B		P
7440-66-6	Zinc	5.4	B		P

OK 1/26/01

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

GMW-4F

Contract:

Lab Code: SLSAV

Case No.:

SAS No.:

SDG NO.: FIS01

Matrix (soil/water): WATER

Lab Sample ID: S001998-7F

Level (low/med): LOW

Date Received: 28-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	300		E	P
7440-36-0	Antimony	2.8	B		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	17			P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	12000			P
7440-47-3	Chromium	2.6	B		P
7440-48-4	Cobalt	0.90	U		P
7440-50-8	Copper	30			P
7439-89-6	Iron	1200			P
7439-92-1	Lead	4.5	B		P
7439-95-4	Magnesium	8700			P
7439-96-5	Manganese	72			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.1	U		P
7440-09-7	Potassium	4500			P
7782-49-2	Selenium	3.4	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	66000			P
7440-28-0	Thallium	4.3	U		P
7440-62-2	Vanadium	9.6	B		P
7440-66-6	Zinc	20	B		P

OK 1/26/01

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments: "F" DENOTES DISSOLVED

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-106

Contract:

Lab Code: SLSAV Case No.: SAS No.: SDG NO.: FTS01

Matrix (soil/water): WATER Lab Sample ID: S001998-9

Level (low/med): LOW Date Received: 28-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	2.8	<input checked="" type="checkbox"/>		P

OK
1/26/01

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-106F

Contract:

Lab Code: SLSAV

Case No.:

SAS No.:

SDG NO.: FTS01

Matrix (soil/water): WATER

Lab Sample ID: S001998-9F

Level (low/med): LOW

Date Received: 28-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): μ G/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.50	U		P

Color Before:

Clarity Before:

Texture:

or After:

Clarity After:

Artifacts:

Comments:

LOG NO: S0-01956
Received: 24 MAR 00

Mr. Anthony Pace
Malcolm Pirnie
11832 Rock Landing Drive Suite 400
Newport News, VA 23606

Project: Ft. Story 0285-783/Remedial Investigation/FTS01
Sampled By: Client
Code: 105300414
Page 1

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
01956-1	MW-112	03-22-00/11:20	FTS01
01956-2	MW-114A	03-22-00/12:10	FTS01
01956-3	MW-111	03-22-00/13:32	FTS01
01956-4	4-MW-1	03-22-00/15:15	FTS01
01956-5	4-MW-1D	03-22-00/15:15	FTS01

PARAMETER	01956-1	01956-2	01956-3	01956-4	01956-5
Total Dissolved Solids (160.1), mg/l	120	220	91	62	62
Dilution Factor	1	1	1	1	1
Prep Date	03.28.00	03.28.00	03.28.00	03.28.00	03.28.00
Analysis Date	03.29.00	03.29.00	03.29.00	03.29.00	03.29.00
Batch ID	0328A	0328A	0328A	0328A	0328A

Linda A. Wolfe, Project Manager

000010

LOG NO: S0-FTS01
Received: 24 MAR 00

Mr. Anthony Pace
Malcolm Pirnie
11832 Rock Landing Drive Suite 400
Newport News, VA 23606

Project: Ft. Story 0285-783/Remedial Investigation/FTS01
Sampled By: Client
Code: 105500414
Page 1

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
FTS01-1	Method Blank		FTS01
PARAMETER		FTS01-1	
Total Dissolved Solids (160.1), mg/l		5.0U	
Dilution Factor		1	
Prep Date		03.28.00	
Analysis Date		03.29.00	
Batch ID		0328A	

Methods: EPA SW-846, Update III.

Linda A. Wolfe, Project Manager

000011

LOG NO: S0-01998
Received: 28 MAR 00

Mr. Anthony Pace
Malcolm Pirnie
11832 Rock Landing Drive Suite 400
Newport News, VA 23606

Project: Ft. Story 0285-783/Remedial Investigation/FTS01
Sampled By: Client
Code: 105400414
Page 1

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
01998-1	6MW-1	03-23-00/14:15	FTS01
01998-2	6MW-35	03-23-00/14:50	FTS01
01998-3	6MW-35D	03-23-00/14:50	FTS01
01998-4	MW-118	03-23-00/10:10	FTS01
01998-5	MW-117	03-23-00/10:45	FTS01

PARAMETER	01998-1	01998-2	01998-3	01998-4	01998-5
Total Dissolved Solids (160.1), mg/l	74	130	130	65	160
Dilution Factor	1	1	1	1	1
Prep Date	03.28.00	03.28.00	03.28.00	03.28.00	03.28.00
Analysis Date	03.29.00	03.29.00	03.29.00	03.29.00	03.29.00
Batch ID	0328B	0328B	0328B	0328B	0328B

000012

LOG NO: S0-01998
Received: 28 MAR 00

Mr. Anthony Pace
Malcolm Pirnie
11832 Rock Landing Drive Suite 400
Newport News, VA 23606

Project: Ft. Story 0285-783/Remedial Investigation/FTS01
Sampled By: Client
Code: 105400414

REPORT OF RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
01998-6	MW-115	03-23-00/11:35	FTS01
01998-7	6MW-4	03-23-00/15:45	FTS01
PARAMETER		01998-6	01998-7
Total Dissolved Solids (160.1), mg/l		110	280
Dilution Factor		1	1
Prep Date		03.28.00	03.28.00
Analysis Date		03.29.00	03.29.00
Batch ID		0328B	0328B

Linda A. Wolfe, Project Manager

000013

LOG NO: S0-FTS01
Received: 24 MAR 00

Mr. Anthony Pace
Malcolm Pirnie
11832 Rock Landing Drive Suite 400
Newport News, VA 23606

Project: Ft. Story 0285-783/Remedial Investigation/FTS01
Sampled By: Client
Code: 110100414
Page 1

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	SDG#
FTS01-2	Method Blank	FTS01
PARAMETER	FTS01-2	
Total Dissolved Solids (160.1), mg/l	5.0U	
Dilution Factor	1	
Prep Date	03.28.00	
Analysis Date	03.29.00	
Batch ID	0328B	

Methods: EPA SW-846, Update III.

Linda A. Wolfe, Project Manager

000014

APPENDIX C
SUPPORT DOCUMENTATION

TABLE C-1

USEPA REGION III
SUMMARY OF CALIBRATION OUTLIERS
TCL Pesticides/PCBs

Laboratory SDG Number: FTS01

Laboratory: STL - Savannah

Column ID:	Initial Calibration		Continuing Calibration		Continuing Calibration		Continuing Calibration	
	DB-608 3/23/00-3/24/00		DB-608 04/11/2000 10:55					
Compound:	%RSD	Code*	%D	Code*	%D	Code*	%D	Code*
alpha-BHC								
beta-BHC								
delta-BHC								
gamma-BHC(Lindane)								
Heptachlor								
Aldrin								
Heptachlor epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endosulfan sulfate								
4,4'-DDT			66.1	C				
Methoxychlor								
Endrin ketone								
alpha-chlordane								
gamma-chlordane								
Toxaphene								
Aroclor-1016								
Aroclor-1221								
Aroclor-1232								
Aroclor-1242								
Aroclor-1248								
Aroclor-1254								
Aroclor-1260								
Affected Samples:			6MW-1	MW-115				
			6MW-3S	6MW-4				
			6MW-3SD					
			MW-118					

Codes:

I - The %RSD exceeded 20% in the initial calibration. Therefore, positive results are qualified "J".
When the %RSD exceeds 50%, quantitation limits are qualified "UJ".

C - The %D exceeded 25.0% in the continuing calibration. Therefore, positive results are qualified "J".
When the %D exceeds 50%, quantitation limits are qualified "UJ".

+ - The "B" qualifier, denoting blank contamination, supersedes the qualifier issued in this table.

R - The "R" qualifier, denoting unusable results, supersedes the qualifier issued in this table.

TABLE C-2

USEPA REGION III
 SUMMARY OF SURROGATE OUTLIERS
 TCL Pesticides/PCBs

Laboratory SDG Number: FTS01

Laboratory: STL - Savannah

Sample Identifier:	Sample Recoveries (%R)				Qualifiers
	Column 1		Column 2		
	TCX	DCB	TCX	DCB	
Acceptance Range (%R):	30-150	30-150	30-150	30-150	
1. MW-114A		28		28	UJ
2. 6MW-3S		20		20	UJ
3. 6MW-3SD		19		19	UJ
4. MW-115		15		14	UJ
5. 6MW-4		17		17	UJ
6. 4-MW-1D	26		26		UJ
7. MW-117		8		8	R

TABLE C-3

USEPA REGION III
 SUMMARY OF MATRIX SPIKE, DUPLICATE, SERIAL DILUTION AND LCS OUTLIERS
 TAL METALS (Dissolved)

Laboratory SDG Number: FTS01
 Parent Sample ID: MW-111

Laboratory: STL - Savannah

Analyte (Criteria):	Matrix Spike/Duplicate			ICP Ser. Dil.		Post Digest./Anal. Spike*			LCS Recovery	
	Rec., %R	RPD	Quals.	+/-10%	Quals.	ICP	AA	Quals.	80-120%**	Quals.
	75-125%	+/-20%				75-125%	85-115%			
Aluminum (Al)				29.4	J/UJ					
Antimony (Sb)										
Arsenic (As)										
Barium (Ba)										
Beryllium (Be)										
Cadmium (Cd)										
Calcium (Ca)										
Chromium (Cr)										
Cobalt (Co)										
Copper (Cu)										
Iron (Fe)										
Lead (Pb)										
Magnesium (Mg)										
Manganese (Mn)										
Mercury (Hg)										
Nickel (Ni)										
Potassium (K)										
Selenium (Se)										
Silver (Ag)										
Sodium (Na)										
Thallium (Tl)										
Vanadium (V)										
Zinc (Zn)										

* - There are no criteria at the present time to qualify the ICP metals based on the post-digestion spike recoveries.

** - The range of 80-120% recovery is only used for aqueous LCSs. Solid LCS samples have specific recovery ranges for each analyte.



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

5102 LaRoche Avenue, Savannah, GA 31404
 2846 Industrial Plaza Drive, Tallahassee, FL 32301
 900 Lakeside Drive, Mobile, AL 36693
 6712 Benjamin Rd., Suite 100, Tampa, FL 33634

Phone: (912) 354-7858 Fax: (912) 352-0165
 Phone: (850) 878-3994 Fax: (850) 878-9504
 Phone: (334) 666-6633 Fax: (334) 666-6696
 Phone: (813) 885-7427 Fax: (813) 885-7049

000004 ORIGINAL

PROJECT REFERENCE <i>Ft Story Remedial Invest.</i>	PROJECT NO. <i>02885-783</i>	PROJECT LOCATION (STATE) <i>VA</i>	MATRIX TYPE	REQUIRED ANALYSES							PAGE	OF		
STL (LAB) PROJECT MANAGER <i>L. WOLFE</i>	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ETC)	HCL	NOVOC	PEST/PCB	TSS/TDS	TOT.MET	DISS. MET	TOT. CADMIUM	DISS CADMIUM	STANDARD REPORT DELIVERY	<input type="radio"/>	
CLIENT (SITE) PM <i>TONY PACE</i>	CLIENT PHONE <i>757-873-8700</i>	CLIENT FAX <i>757-873-8223</i>		None	None	None	None	None	None	None	None	None	DATE DUE _____	
CLIENT NAME <i>Malcolm Pirnie INC</i>	CLIENT EMAIL <i>apace@pirnie.com</i>												EXPEDITED REPORT DELIVERY (SURCHARGE)	<input type="radio"/>
CLIENT ADDRESS <i>11832 Rock Landing drive Suite 400, Newport News, VA 23602</i>	COMPANY CONTRACTING THIS WORK (if applicable): <i>ACO</i>												DATE DUE _____	

SAMPLE		SAMPLE IDENTIFICATION						NUMBER OF CONTAINERS SUBMITTED							REMARKS	
DATE	TIME															
<i>3/23/00</i>	<i>1340</i>	<i>mw-106</i>	<i>G</i>	<input checked="" type="checkbox"/>												
<i>3/23/00</i>	<i>1415</i>	<i>6mw-1</i>	<i>G</i>	<input checked="" type="checkbox"/>				<i>3</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>				
<i>3/23/00</i>	<i>1450</i>	<i>6mw-35</i>	<i>G</i>	<input checked="" type="checkbox"/>				<i>3</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>				
<i>3/23/00</i>	<i>1450</i>	<i>6MW-35B</i>	<i>G</i>	<input checked="" type="checkbox"/>				<i>3</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>				
<i>3/23/00</i>	<i>1010</i>	<i>MW-118</i>	<i>G</i>	<input checked="" type="checkbox"/>				<i>3</i>								
<i>3/23/00</i>	<i>1045</i>	<i>mw-117</i>	<i>G</i>	<input checked="" type="checkbox"/>				<i>3</i>								
<i>3/23/00</i>	<i>1135</i>	<i>mw-115</i>	<i>G</i>	<input checked="" type="checkbox"/>				<i>3</i>								
		<i>O10 D (TRIP BLANK)</i>	<i>G</i>	<input checked="" type="checkbox"/>				<i>3</i>								
<i>3/23/00</i>	<i>1545</i>	<i>6mw-4</i>	<i>G</i>	<input checked="" type="checkbox"/>				<i>3</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>				

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

LABORATORY USE ONLY								
RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL-SL LOG NO.	LABORATORY REMARKS:		
<i>[Signature]</i>	<i>3/28/00</i>	<i>10:15</i>	<input checked="" type="checkbox"/>		<i>50.01998</i>			



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

○ 5102 LaRoche Avenue, Savannah, GA 31404
 ○ 2846 Industrial Plaza Drive, Tallahassee, FL 32301
 ○ 900 Lakeside Drive, Mobile, AL 36693
 ○ 6712 Benjamin Rd., Suite 100, Tampa, FL 33634

Phone: (912) 354-7858 Fax: (912) 352-0165
 Phone: (850) 878-3994 Fax: (850) 878-9504
 Phone: (334) 666-6633 Fax: (334) 666-6696
 Phone: (813) 885-7427 Fax: (813) 885-7049

000005

PROJECT REFERENCE <i>Ft. Story Remedial Invest.</i>	PROJECT NO. <i>0285-783</i>	PROJECT LOCATION (STATE) <i>VA</i>	MATRIX TYPE	REQUIRED ANALYSES								PAGE	OF	
STL (LAB) PROJECT MANAGER <i>L. WOLFE</i>	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ETC)	NONE HMB HMB NONE	PEST/PCB TBT-MET DISSMET TSS/TDS								STANDARD REPORT DELIVERY	<input type="radio"/>
CLIENT (SITE) PM <i>TONY PACE</i>	CLIENT PHONE <i>757-873-8702</i>	CLIENT FAX <i>757-873-8723</i>											DATE DUE	
CLIENT NAME <i>Malcolm P. Inc. Inc</i>	CLIENT EMAIL <i>dpace@pirnie.com</i>												EXPEDITED REPORT DELIVERY (SURCHARGE)	<input type="radio"/>
CLIENT ADDRESS <i>11832 Rock Landing Dr. Suite 400, Newport News, VA 23606</i>		DATE DUE												
COMPANY CONTRACTING THIS WORK (if applicable):													NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	

SAMPLE		SAMPLE IDENTIFICATION	G	✓					NUMBER OF CONTAINERS SUBMITTED								REMARKS
DATE	TIME																
<i>3/23/00</i>	<i>1010</i>	<i>MW-118</i>	<i>G</i>	<i>✓</i>					<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>					
<i>3/23/00</i>	<i>1045</i>	<i>MW-117</i>	<i>G</i>	<i>✓</i>					<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>					
<i>3/23/00</i>	<i>1135</i>	<i>MW-115</i>	<i>G</i>	<i>✓</i>					<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>					
<i>3/23/00</i>	<i>1545</i>	<i>6 MW-4</i>	<i>G</i>	<i>✓</i>					<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>					

ORIGINAL

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

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>C. V. ...</i>	DATE <i>3/28/00</i>	TIME <i>9:15</i>	CUSTODY INTACT <i>YES</i>	CUSTODY SEAL NO.	STL-SL LOG NO. <i>3201998</i>	LABORATORY REMARKS:
---	------------------------	---------------------	------------------------------	------------------	----------------------------------	---------------------

FILE COPY

SAMPLE INTERNAL CUSTODY LOG

SL LOG NO. So-01956

CLIENT: Malcolm Pirnie

COOLERS/CLIENT: 2

COURIER: AE

TEMPERATURE 1.2°C / 3.5°C

GENERAL CONTAINER TYPE	P	#	METALS CONTAINER TYPE	P	#	VOLATILE CONTAINER TYPE	P	#	EXTRACTION CONTAINER TYPE	P	#
LIQUID			LIQUID			LIQUID			LIQUID		
L N/M PLASTIC			500 M/M PLASTIC	R	7	40 ML VIAL	LB	24	L N/M AMB GLASS	O	14
250 AMB GLASS			250 M/M PLASTIC			SOIL			250 M/M AMB GLASS		
500 M/M PLASTIC	O	7	100 M/M PLASTIC			ENCORE SPLERS/25g			500 M/M AM GLASS		
500 M/M AMB GLASS			SOIL			ENCORE SPLERS/5g			500 M/M PLASTIC		
250 N/M PLASTIC			L W/M PLASTIC			125 AMB W/M W/SEPTA			250 M/M PLASTIC		
250 N/M PLASTIC			500 W/M PLASTIC			125 AMB W/M GLASS			SOIL		
250 M/M NALGENE			250 W/M PLASTIC			AIR			L W/M GLASS		
125 M/M AMB GLASS			OTHER			TEDLAR BAG			500 W/M GLASS		
100 M/M PLASTIC			<u>500 m/m plastic</u>		7	SUMMA CANS			250 M/M GLASS		
DO BOTTLE						VACUUM CANS			OTHER		
SOIL						TUBES					
250 M/M NALGENE						OTHER					
OTHER											
PLEASE VERIFY	✓		PLEASE VERIFY	✓		PLEASE VERIFY	✓		PLEASE VERIFY	✓	
TOTAL CONTAINERS		7	TOTAL CONTAINERS		7	TOTAL CONTAINERS		24	TOTAL CONTAINERS		14

RELINQUISHED INFORMATION:

CUSTODY INITIAL/DATE

Kc 3/24/00

GENERAL INITIAL/DATE

CUSTODY INITIAL/DATE

Kc 3/24/00

METALS INITIAL/DATE

CUSTODY INITIAL/DATE

Kc 3/24/00

VOLATILES INITIAL/DATE

CUSTODY INITIAL/DATE

Kc 3/24/00

EXTRACTION INITIAL/DATE

MISC. BOTTLES STORED IN REFRIGERATOR FOR SUBCONTRACT/REMOTE TRANSFER:

SAMPLE INTERNAL CUSTODY LOG

FILE COPY

SL LOG NO. 50-01998

CLIENT: Malcolm Pirnie

COOLERS/CLIENT: 3

COURIER: AE

TEMPERATURE 5.7/5.1/5.9

GENERAL CONTAINER TYPE	P	#	METALS CONTAINER TYPE	P	#	VOLATILE CONTAINER TYPE	P	#	EXTRACTION CONTAINER TYPE	P	#
LIQUID			LIQUID			LIQUID			LIQUID		
L N/M PLASTIC			500 M/M PLASTIC	R	16	40 ML VIAL	LB	24	L N/M AMB GLASS	0	14
250 AMB GLASS			250 M/M PLASTIC			SOIL			250 M/M AMB GLASS		
500 M/M PLASTIC	0	6	100 M/M PLASTIC			ENCORE SPLERS/25g			500 M/M AM GLASS		
500 M/M AMB GLASS			SOIL			ENCORE SPLERS/5g			500 M/M PLASTIC		
250 N/M PLASTIC			L W/M PLASTIC			125 AMB W/M W/SEPTA			250 M/M PLASTIC		
250 N/M PLASTIC			500 W/M PLASTIC			125 AMB W/M GLASS			SOIL		
250 M/M NALGENE			250 W/M PLASTIC			AIR			L W/M GLASS		
125 M/M AMB GLASS			OTHER			TEDLAR BAG			500 W/M GLASS		
100 M/M PLASTIC						SUMMA CANS			250 M/M GLASS		18
DO BOTTLE						VACUUM CANS			OTHER		
SOIL						TUBES					
250 M/M NALGENE						OTHER					
OTHER											
L N/M Amber Glass	0	1									
PLEASE VERIFY	✓	-	PLEASE VERIFY	✓		PLEASE VERIFY			PLEASE VERIFY	✓	
TOTAL CONTAINERS		7	TOTAL CONTAINERS		16	TOTAL CONTAINERS		24	TOTAL CONTAINERS		32 14 KC

RELINQUISHED INFORMATION:

CUSTODY INITIAL/DATE
KC 3/28/00
GENERAL INITIAL/DATE

CUSTODY INITIAL/DATE
KC 3/28/00
METALS INITIAL/DATE

CUSTODY INITIAL/DATE
KC 3/28/00
VOLATILES INITIAL/DATE

CUSTODY INITIAL/DATE
KC 3/28/00
EXTRACTION INITIAL/DATE

MISC. BOTTLES STORED IN REFRIGERATOR FOR SUBCONTRACT/REMOTE TRANSFER:



CASE NARRATIVE

SDG# FTS01
SL PROJECT#s S001956, S001998

Volatiles by GC/MS (8260B) Fraction

The following samples were analyzed according to SW-846 Method 8260B.

SL#	SAMPLE DESCRIPTION	MATRIX
S001956*1	MW-112	Liquid
S001956*2	MW-114A	Liquid
S001956*3	MW-111	Liquid
S001956*4	4-MW-1	Liquid
S001956*5	4-MW-1D	Liquid
S001956*6	010D-Trip Blank	Liquid
S001998*1	6MW-1	Liquid
S001998*2	6MW-35	Liquid
S001998*3	6MW-35D	Liquid
S001998*4	MW-118	Liquid
S001998*5	MW-117	Liquid
S001998*6	MW-115	Liquid
S001998*7	6MW-4	Liquid
S001998*8	010D-Trip Blank	Liquid

Sample S001956-3 (MW-111) was the designated matrix spike/matrix spike duplicate.

Due to the abundance of target analytes, sample S001998-5 was analyzed at a dilution of 1:10.

000009



CASE NARRATIVE

SDG# FTS01
SL PROJECT#s S001956, S001998

TCL Pesticides (8081A)/PCB's (8082) Fraction

The following samples were analyzed according to SW-846 Methods 8081A and 8082.

SL#	SAMPLE DESCRIPTION	MATRIX
S001956*1	MW-112	Liquid
S001956*2	MW-114A	Liquid
S001956*3	MW-111	Liquid
S001956*4	4-MW-1	Liquid
S001956*5	4-MW-1D	Liquid
S001998*1	6MW-1	Liquid
S001998*2	6MW-35	Liquid
S001998*3	6MW-35D	Liquid
S001998*4	MW-118	Liquid
S001998*5	MW-117	Liquid
S001998*6	MW-115	Liquid
S001998*7	6MW-4	Liquid

Sample S001956-3 (MW-111) was the designated matrix spike/matrix spike duplicate.

Surrogate DCB recoveries were below quality control limits for samples S001956-2, S001998-2, S001998-3, S001998-5, S001998-6, and S001998-7; however, secondary surrogate TCMX recoveries were within QC limits for these samples. Surrogate TCMX recoveries were outside quality control limits for sample S001956-5; however, surrogate DCB recoveries were within QC limits for this sample. This situation has been denoted with the "X" data qualifier on the LIMS report.

000010

FORM 2
WATER PEST-PCB SURROGATE RECOVERY

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL-SAV

Case No.:

SAS No.:

SDG No.: FTS01

GC Column(1): DB-608

ID: 0.53 (mm)

GC Column(2): DB-5

ID: 0.53 (mm)

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	03270-NMB	40	44	88	88			0
02	03270-NMBLCS	44	46	74	74			0
03	03270-NMBLCS	40	46	78	82			0
04	01956-1	36	42	38	36			0
05	01956-2	36	38	28*	28*			2
06	01998-1	42	46	42	44			0
07	01998-2	36	36	20*	20*			2
08	01998-3	35	38	19*	19*			2
09	01998-4	42	48	62	62			0
10	01998-6	38	44	15*	14*			2
11	01998-7	40	42	17*	17*			2
12	03290-NMB	60	60	64	70			0
13	03290-NMBLCS	64	76	82	84			0
14	03290-NMBLCS	52	58	68	76			0
15	01998-5	36	86	8*	8*			2
16	01956-4	32	32	44	48			0
17	01956-5	26*	24*	44	46			2
18	01956-3	32	30	36	36			0
19	01956-3MS	26*	26*	36	36			2
20	01956-3MSD	38	38	40	40			0
21	01956-3MS	36	36	40	44			0
22	01956-3MSD	38	36	34	36			0
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS

S1 (TCX) = Tetrachloro-m-xylene (30-150)

S2 (DCB) = Decachlorobiphenyl (30-150)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

Savannah Laboratories

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: SGNECD1.i Injection Date: 11-APR-2000 10:55
 Lab File ID: cap09121.d Init. Cal. Date(s): 23-MAR-2000 24-MAR-2000
 Analysis Type: Init. Cal. Times: 13:39 03:29
 Lab Sample ID: PISMA-04 Quant Type: ESTD
 Method: /chem/SG/SGNECD1.i/5N0409A.b/BSURR-new8081chan1-e1.m

COMPOUND	___		CCAL	MIN	MAX		CURVE TYPE
	RRF / AMOUNT	RF10	RRF10	RRF	%D / %DRIFT	%D / %DRIFT	
\$ 1 Tetrachloro-m-xylene	1546702	1464675	1464675	0.010	5.3	15.0	Averaged
7 gamma-BHC (Lindane)	3032070	3396050	3396050	0.010	-12.0	15.0	Averaged
10 Heptachlor	2449980	2342500	2342500	0.010	4.4	15.0	Averaged
15 Heptachlor epoxide	2292470	2647450	2647450	0.010	-15.5	15.0	Averaged<-
19 Endosulfan I	2201515	2552100	2552100	0.010	-15.9	15.0	Averaged<-
21 Dieldrin	2267958	2654550	2654550	0.010	-17.0	15.0	Averaged<-
28 Endosulfan II	1858858	2157950	2157950	0.010	-16.1	15.0	Averaged<-
29 4,4'-DDT	1387592	2304850	2304850	0.010	-66.1	15.0	Averaged<-
31 Endrin aldehyde	1180548	1460700	1460700	0.010	-23.7	15.0	Averaged<-
33 Methoxychlor	647412	820750	820750	0.010	-26.8	15.0	Averaged<-
\$ 35 Decachlorobiphenyl	1862772	1859700	1859700	0.010	0.2	15.0	Averaged

CASE NARRATIVE

SDG# FTS01
 SL PROJECT#s S001956, S001998

Metals (total and dissolved) Fraction

The following samples were analyzed according to SW-846 Method 6010B and 7470A.

SL#	SAMPLE DESCRIPTION	MATRIX
S001956*1	MW-112	Liquid
S001956*2	MW-114A	Liquid
S001956*3	MW-111	Liquid
S001956*4	4-MW-1	Liquid
S001956*5	4-MW-1D	Liquid
S001998*1	6MW-1	Liquid
S001998*2	6MW-35	Liquid
S001998*3	6MW-35D	Liquid
S001998*4	MW-118	Liquid
S001998*5	MW-117	Liquid
S001998*6	MW-115	Liquid
S001998*7	6MW-4	Liquid
S001998*9	MW-106	Liquid

Sample S001956-3 (MW-111) was the designated matrix spike / matrix spike duplicate for both total and dissolved samples.

The serial dilution for sample S001956-3 exceeded the advisory limit for dissolved aluminum and all associated results were flagged with an "E".

Due to the abundance of sodium sample S001998-7 was analyzed at a 1:2 dilution for both total and dissolved sodium.

For the following samples the dissolved results were greater than the total results. For sample S001998-5 the zinc dissolved result was 46 ug/L and the zinc total result was 5.3B ug/L. For sample S001998-7 the dissolved copper result was 30 ug/L and the total copper result was 2.9B ug/L. The sample results were verified by the analysis of the redigested samples.

Samples S001956-1 through S001956-5 were lab filtered. The documentation for the lab filtration can be found on the sample preparation logs batches 0410K and 0330R in the original data package.

*revised on
 000007 01.18.01*

P. J. Macey
03.30

DIGESTION LIQUIDS

Job No: 2304
 Batch No: 0330R
 Job Date: 03.29.00

ANALYSIS

ICP AA HG
 FLAME TCLP
 MISC

Date/Time Started: 03.30.00/12:15
 Date/Time Completed: 03.30.00/2:30
 Analyst: T. Macey
 Method/SOP: 7410A ME26
 Final Volume: 50ml
 Acid Lot #(s):
 HNO₃ - 1117036
 H₂SO₄ - 1144033

Hood: 1
 Bath Temp(Hg only): 95°C
 Final Project Check:

LOS/REV	ID	LOT#	AMT (mL)	INIT
Spike	250	CF01-93-13	0.50	TM
Spike	150	CF01-93-14	0.50	RA
Spike				
Spike				

SAMPLE ID/MTX/DESCRIPTION	D-D	SDG	BENCH	VIAL#	VOLUME DIGESTED(mL)	DF	COMMENTS
1. S001956*1/LI/MW-112	04.07	FTS01	HG		50ml		*NDPAEX DISS Lab Filter
2. S001956*2/LI/MW-114A	04.07	FTS01	HG				*NDPAEX DISS
3. S001956*3/LI/MW-111	04.07	FTS01	HG				*NDPAEX DISS
4. S001956*4/LI/4-MW-1	04.07	FTS01	HG				*NDPAEX DISS
5. S001956*5/LI/4-MW-1D	04.07	FTS01	HG				*NDPAEX DISS
6. S001998*1/LI/6MW-1	04.07	FTS01	HG				*NDPAEX DISS Field Filter
7. S001998*2/LI/6MW-35	04.07	FTS01	HG				*NDPAEX DIS
8. S001998*3/LI/6MW-35D	04.07	FTS01	HG				*NDPAEX DISS
9. S001998*4/LI/MW-118	04.07	FTS01	HG				*NDPAEX DISS
10. S001998*5/LI/MW-117	04.07	FTS01	HG				*NDPAEX DISS
11. S001998*6/LI/MW-115	04.07	FTS01	HG				*NDPAEX DISS
12. S001998*7/LI/6MW-4	04.07	FTS01	HG				*NDPAEX DISS
13. S001998 - 3ms DISS							DISS Lab Filter
14. S001998 - 3ms 10 DISS							DISS
15.							
16.							
17.							
18.							
19.							
20.							
Lab Blank							Blank
Lab Spike #1							Blank(DISS)
Lab Spike #2							6056-1

T. Macey 03.30.00

T. Macey 03.30.00

Comments:

000282

DIGESTION LIQUIDS

9/11/03

Job No: 2303

Batch No: 03305

Job Date: 03.29.00

ANALYSIS

ICP AA HG
 FLAME TCLP
 MISC

Date/Time Started: 03:30 03/12/25

Date/Time Completed: 03:30 03/22/30

Analyst: T. Mincey

Method/SOP: 7470A ME26

Final Volume: 50ml

Acid Lot #(s):

HNO₃ - 117036

H₂SO₄ - 1144033

Hood: 3

Bath Temp(Hg only): 95°C

Final Project Check:

	ID	LOT#	AMT (mL)	INIT
ICP/AA	250			
Spike	100	CF00-93-13	0.50	TM
MS/MSD	100			
Spike	100	CF00-93-14	0.50	RA
Spike				
Spike				

SAMPLE ID/MTX/DESCRIPTION	D-D	SDG	BENCH	VIAL#	VOLUME DIGESTED(mL)	DF	COMMENTS
1. S001956*1/LI/MW-112	04.07	FTS01	HG		50ml		*NDPAEX
2. S001956*2/LI/MW-114A	04.07	FTS01	HG			*NDPAEX	
3. S001956*3/LI/MW-111	04.07	FTS01	HG			*NDPAEX	
4. S001956*4/LI/4-MW-1	04.07	FTS01	HG			*NDPAEX	
5. S001956*5/LI/4-MW-1D	04.07	FTS01	HG			*NDPAEX	
6. S001998*1/LI/6MW-1	04.07	FTS01	HG			*NDPAEX	
7. S001998*2/LI/6MW-35	04.07	FTS01	HG			*NDPAEX	
8. S001998*3/LI/6MW-35D	04.07	FTS01	HG			*NDPAEX	
9. S001998*4/LI/MW-118	04.07	FTS01	HG			*NDPAEX	
10. S001998*5/LI/MW-117	04.07	FTS01	HG			*NDPAEX	
11. S001998*6/LI/MW-115	04.07	FTS01	HG			*NDPAEX	
12. S001998*7/LI/6MW-4	04.07	FTS01	HG			*NDPAEX	
13. S001956-3 MS	↓	↓	↓			50ml	
14. S001956-3 MSD	↓	↓	↓				
15.							
16.							
17.							
18.							
19.							
20.							
Lab Blank					—		
Lab Spike #1					—		
Lab Spike #2							

T. Mincey 03.30.00

T. Mincey 03.30.00

Comments:

ms/msd

000283



CASE NARRATIVE

SDG# FTS01
SL PROJECT#s S001956, S001998

General Wet Chemistry Fraction

The following samples were analyzed according to EPA Chemical Analysis of Water and Wastes.

SL#	SAMPLE DESCRIPTION	MATRIX
S001956*1	MW-112	Liquid
S001956*2	MW-114A	Liquid
S001956*3	MW-111	Liquid
S001956*4	4-MW-1	Liquid
S001956*5	4-MW-1D	Liquid
S001998*1	6MW-1	Liquid
S001998*2	6MW-35	Liquid
S001998*3	6MW-35D	Liquid
S001998*4	MW-118	Liquid
S001998*5	MW-117	Liquid
S001998*6	MW-115	Liquid
S001998*7	6MW-4	Liquid

A lab control sample has been provided for quality control.

Total Dissolved Solids (TDS) Fraction: TDS determinations were generated using EPA method 160.1.

Total Suspended Solids (TSS) Fraction: TSS determinations were generated using EPA method 160.2.

000007

TOTAL METALS
- 9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

MW-111FL

Contract:

Lab Code: SLSAV

Case No.:

SAS No.:

SDG NO.: FTS01Matrix (soil/water): WATERLevel (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	M
		C		C			
Aluminum	407.6		287.9	B	29.4	E	P
Antimony	2.700	U	18.72	B			P
Arsenic	3.000	U	15.00	U			P
Barium	18.14		17.87	B	1.5		P
Beryllium	0.1000	U	0.5000	U			P
Cadmium	0.5000	U	2.500	U			P
Calcium	8784		8802		0.2		P
Chromium	1.251	B	3.500	U			P
Cobalt	0.9000	U	4.500	U			P
Copper	2.711	B	4.500	U			P
Iron	177.8		108.7	B	38.9		P
Lead	4.521	B	18.44	B	307.9		P
Magnesium	1104		1123	B	1.7		P
Manganese	6.545	B	6.490	B	0.8		P
Mercury	0.100	U	0.500	U			CV
Nickel	1.100	U	5.500	U			P
Potassium	3025		3003	B	0.7		P
Selenium	3.400	U	17.00	U			P
Silver	0.5000	U	2.500	U			P
Sodium	6694		5779		13.7		P
Thallium	4.300	U	21.50	U			P
Vanadium	1.225	B	3.500	U			P
Zinc	12.77	B	39.42	B	208.7		P

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

01956-6

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL

Case No.:

SAS No.:

SDG No.: FTS01

Matrix: (soil/water) WATER

Lab Sample ID: 010D-TRIP BLANK

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: L259

Level: (low/med) LOW

Date Received: 03/24/00

% Moisture: not dec. _____

Date Analyzed: 03/31/00

GC Column: DB-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	1.32	120	JNB
2.	UNKNOWN	2.01	17	JB
3.	UNKNOWN	2.71	20	J
4.	UNKNOWN	3.18	130	J
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

EPL 12/01

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998-1

Lab Name: SAVANNAH LABORATORIES Contract: _____

Lab Code: SL Case No.: _____ SAS No.: _____ SDG No.: FTS01

Matrix: (soil/water) WATER Lab Sample ID: 6MW-1

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L268

Level: (low/med) LOW Date Received: 03/28/00

% Moisture: not dec. _____ Date Analyzed: 03/31/00

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----CHLOROMETHANE	10	U
75-01-4	-----VINYL CHLORIDE	10	U
74-83-9	-----BROMOMETHANE	10	U
75-00-3	-----CHLOROETHANE	10	U
75-35-4	-----1 1-DICHLOROETHENE	5.0	U
75-09-2	-----METHYLENE CHLORIDE	5.0	U
75-34-3	-----1 1-DICHLOROETHANE	5.0	U
67-66-3	-----CHLOROFORM	5.0	U
71-55-6	-----1 1 1-TRICHLOROETHANE	5.0	U
56-23-5	-----CARBON TETRACHLORIDE	5.0	U
71-43-2	-----BENZENE	5.0	U
107-06-2	-----1 2-DICHLOROETHANE	5.0	U
79-01-6	-----TRICHLOROETHENE	5.0	U
78-87-5	-----1 2-DICHLOROPROPANE	5.0	U
75-27-4	-----BROMODICHLOROMETHANE	5.0	U
108-88-3	-----TOLUENE	5.0	U
79-00-5	-----1 1 2-TRICHLOROETHANE	5.0	U
127-18-4	-----TETRACHLOROETHENE	5.0	U
124-48-1	-----DIBROMOCHLOROMETHANE	5.0	U
108-90-7	-----CHLOROBENZENE	5.0	U
100-41-4	-----ETHYL BENZENE	5.0	U
100-42-5	-----STYRENE	5.0	U
75-25-2	-----BROMOFORM	5.0	U
79-34-5	-----1 1 2 2-TETRACHLOROETHANE	5.0	U
67-64-1	-----ACETONE	50	U
75-15-0	-----CARBON DISULFIDE	5.0	U
78-93-3	-----2-BUTANONE	25	U
108-10-1	-----4-METHYL-2-PENTANONE (MIBK)	50	U
10061-01-5	-----cis-1,3-DICHLOROPROPENE	5.0	U
10061-02-6	-----trans-1,3-DICHLOROPROPENE	5.0	U
591-78-6	-----2-HEXANONE	25	U
540-59-0	-----1,2-DICHLOROETHENE (total)	5.0	U
1330-20-7	-----XYLENE (total)	10	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

01998-1

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL

Case No.:

SAS No.:

SDG No.: FTS01

Matrix: (soil/water) WATER

Lab Sample ID: 6MW-1

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: L268

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 03/31/00

GC Column: DB-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	1.32	170	JNB
2.	UNKNOWN	2.06	14	JB
3.	UNKNOWN	2.60	7.4	J
4.	UNKNOWN	2.77	13	J
5.	UNKNOWN	3.03	37	J
6.	UNKNOWN	3.72	27	J
7.	UNKNOWN	3.99	14	J
8.	UNKNOWN	4.89	5.8	J
9.	UNKNOWN	11.91	9.6	J
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JK 1/3/01

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998-2

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL

Case No.:

SAS No.:

SDG No.: FTS01

Matrix: (soil/water) WATER

Lab Sample ID: 6MW-358

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: L275

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/01/00

GC Column: DB-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

74-87-3	-----CHLOROMETHANE	10	U
75-01-4	-----VINYL CHLORIDE	3.1	J
74-83-9	-----BROMOMETHANE	10	U
75-00-3	-----CHLOROETHANE	10	U
75-35-4	-----1 1-DICHLOROETHENE	5.0	U
75-09-2	-----METHYLENE CHLORIDE	5.0	U
75-34-3	-----1 1-DICHLOROETHANE	5.0	U
67-66-3	-----CHLOROFORM	5.0	U
71-55-6	-----1 1 1-TRICHLOROETHANE	5.0	U
56-23-5	-----CARBON TETRACHLORIDE	5.0	U
71-43-2	-----BENZENE	5.0	U
107-06-2	-----1 2-DICHLOROETHANE	5.0	U
79-01-6	-----TRICHLOROETHENE	1.3	J
78-87-5	-----1 2-DICHLOROPROPANE	5.0	U
75-27-4	-----BROMODICHLOROMETHANE	5.0	U
108-88-3	-----TOLUENE	5.0	U
79-00-5	-----1 1 2-TRICHLOROETHANE	5.0	U
127-18-4	-----TETRACHLOROETHENE	5.0	U
124-48-1	-----DIBROMOCHLOROMETHANE	5.0	U
108-90-7	-----CHLOROBENZENE	5.0	U
100-41-4	-----ETHYL BENZENE	5.0	U
100-42-5	-----STYRENE	5.0	U
75-25-2	-----BROMOFORM	5.0	U
79-34-5	-----1 1 2 2-TETRACHLOROETHANE	5.0	U
67-64-1	-----ACETONE	50	U
75-15-0	-----CARBON DISULFIDE	5.0	U
78-93-3	-----2-BUTANONE	25	U
108-10-1	-----4-METHYL-2-PENTANONE (MIBK)	34	U
10061-01-5	-----cis-1,3-DICHLOROPROPENE	5.0	U
10061-02-6	-----trans-1,3-DICHLOROPROPENE	5.0	U
591-78-6	-----2-HEXANONE	25	U
540-59-0	-----1,2-DICHLOROETHENE (total)	2.0	J
1330-20-7	-----XYLENE (total)	10	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

01998-2

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL

Case No.:

SAS No.:

SDG No.: FTS01

Matrix: (soil/water) WATER

Lab Sample ID: 6MW-35/S

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: L275

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/01/00

GC Column: DB-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

11/21/01
DJK

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	1.32	190	JNB R
2.	UNKNOWN	2.16	25	JBB
3.	SEPTUM BLEED	2.63	9.7	JN R
4.	UNKNOWN	2.76	17	JJR
5.	UNKNOWN	3.18	50	JJR
6.	UNKNOWN	3.71	23	JBB
7.	UNKNOWN	4.00	29	JJR
8.	UNKNOWN	4.28	37	JBB
9.	UNKNOWN	4.60	9.8	JJR
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DJK 1/3/01

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998-3

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL

Case No.:

SAS No.:

SDG No.: FTS01

Matrix: (soil/water) WATER

Lab Sample ID: 6MW-35D

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: L276

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/01/00

GC Column: DB-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

74-87-3	-----CHLOROMETHANE	10	U
75-01-4	-----VINYL CHLORIDE	3.0	J
74-83-9	-----BROMOMETHANE	10	U
75-00-3	-----CHLOROETHANE	10	U
75-35-4	-----1 1-DICHLOROETHENE	5.0	U
75-09-2	-----METHYLENE CHLORIDE	5.0	U
75-34-3	-----1 1-DICHLOROETHANE	5.0	U
67-66-3	-----CHLOROFORM	5.0	U
71-55-6	-----1 1 1-TRICHLOROETHANE	5.0	U
56-23-5	-----CARBON TETRACHLORIDE	5.0	U
71-43-2	-----BENZENE	5.0	U
107-06-2	-----1 2-DICHLOROETHANE	5.0	U
79-01-6	-----TRICHLOROETHENE	1.3	J
78-87-5	-----1 2-DICHLOROPROPANE	5.0	U
75-27-4	-----BROMODICHLOROMETHANE	5.0	U
108-88-3	-----TOLUENE	5.0	U
79-00-5	-----1 1 2-TRICHLOROETHANE	5.0	U
127-18-4	-----TETRACHLOROETHENE	5.0	U
124-48-1	-----DIBROMOCHLOROMETHANE	5.0	U
108-90-7	-----CHLOROBENZENE	5.0	U
100-41-4	-----ETHYL BENZENE	5.0	U
100-42-5	-----STYRENE	5.0	U
75-25-2	-----BROMOFORM	5.0	U
79-34-5	-----1 1 2 2-TETRACHLOROETHANE	5.0	U
67-64-1	-----ACETONE	50	U
75-15-0	-----CARBON DISULFIDE	5.0	U
78-93-3	-----2-BUTANONE	25	U
108-10-1	-----4-METHYL-2-PENTANONE (MIBK)	44	_____
10061-01-5	-----cis-1,3-DICHLOROPROPENE	5.0	U
10061-02-6	-----trans-1,3-DICHLOROPROPENE	5.0	U
591-78-6	-----2-HEXANONE	25	U
540-59-0	-----1,2-DICHLOROETHENE (total)	1.9	J
1330-20-7	-----XYLENE (total)	10	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

01998-3

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL

Case No.:

SAS No.:

SDG No.: FTS01

Matrix: (soil/water) WATER

Lab Sample ID: 6MW-35D

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: L276

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/01/00

GC Column: DB-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

OK 3/31/01

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	1.32	190	JNB
2.	UNKNOWN	2.56	5.8	J
3.	UNKNOWN	3.98	22	J
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OK 1/3/01

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998-4

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL

Case No.:

SAS No.:

SDG No.: FTS01

Matrix: (soil/water) WATER

Lab Sample ID: MW-118

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: L271

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 03/31/00

GC Column: DB-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

74-87-3	-----CHLOROMETHANE	10	U
75-01-4	-----VINYL CHLORIDE	10	U
74-83-9	-----BROMOMETHANE	10	U
75-00-3	-----CHLOROETHANE	10	U
75-35-4	-----1 1-DICHLOROETHENE	5.0	U
75-09-2	-----METHYLENE CHLORIDE	5.0	U
75-34-3	-----1 1-DICHLOROETHANE	5.0	U
67-66-3	-----CHLOROFORM	5.0	U
71-55-6	-----1 1 1-TRICHLOROETHANE	5.0	U
56-23-5	-----CARBON TETRACHLORIDE	5.0	U
71-43-2	-----BENZENE	5.0	U
107-06-2	-----1 2-DICHLOROETHANE	5.0	U
79-01-6	-----TRICHLOROETHENE	5.0	U
78-87-5	-----1 2-DICHLOROPROPANE	5.0	U
75-27-4	-----BROMODICHLOROMETHANE	5.0	U
108-88-3	-----TOLUENE	5.0	U
79-00-5	-----1 1 2-TRICHLOROETHANE	5.0	U
127-18-4	-----TETRACHLOROETHENE	5.0	U
124-48-1	-----DIBROMOCHLOROMETHANE	5.0	U
108-90-7	-----CHLOROBENZENE	5.0	U
100-41-4	-----ETHYL BENZENE	5.0	U
100-42-5	-----STYRENE	5.0	U
75-25-2	-----BROMOFORM	5.0	U
79-34-5	-----1 1 2 2-TETRACHLOROETHANE	5.0	U
67-64-1	-----ACETONE	50	U
75-15-0	-----CARBON DISULFIDE	5.0	U
78-93-3	-----2-BUTANONE	25	U
108-10-1	-----4-METHYL-2-PENTANONE (MIBK)	25	U
10061-01-5	-----cis-1,3-DICHLOROPROPENE	5.0	U
10061-02-6	-----trans-1,3-DICHLOROPROPENE	5.0	U
591-78-6	-----2-HEXANONE	25	U
540-59-0	-----1,2-DICHLOROETHENE (total)	5.0	U
1330-20-7	-----XYLENE (total)	10	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

01998-4

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL

Case No.:

SAS No.:

SDG No.: FTS01

Matrix: (soil/water) WATER

Lab Sample ID: MW-118

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: L271

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 03/31/00

GC Column: DB-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	1.33	180	JNB
2.	UNKNOWN	1.64	30	JJ
3.	UNKNOWN	2.07	46	JB-B
4.	UNKNOWN	3.21	99	JJ
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OK 1/3/01

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998-5

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL

Case No.:

SAS No.:

SDG No.: FTS01

Matrix: (soil/water) WATER

Lab Sample ID: MW-117

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: L277

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/01/00

GC Column: DB-624 ID: 0.18 (mm)

Dilution Factor: 10.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----CHLOROMETHANE	100	U
75-01-4	-----VINYL CHLORIDE	8.6	J
74-83-9	-----BROMOMETHANE	100	U
75-00-3	-----CHLOROETHANE	100	U
75-35-4	-----1 1-DICHLOROETHENE	50	U
75-09-2	-----METHYLENE CHLORIDE	50	U
75-34-3	-----1 1-DICHLOROETHANE	50	U
67-66-3	-----CHLOROFORM	50	U
71-55-6	-----1 1 1-TRICHLOROETHANE	50	U
56-23-5	-----CARBON TETRACHLORIDE	50	U
71-43-2	-----BENZENE	50	U
107-06-2	-----1 2-DICHLOROETHANE	50	U
79-01-6	-----TRICHLOROETHENE	50	U
78-87-5	-----1 2-DICHLOROPROPANE	50	U
75-27-4	-----BROMODICHLOROMETHANE	50	U
108-88-3	-----TOLUENE	310	_____
79-00-5	-----1 1 2-TRICHLOROETHANE	50	U
127-18-4	-----TETRACHLOROETHENE	50	U
124-48-1	-----DIBROMOCHLOROMETHANE	50	U
108-90-7	-----CHLOROBENZENE	50	U
100-41-4	-----ETHYL BENZENE	76	_____
100-42-5	-----STYRENE	50	U
75-25-2	-----BROMOFORM	50	U
79-34-5	-----1 1 2 2-TETRACHLOROETHANE	50	U
67-64-1	-----ACETONE	500	U
75-15-0	-----CARBON DISULFIDE	50	U
78-93-3	-----2-BUTANONE	250	U
108-10-1	-----4-METHYL-2-PENTANONE (MIBK)	250	U
10061-01-5	-----cis-1,3-DICHLOROPROPENE	50	U
10061-02-6	-----trans-1,3-DICHLOROPROPENE	50	U
591-78-6	-----2-HEXANONE	250	U
540-59-0	-----1,2-DICHLOROETHENE (total)	1900	_____
1330-20-7	-----XYLENE (total)	450	_____

FORM 1
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

01998-5

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL

Case No.:

SAS No.:

SDG No.: FTS01

Matrix: (soil/water) WATER

Lab Sample ID: MW-117

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: L277

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 04/01/00

GC Column: DB-624 ID: 0.18 (mm)

Dilution Factor: 10.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 10

CONCENTRATION UNITS:
 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	1.32	2900	JNB
2.	UNKNOWN	2.08	440	JB
3.	UNKNOWN	3.71	320	JB
4.	BENZENE ISOMER	9.58	200	JN 5
5.	BENZENE ISOMER	9.65	88	JN
6.	BENZENE ISOMER	9.82	110	JN
7.	BENZENE ISOMER	9.95	320	JN
8.	BENZENE ISOMER	10.29	160	JN
9.	UNKNOWN	10.45	100	J
10.	UNKNOWN	11.51	95	J
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EPL 11/3/01

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998-6

Lab Name: SAVANNAH LABORATORIES Contract: _____
 Lab Code: SL Case No.: _____ SAS No.: _____ SDG No.: FTS01
 Matrix: (soil/water) WATER Lab Sample ID: MW-115
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L272
 Level: (low/med) LOW Date Received: 03/28/00
 % Moisture: not dec. _____ Date Analyzed: 03/31/00
 GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Handwritten: 03/31/01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	10	U
75-01-4	VINYL CHLORIDE	10	U
74-83-9	BROMOMETHANE	10	U
75-00-3	CHLOROETHANE	10	U
75-35-4	1 1-DICHLOROETHENE	5.0	U
75-09-2	METHYLENE CHLORIDE	5.0	U
75-34-3	1 1-DICHLOROETHANE	5.0	U
67-66-3	CHLOROFORM	5.0	U
71-55-6	1 1 1-TRICHLOROETHANE	5.0	U
56-23-5	CARBON TETRACHLORIDE	5.0	U
71-43-2	BENZENE	5.0	U
107-06-2	1 2-DICHLOROETHANE	5.0	U
79-01-6	TRICHLOROETHENE	5.0	U
78-87-5	1 2-DICHLOROPROPANE	5.0	U
75-27-4	BROMODICHLOROMETHANE	5.0	U
108-88-3	TOLUENE	5.0	U
79-00-5	1 1 2-TRICHLOROETHANE	5.0	U
127-18-4	TETRACHLOROETHENE	5.0	U
124-48-1	DIBROMOCHLOROMETHANE	5.0	U
108-90-7	CHLOROBENZENE	5.0	U
100-41-4	ETHYL BENZENE	5.0	U
100-42-5	STYRENE	5.0	U
75-25-2	BROMOFORM	5.0	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	5.0	U
67-64-1	ACETONE	50	U
75-15-0	CARBON DISULFIDE	5.0	U
78-93-3	2-BUTANONE	25	U
108-10-1	4-METHYL-2-PENTANONE (MIBK)	25	U
10061-01-5	cis-1,3-DICHLOROPROPENE	5.0	U
10061-02-6	trans-1,3-DICHLOROPROPENE	5.0	U
591-78-6	2-HEXANONE	25	U
540-59-0	1,2-DICHLOROETHENE (total)	5.0	U
1330-20-7	XYLENE (total)	10	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

01998-6

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL

Case No.:

SAS No.:

SDG No.: FTS01

Matrix: (soil/water) WATER

Lab Sample ID: MW-115 *115/10*

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: L272

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 03/31/00

GC Column: DB-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	1.33	160	JNB R
2.	UNKNOWN	1.62	19	JJ
3.	UNKNOWN	2.04	13	JB B
4.	UNKNOWN	2.55	9.1	JJ
5.	UNKNOWN	4.17	140	JB B
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DJ 11/3/01

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998-7

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL

Case No.:

SAS No.:

SDG No.: FTS01

Matrix: (soil/water) WATER

Lab Sample ID: 6MW-4

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: L273

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 03/31/00

GC Column: DB-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

74-87-3-----	CHLOROMETHANE	10	U
75-01-4-----	VINYL CHLORIDE	10	U
74-83-9-----	BROMOMETHANE	10	U
75-00-3-----	CHLOROETHANE	10	U
75-35-4-----	1 1-DICHLOROETHENE	5.0	U
75-09-2-----	METHYLENE CHLORIDE	5.0	U
75-34-3-----	1 1-DICHLOROETHANE	5.0	U
67-66-3-----	CHLOROFORM	5.0	U
71-55-6-----	1 1 1-TRICHLOROETHANE	5.0	U
56-23-5-----	CARBON TETRACHLORIDE	5.0	U
71-43-2-----	BENZENE	5.0	U
107-06-2-----	1 2-DICHLOROETHANE	5.0	U
79-01-6-----	TRICHLOROETHENE	5.0	U
78-87-5-----	1 2-DICHLOROPROPANE	5.0	U
75-27-4-----	BROMODICHLOROMETHANE	5.0	U
108-88-3-----	TOLUENE	5.0	U
79-00-5-----	1 1 2-TRICHLOROETHANE	5.0	U
127-18-4-----	TETRACHLOROETHENE	5.0	U
124-48-1-----	DIBROMOCHLOROMETHANE	5.0	U
108-90-7-----	CHLOROBENZENE	5.0	U
100-41-4-----	ETHYL BENZENE	5.0	U
100-42-5-----	STYRENE	5.0	U
75-25-2-----	BROMOFORM	5.0	U
79-34-5-----	1 1 2 2-TETRACHLOROETHANE	5.0	U
67-64-1-----	ACETONE	50	U
75-15-0-----	CARBON DISULFIDE	5.0	U
78-93-3-----	2-BUTANONE	25	U
108-10-1-----	4-METHYL-2-PENTANONE (MIBK)	19	J
10061-01-5-----	cis-1,3-DICHLOROPROPENE	5.0	U
10061-02-6-----	trans-1,3-DICHLOROPROPENE	5.0	U
591-78-6-----	2-HEXANONE	25	U
540-59-0-----	1,2-DICHLOROETHENE (total)	5.0	U
1330-20-7-----	XYLENE (total)	10	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

01998-7

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL

Case No.:

SAS No.:

SDG No.: FTS01

Matrix: (soil/water) WATER

Lab Sample ID: 6MW-4

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: L273

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 03/31/00

GC Column: DB-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	1.33	180	JNB
2.	UNKNOWN	2.03	22	JB
3.	UNKNOWN	3.01	74	J
4.	UNKNOWN	3.99	17	J
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JNB 11/3/01

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998-8

Lab Name: SAVANNAH LABORATORIES Contract:
 Lab Code: SL Case No.: SAS No.: SDG No.: FTS01
 Matrix: (soil/water) WATER Lab Sample ID: 010D-TRIP BLANK
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L267
 Level: (low/med) LOW Date Received: 03/28/00
 % Moisture: not dec. Date Analyzed: 03/31/00
 GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	10	U
75-01-4	VINYL CHLORIDE	10	U
74-83-9	BROMOMETHANE	10	U
75-00-3	CHLOROETHANE	10	U
75-35-4	1 1-DICHLOROETHENE	5.0	U
75-09-2	METHYLENE CHLORIDE	5.0	U
75-34-3	1 1-DICHLOROETHANE	5.0	U
67-66-3	CHLOROFORM	5.0	U
71-55-6	1 1 1-TRICHLOROETHANE	5.0	U
56-23-5	CARBON TETRACHLORIDE	5.0	U
71-43-2	BENZENE	5.0	U
107-06-2	1 2-DICHLOROETHANE	5.0	U
79-01-6	TRICHLOROETHENE	5.0	U
78-87-5	1 2-DICHLOROPROPANE	5.0	U
75-27-4	BROMODICHLOROMETHANE	5.0	U
108-88-3	TOLUENE	5.0	U
79-00-5	1 1 2-TRICHLOROETHANE	5.0	U
127-18-4	TETRACHLOROETHENE	5.0	U
124-48-1	DIBROMOCHLOROMETHANE	5.0	U
108-90-7	CHLOROBENZENE	5.0	U
100-41-4	ETHYL BENZENE	5.0	U
100-42-5	STYRENE	5.0	U
75-25-2	BROMOFORM	5.0	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	5.0	U
67-64-1	ACETONE	50	U
75-15-0	CARBON DISULFIDE	5.0	U
78-93-3	2-BUTANONE	25	U
108-10-1	4-METHYL-2-PENTANONE (MIBK)	25	U
10061-01-5	cis-1,3-DICHLOROPROPENE	5.0	U
10061-02-6	trans-1,3-DICHLOROPROPENE	5.0	U
591-78-6	2-HEXANONE	25	U
540-59-0	1,2-DICHLOROETHENE (total)	5.0	U
1330-20-7	XYLENE (total)	10	U

FORM 1
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

01998-8

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL

Case No.:

SAS No.:

SDG No.: FTS01

Matrix: (soil/water) WATER

Lab Sample ID: 010D-TRIP BLANK

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: L267

Level: (low/med) LOW

Date Received: 03/28/00

% Moisture: not dec. _____

Date Analyzed: 03/31/00

GC Column: DB-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 5

CONCENTRATION UNITS:
 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-38-9	CARBON DIOXIDE	1.32	100	JNB
2.	UNKNOWN	1.64	21	J
3.	UNKNOWN	2.05	24	JB
4.	UNKNOWN	2.60	25	J
5.	UNKNOWN	3.05	120	J
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JLH 11/2/01

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01956-1

Lab Name: SAVANNAH LABORATORIES Contract: _____
 Lab Code: SL-SAV Case No.: _____ SAS No.: _____ SDG No.: FTS01
 Matrix: (soil/water) WATER Lab Sample ID: MW-112
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: CAP0427
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 03/24/00
 Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 03/27/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 04/05/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01956-2

Lab Name: SAVANNAH LABORATORIES Contract: _____
 Lab Code: SL-SAV Case No.: _____ SAS No.: _____ SDG No.: FTS01
 Matrix: (soil/water) WATER Lab Sample ID: MW-114A
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: CAP0428
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 03/24/00
 Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 03/27/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 04/05/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U UJ
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01956-3

Lab Name: SAVANNAH LABORATORIES Contract:
 Lab Code: SL-SAV Case No.: SAS No.: SDG No.: FTS01
 Matrix: (soil/water) WATER Lab Sample ID: MW-111
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: AAP19023
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 03/24/00
 Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 03/27/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 04/20/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L Q

319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
7421-93-4-----	Endrin aldehyde	0.10	U
5103-71-9-----	alpha-Chlordane	0.050	U
5103-74-2-----	gamma-Chlordane	0.050	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	1.0	U
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01956-4

Lab Name: SAVANNAH LABORATORIES Contract:
 Lab Code: SL-SAV Case No.: SAS No.: SDG No.: FTS01
 Matrix: (soil/water) WATER Lab Sample ID: 4-MW-1
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: AAP19021
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 03/24/00
 Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 03/27/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 04/20/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01956-5

Lab Name: SAVANNAH LABORATORIES Contract:
 Lab Code: SL-SAV Case No.: SAS No.: SDG No.: FTS01
 Matrix: (soil/water) WATER Lab Sample ID: 4-MW-1D
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: AAP19022
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 03/24/00
 Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 03/27/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 04/20/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U VJ
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

GJK 1/4/01

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998-1

Lab Name: SAVANNAH LABORATORIES Contract: _____
 Lab Code: SL-SAV Case No.: _____ SAS No.: _____ SDG No.: FTS01
 Matrix: (soil/water) WATER Lab Sample ID: 6MW-1
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: CAP09105
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 03/28/00
 Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 03/29/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 04/11/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U <i>US</i>
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Q12 1/4/01

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998-2

Lab Name: SAVANNAH LABORATORIES Contract:
 Lab Code: SL-SAV Case No.: SAS No.: SDG No.: FTS01
 Matrix: (soil/water) WATER Lab Sample ID: 6MW-35
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: CAP09106
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 03/28/00
 Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 03/29/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 04/11/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

OK 1/21/01

CAS NO. COMPOUND CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L Q

319-84-6	alpha-BHC	0.050	U	<i>VJ</i>
319-85-7	beta-BHC	0.050	U	
319-86-8	delta-BHC	0.050	U	
58-89-9	gamma-BHC (Lindane)	0.050	U	
76-44-8	Heptachlor	0.050	U	
309-00-2	Aldrin	0.050	U	
1024-57-3	Heptachlor epoxide	0.050	U	
959-98-8	Endosulfan I	0.050	U	
60-57-1	Dieldrin	0.10	U	
72-55-9	4,4'-DDE	0.10	U	
72-20-8	Endrin	0.10	U	
33213-65-9	Endosulfan II	0.10	U	
72-54-8	4,4'-DDD	0.10	U	
1031-07-8	Endosulfan sulfate	0.10	U	
50-29-3	4,4'-DDT	0.10	U	
72-43-5	Methoxychlor	0.50	U	
53494-70-5	Endrin ketone	0.10	U	
7421-93-4	Endrin aldehyde	0.10	U	
5103-71-9	alpha-Chlordane	0.050	U	
5103-74-2	gamma-Chlordane	0.050	U	
8001-35-2	Toxaphene	5.0	U	
12674-11-2	Aroclor-1016	1.0	U	
11104-28-2	Aroclor-1221	2.0	U	
11141-16-5	Aroclor-1232	1.0	U	
53469-21-9	Aroclor-1242	1.0	U	
12672-29-6	Aroclor-1248	1.0	U	
11097-69-1	Aroclor-1254	1.0	U	
11096-82-5	Aroclor-1260	1.0	U	

OK 1/9/01

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998-3

Lab Name: SAVANNAH LABORATORIES Contract:
 Lab Code: SL-SAV Case No.: SAS No.: SDG No.: FTS01
 Matrix: (soil/water) WATER Lab Sample ID: 6MW-35D
 Sample wt/vol: 970.0 (g/mL) ML Lab File ID: CAP09107
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 03/28/00
 Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 03/29/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 04/11/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

*OK
 11/3/01*

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U <i>UJ</i>
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U <i>UJ</i>
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

OK 11/4/01

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998-4

Lab Name: SAVANNAH LABORATORIES Contract:
 Lab Code: SL-SAV Case No.: SAS No.: SDG No.: FTS01
 Matrix: (soil/water) WATER Lab Sample ID: MW-118
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: CAP09108
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 03/28/00
 Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 03/29/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 04/11/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Handwritten signature and date: 1/9/01

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998-5

Lab Name: SAVANNAH LABORATORIES Contract: _____
 Lab Code: SL-SAV Case No.: _____ SAS No.: _____ SDG No.: FTS01
 Matrix: (soil/water) WATER Lab Sample ID: MW-117
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: AAP19020
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 03/28/00
 Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 03/29/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 04/20/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U R
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Handwritten: 11/4/01

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998-6

Lab Name: SAVANNAH LABORATORIES Contract:
 Lab Code: SL-SAV Case No.: SAS No.: SDG No.: FTS01
 Matrix: (soil/water) WATER Lab Sample ID: MW-115
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: CAP09110
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 03/28/00
 Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 03/29/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 04/11/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

OK 1/2/01

CAS NO. COMPOUND CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L Q

319-84-6	alpha-BHC	0.050	U	UJ
319-85-7	beta-BHC	0.050	U	
319-86-8	delta-BHC	0.050	U	
58-89-9	gamma-BHC (Lindane)	0.050	U	
76-44-8	Heptachlor	0.050	U	
309-00-2	Aldrin	0.050	U	
1024-57-3	Heptachlor epoxide	0.050	U	
959-98-8	Endosulfan I	0.050	U	
60-57-1	Dieldrin	0.10	U	
72-55-9	4,4'-DDE	0.10	U	
72-20-8	Endrin	0.10	U	
33213-65-9	Endosulfan II	0.10	U	
72-54-8	4,4'-DDD	0.10	U	
1031-07-8	Endosulfan sulfate	0.10	U	
50-29-3	4,4'-DDT	0.10	U	U
72-43-5	Methoxychlor	0.50	U	
53494-70-5	Endrin ketone	0.10	U	
7421-93-4	Endrin aldehyde	0.10	U	
5103-71-9	alpha-Chlordane	0.050	U	
5103-74-2	gamma-Chlordane	0.050	U	
8001-35-2	Toxaphene	5.0	U	
12674-11-2	Aroclor-1016	1.0	U	
11104-28-2	Aroclor-1221	2.0	U	
11141-16-5	Aroclor-1232	1.0	U	
53469-21-9	Aroclor-1242	1.0	U	
12672-29-6	Aroclor-1248	1.0	U	
11097-69-1	Aroclor-1254	1.0	U	
11096-82-5	Aroclor-1260	1.0	U	

OK 1/4/01

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

01998-7

Lab Name: SAVANNAH LABORATORIES Contract:
 Lab Code: SL-SAV Case No.: SAS No.: SDG No.: FTS01
 Matrix: (soil/water) WATER Lab Sample ID: 6MW-4
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: CAP09111
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 03/28/00
 Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 03/29/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 04/11/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U UJ
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U UJ
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Handwritten signature and date: DJ 11/4/01

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-112

Contract:

Lab Code: SLSAV

Case No.:

SAS No.:

SDG NO.: FTS01

Matrix (soil/water): WATER

Lab Sample ID: S001956-1

Level (low/med): LOW

Date Received: 24-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6.0	U		P
7440-36-0	Antimony	2.7	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	6.1	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	19000			P
7440-47-3	Chromium	0.70	U		P
7440-48-4	Cobalt	0.90	U		P
7440-50-8	Copper	3.1	B		P
7439-89-6	Iron	320			P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	4900			P
7439-96-5	Manganese	4.2	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.1	U		P
7440-09-7	Potassium	1800			P
7782-49-2	Selenium	3.4	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	6700			P
7440-28-0	Thallium	4.3	U		P
7440-62-2	Vanadium	1.6	B		P
7440-66-6	Zinc	18	B		P

J

B

B

J

1/26/01
GWS

Color Before:

Clarity Before:

Texture:

Col. After:

Clarity After:

Artifacts:

Comments:

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-112F

Contract:

Lab Code: SLSAV Case No.: SAS No.: SDG NO.: FTS01

Matrix (soil/water): WATER Lab Sample ID: S001956-1F

Level (low/med): LOW Date Received: 24-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	64	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		P B
7440-36-0	Antimony	5.7	<input checked="" type="checkbox"/>			P B
7440-38-2	Arsenic	3.0	<input type="checkbox"/>			P
7440-39-3	Barium	6.2	<input checked="" type="checkbox"/>			P B
7440-41-7	Beryllium	0.10	<input type="checkbox"/>			P
7440-43-9	Cadmium	0.50	<input type="checkbox"/>			P
7440-70-2	Calcium	18000				P
7440-47-3	Chromium	0.99	<input checked="" type="checkbox"/>			P B
7440-48-4	Cobalt	0.90	<input type="checkbox"/>			P
7440-50-8	Copper	2.6	<input checked="" type="checkbox"/>			P B
7439-89-6	Iron	140				P
7439-92-1	Lead	2.4	<input type="checkbox"/>			P
7439-95-4	Magnesium	4900				P
7439-96-5	Manganese	4.7	<input checked="" type="checkbox"/>			P B
7439-97-6	Mercury	0.10	<input type="checkbox"/>			CV
7440-02-0	Nickel	1.1	<input type="checkbox"/>			P
7440-09-7	Potassium	2000				P
7782-49-2	Selenium	3.4	<input type="checkbox"/>			P
7440-22-4	Silver	0.50	<input type="checkbox"/>			P
7440-23-5	Sodium	6800				P
7440-28-0	Thallium	4.3	<input type="checkbox"/>			P
7440-62-2	Vanadium	1.8	<input checked="" type="checkbox"/>			P B
7440-66-6	Zinc	15	<input checked="" type="checkbox"/>			P J

Handwritten:
1/26/01

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments: "F" DENOTES DISSOLVED

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-114A

Contract:

Lab Code: SLSAV

Case No.:

SAS No.:

SDG NO.: FTS01

Matrix (soil/water): WATER

Lab Sample ID: S001956-2

Level (low/med): LOW

Date Received: 24-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	920			P
7440-36-0	Antimony	2.7	U		P
7440-38-2	Arsenic	3.4	B		P
7440-39-3	Barium	13			P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	11000			P
7440-47-3	Chromium	1.2	B		P
7440-48-4	Cobalt	0.90	U		P
7440-50-8	Copper	1.3	B		P
7439-89-6	Iron	4100			P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	8700			P
7439-96-5	Manganese	24			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	2.2	B		P
7440-09-7	Potassium	2600			P
7782-49-2	Selenium	3.4	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	36000			P
7440-28-0	Thallium	4.3	U		P
7440-62-2	Vanadium	2.6	B		P
7440-66-6	Zinc	73			P

Handwritten: 1/26/01

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-114AF

Contract:

Lab Code: SLSAV Case No.: SAS No.: SDG NO.: FTS01

Matrix (soil/water): WATER Lab Sample ID: S001956-2F

Level (low/med): LOW Date Received: 24-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	590		F	P
7440-36-0	Antimony	2.7	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	12			P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	10000			P
7440-47-3	Chromium	1.7	F		P
7440-48-4	Cobalt	1.2	F		P
7440-50-8	Copper	0.90	U		P
7439-89-6	Iron	2100			P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	8400			P
7439-96-5	Manganese	23			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	3.0	F		P
7440-09-7	Potassium	2600			P
7782-49-2	Selenium	3.4	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	36000			P
7440-28-0	Thallium	4.3	U		P
7440-62-2	Vanadium	1.4	F		P
7440-66-6	Zinc	65			P

Gfi 1/26/01

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments: "F" DENOTES DISSOLVED

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-111

Contract:

Lab Code: SLSAV

Case No.:

SAS No.:

SDG NO.: FTS01

Matrix (soil/water): WATER

Lab Sample ID: S001956-3

Level (low/med): LOW

Date Received: 24-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	580			P
7440-36-0	Antimony	2.7	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	19			P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	9300			P
7440-47-3	Chromium	0.70	U		P
7440-48-4	Cobalt	0.90	U		P
7440-50-8	Copper	4.7	B		P
7439-89-6	Iron	280			P
7439-92-1	Lead	2.8	B		P
7439-95-4	Magnesium	1200			P
7439-96-5	Manganese	7.9	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.1	U		P
7440-09-7	Potassium	3000			P
7782-49-2	Selenium	3.4	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	7200			P
7440-28-0	Thallium	4.3	U		P
7440-62-2	Vanadium	0.70	U		P
7440-66-6	Zinc	20	B		P

OKD 11/26/01

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-111F

Contract:

Lab Code: SLSAV

Case No.:

SAS No.:

SDG NO.: FTS01

Matrix (soil/water): WATER

Lab Sample ID: S001956-3F

Level (low/med): LOW

Date Received: 24-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	410		F	P
7440-36-0	Antimony	2.7	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	18			P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	8800			P
7440-47-3	Chromium	1.3	F		P
7440-48-4	Cobalt	0.90	U		P
7440-50-8	Copper	2.7	F		P
7439-89-6	Iron	180			P
7439-92-1	Lead	4.5	F		P
7439-95-4	Magnesium	1100			P
7439-96-5	Manganese	6.5	F		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.1	U		P
7440-09-7	Potassium	3000			P
7782-49-2	Selenium	3.4	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	6700			P
7440-28-0	Thallium	4.3	U		P
7440-62-2	Vanadium	1.2	F		P
7440-66-6	Zinc	13	F		P

DKL 1/26/01

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments: "F" DENOTES DISSOLVED

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

4-MW-1

Contract:

Lab Code: SLSAV

Case No.:

SAS No.:

SDG NO.: FTS01

Matrix (soil/water): WATER

Lab Sample ID: S001956-4

Level (low/med): LOW

Date Received: 24-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	460			P
7440-36-0	Antimony	2.7	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	18			P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	6200			P
7440-47-3	Chromium	0.70	U		P
7440-48-4	Cobalt	0.90	U		P
7440-50-8	Copper	21			P
7439-89-6	Iron	280			P
7439-92-1	Lead	2.8	B		P
7439-95-4	Magnesium	970			P
7439-96-5	Manganese	3.7	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.1	U		P
7440-09-7	Potassium	1300			P
7782-49-2	Selenium	3.4	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	5400			P
7440-28-0	Thallium	4.3	U		P
7440-62-2	Vanadium	0.75	B		P
7440-66-6	Zinc	83			P

gnd 1/26/01

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

4-MW-1F

Contract:

Lab Code: SLSAV

Case No.:

SAS No.:

SDG NO.: FTS01

Matrix (soil/water): WATER

Lab Sample ID: S001956-4F

Level (low/med): LOW

Date Received: 24-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	180	B	B	P
7440-36-0	Antimony	3.8	B		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	16			P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	5800			P
7440-47-3	Chromium	0.70	U		P
7440-48-4	Cobalt	0.90	U		P
7440-50-8	Copper	7.5	B		P
7439-89-6	Iron	130			P
7439-92-1	Lead	4.6	B		P
7439-95-4	Magnesium	910			P
7439-96-5	Manganese	2.3	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.1	U		P
7440-09-7	Potassium	1200			P
7782-49-2	Selenium	3.4	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	5000			P
7440-28-0	Thallium	4.3	U		P
7440-62-2	Vanadium	1.4	B		P
7440-66-6	Zinc	65			P

Handwritten: OKD 1/26/01

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments: "F" DENOTES DISSOLVED

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

4-MW-1D

Contract:

Lab Code: SLSAV Case No.: SAS No.: SDG NO.: FTS01

Matrix (soil/water): WATER Lab Sample ID: S001956-5

Level (low/med): LOW Date Received: 24-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	470			P
7440-36-0	Antimony	2.7	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	18			P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	6200			P
7440-47-3	Chromium	0.70	U		P
7440-48-4	Cobalt	0.90	U		P
7440-50-8	Copper	18	E		P
7439-89-6	Iron	270			P
7439-92-1	Lead	4.0	E		P
7439-95-4	Magnesium	980			P
7439-96-5	Manganese	3.7	E		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.1	U		P
7440-09-7	Potassium	1300			P
7782-49-2	Selenium	3.4	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	5500			P
7440-28-0	Thallium	4.3	U		P
7440-62-2	Vanadium	0.81	E		P
7440-66-6	Zinc	83			P

OK 1/26/01

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

4-MW-1DF

Contract:

Lab Code: SLSAV

Case No.:

SAS No.:

SDG NO.: FTS01

Matrix (soil/water): WATER

Lab Sample ID: S001956-5F

Level (low/med): LOW

Date Received: 24-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	200	B	E	P
7440-36-0	Antimony	2.9	B		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	17			P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	5900			P
7440-47-3	Chromium	0.70	U		P
7440-48-4	Cobalt	0.90	U		P
7440-50-8	Copper	7.9	B		P
7439-89-6	Iron	130			P
7439-92-1	Lead	2.6	B		P
7439-95-4	Magnesium	920			P
7439-96-5	Manganese	2.5	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.1	U		P
7440-09-7	Potassium	1300			P
7782-49-2	Selenium	3.4	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	5100			P
7440-28-0	Thallium	4.3	U		P
7440-62-2	Vanadium	1.1	B		P
7440-66-6	Zinc	70			P

OK 1/26/01

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments: "F" DENOTES DISSOLVED

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

6MW-1

Contract:

Lab Code: SLSAV Case No.: SAS No.: SDG NO.: FTS01

Matrix (soil/water): WATER Lab Sample ID: S001998-1

Level (low/med): LOW Date Received: 28-MAR-2000

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6.0	U		P
7440-36-0	Antimony	2.7	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	5.5	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	6700			P
7440-47-3	Chromium	0.70	U		P
7440-48-4	Cobalt	0.90	U		P
7440-50-8	Copper	1.4	B		P
7439-89-6	Iron	4600			P
7439-92-1	Lead	2.8	B		P
7439-95-4	Magnesium	2700			P
7439-96-5	Manganese	44			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.1	U		P
7440-09-7	Potassium	2400			P
7782-49-2	Selenium	3.4	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	8000			P
7440-28-0	Thallium	4.3	U		P
7440-62-2	Vanadium	0.70	U		P
7440-66-6	Zinc	3.3	B		P

OKD 1/26/01

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

03693-8

Lab Name: SAVANNAH LABORATORIES Contract:
 Lab Code: SL-SAV Case No.: SAS No.: SDG No.: FTS03
 Matrix: (soil/water) SOIL Lab Sample ID: FTA-SS7
 Sample wt/vol: 30 (g/mL) G Lab File ID: SJN27018
 % Moisture: 5 decanted: (Y/N) N Date Received: 06/07/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/08/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 06/27/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
319-84-6	alpha-BHC	1.8	U	
319-85-7	beta-BHC	1.8	U	
319-86-8	delta-BHC	1.8	U	
58-89-9	gamma-BHC (Lindane)	1.8	U	
76-44-8	Heptachlor	1.8	U	
309-00-2	Aldrin	1.8	U	
1024-57-3	Heptachlor epoxide	1.8	U	
959-98-8	Endosulfan I	1.8	U	
60-57-1	Dieldrin	3.5	U	
72-55-9	4,4'-DDE	2.6	J	
72-20-8	Endrin	3.5	U	
33213-65-9	Endosulfan II	3.5	U	
72-54-8	4,4'-DDD	3.5	U	
1031-07-8	Endosulfan sulfate	3.5	U	
50-29-3	4,4'-DDT	7.8	J	
72-43-5	Methoxychlor	18	U	
53494-70-5	Endrin ketone	3.5	U	
7421-93-4	Endrin aldehyde	3.5	U	
5103-71-9	alpha-Chlordane	1.8	U	
5103-74-2	gamma-Chlordane	0.84	J	
8001-35-2	Toxaphene	180	U	

OK 11/2/01

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

03693-9

Lab Name: SAVANNAH LABORATORIES Contract: _____
 Lab Code: SL-SAV Case No.: _____ SAS No.: _____ SDG No.: FTS03
 Matrix: (soil/water) SOIL Lab Sample ID: FTA-SS8
 Sample wt/vol: 30 (g/mL) G Lab File ID: SJN27019
 % Moisture: 1 decanted: (Y/N) N Date Received: 06/07/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/08/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 06/27/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	0.91	J
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	2.8	J 4
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	0.45	J 4
8001-35-2	Toxaphene	170	U

Handwritten: 1/2/01

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

03693-10

Lab Name: SAVANNAH LABORATORIES Contract: _____
 Lab Code: SL-SAV Case No.: _____ SAS No.: _____ SDG No.: FTS03
 Matrix: (soil/water) SOIL Lab Sample ID: LARC60-SS1
 Sample wt/vol: 30 (g/mL) G Lab File ID: SJN27020
 % Moisture: 1 decanted: (Y/N) N Date Received: 06/07/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/08/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 06/28/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

03693-11

Lab Name: SAVANNAH LABORATORIES Contract: _____
 Lab Code: SL-SAV Case No.: _____ SAS No.: _____ SDG No.: FTS03
 Matrix: (soil/water) SOIL Lab Sample ID: LARC60-SS2
 Sample wt/vol: 30 (g/mL) G Lab File ID: SJN27021
 % Moisture: 0 decanted: (Y/N) N Date Received: 06/07/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/08/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 06/28/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG Q

319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.6	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	0.55	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U

Handwritten: 11-1-01

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

03693-12

Lab Name: SAVANNAH LABORATORIES Contract: _____
 Lab Code: SL-SAV Case No.: _____ SAS No.: _____ SDG No.: FTS03
 Matrix: (soil/water) SOIL Lab Sample ID: LARC60-SS2D
 Sample wt/vol: 30 (g/mL) G Lab File ID: SJN27022
 % Moisture: 0 decanted: (Y/N) N Date Received: 06/07/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/08/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 06/28/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

03693-13

Lab Name: SAVANNAH LABORATORIES Contract: _____
 Lab Code: SL-SAV Case No.: _____ SAS No.: _____ SDG No.: FTS03
 Matrix: (soil/water) SOIL Lab Sample ID: LARC60-SS3
 Sample wt/vol: 30 (g/mL) G Lab File ID: SJN27023
 % Moisture: 0 decanted: (Y/N) N Date Received: 06/07/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/08/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 06/28/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	0.30	J
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	1.6	J
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	1.8	J
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	0.51	J
5103-74-2	gamma-Chlordane	0.63	J
8001-35-2	Toxaphene	170	U

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FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

03693-14

Lab Name: SAVANNAH LABORATORIES Contract: _____
 Lab Code: SL-SAV Case No.: _____ SAS No.: _____ SDG No.: FTS03
 Matrix: (soil/water) SOIL Lab Sample ID: LARC60-SS4
 Sample wt/vol: 30 (g/mL) G Lab File ID: SJN27024
 % Moisture: 0 decanted: (Y/N) N Date Received: 06/07/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/08/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 06/28/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
319-84-6	alpha-BHC	1.7	U	
319-85-7	beta-BHC	1.7	U	
319-86-8	delta-BHC	1.7	U	
58-89-9	gamma-BHC (Lindane)	1.7	U	
76-44-8	Heptachlor	1.7	U	
309-00-2	Aldrin	1.7	U	
1024-57-3	Heptachlor epoxide	1.7	U	
959-98-8	Endosulfan I	1.7	U	
60-57-1	Dieldrin	3.3	U	
72-55-9	4,4'-DDE	3.3	U	
72-20-8	Endrin	3.3	U	
33213-65-9	Endosulfan II	3.3	U	
72-54-8	4,4'-DDD	1.2	J	
1031-07-8	Endosulfan sulfate	3.3	U	
50-29-3	4,4'-DDT	1.3	J	
72-43-5	Methoxychlor	17	U	
53494-70-5	Endrin ketone	3.3	U	
7421-93-4	Endrin aldehyde	3.3	U	
5103-71-9	alpha-Chlordane	1.7	U	
5103-74-2	gamma-Chlordane	1.7	U	
8001-35-2	Toxaphene	170	U	

Handwritten signature 1/2/01

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

03693-15

Lab Name: SAVANNAH LABORATORIES Contract: _____
 Lab Code: SL-SAV Case No.: _____ SAS No.: _____ SDG No.: FTS03
 Matrix: (soil/water) SOIL Lab Sample ID: LARC60-SS5
 Sample wt/vol: 30 (g/mL) G Lab File ID: SJN27025
 % Moisture: 8 decanted: (Y/N) N Date Received: 06/07/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/08/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 06/28/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG Q

319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	1.7	J
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	7.1	J
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U

Handwritten signature 1/2/01

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

03693-16

Lab Name: SAVANNAH LABORATORIES Contract: _____
 Lab Code: SL-SAV Case No.: _____ SAS No.: _____ SDG No.: FTS03
 Matrix: (soil/water) SOIL Lab Sample ID: LARC60-SS6
 Sample wt/vol: 30 (g/mL) G Lab File ID: SJN27026
 % Moisture: 6 decanted: (Y/N) N Date Received: 06/07/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/08/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 06/28/00
 Injection Volume: 2.0 (uL) Dilution Factor: 5.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	9.0	U
319-85-7	beta-BHC	9.0	U
319-86-8	delta-BHC	9.0	U
58-89-9	gamma-BHC (Lindane)	9.0	U
76-44-8	Heptachlor	9.0	U
309-00-2	Aldrin	9.0	U
1024-57-3	Heptachlor epoxide	9.0	U
959-98-8	Endosulfan I	9.0	U
60-57-1	Dieldrin	18	U
72-55-9	4,4'-DDE	13	J
72-20-8	Endrin	18	U
33213-65-9	Endosulfan II	18	U
72-54-8	4,4'-DDD	18	U
1031-07-8	Endosulfan sulfate	4.3	U
50-29-3	4,4'-DDT	39	U
72-43-5	Methoxychlor	90	U
53494-70-5	Endrin ketone	18	U
7421-93-4	Endrin aldehyde	18	U
5103-71-9	alpha-Chlordane	9.0	U
5103-74-2	gamma-Chlordane	9.0	U
8001-35-2	Toxaphene	900	U

Handwritten: 11/2/01

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

03693-17

Lab Name: SAVANNAH LABORATORIES Contract: _____
 Lab Code: SL-SAV Case No.: _____ SAS No.: _____ SDG No.: FTS03
 Matrix: (soil/water) SOIL Lab Sample ID: LARC60-SS7
 Sample wt/vol: 30 (g/mL) G Lab File ID: SJN27027
 % Moisture: 0 decanted: (Y/N) N Date Received: 06/07/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/08/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 06/28/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	0.47	JF
72-55-9	4,4'-DDE	1.0	J
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	2.1	J
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	5.2	PJ
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	0.49	JF
8001-35-2	Toxaphene	170	U

Handwritten signature and date: 1/2/01

FORM 1
 PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

03693-18

Lab Name: SAVANNAH LABORATORIES Contract: _____
 Lab Code: SL-SAV Case No.: _____ SAS No.: _____ SDG No.: FTS03
 Matrix: (soil/water) SOIL Lab Sample ID: LARC60-SS8
 Sample wt/vol: 30 (g/mL) G Lab File ID: SJN28010
 % Moisture: 1 decanted: (Y/N) N Date Received: 06/07/00
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/08/00
 Concentrated Extract Volume: 10 (mL) Date Analyzed: 06/28/00
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
319-84-6	alpha-BHC	1.7	U	
319-85-7	beta-BHC	1.7	U	
319-86-8	delta-BHC	1.7	U	
58-89-9	gamma-BHC (Lindane)	1.7	U	
76-44-8	Heptachlor	1.7	U	
309-00-2	Aldrin	1.7	U	
1024-57-3	Heptachlor epoxide	1.7	U	
959-98-8	Endosulfan I	1.7	U	
60-57-1	Dieldrin	3.3	U	
72-55-9	4,4'-DDE	3.3	U	
72-20-8	Endrin	3.3	U	
33213-65-9	Endosulfan II	3.3	U	
72-54-8	4,4'-DDD	3.3	U	
1031-07-8	Endosulfan sulfate	3.3	U	
50-29-3	4,4'-DDT	3.3	U	
72-43-5	Methoxychlor	1.6	U	5
53494-70-5	Endrin ketone	17	U	
7421-93-4	Endrin aldehyde	3.3	U	
5103-71-9	alpha-Chlordane	3.3	U	
5103-74-2	gamma-Chlordane	1.7	U	
8001-35-2	Toxaphene	1.7	U	
		170	U	

Handwritten signature 1/2/01

APPENDIX C

SUPPORT DOCUMENTATION

TABLE C-1
USEPA REGION III
SUMMARY OF CALIBRATION OUTLIERS
TCL Pesticides

Laboratory SDG Number: FTS03

Laboratory: STL - Savannah

Column ID: Compound:	Initial Calibration Rtx-Pest-CLP2 5/22/00-6/21/00		Continuing Calibration Rtx-Pest-CLP2 06/28/2000 5:53		Continuing Calibration Rtx-Pest-CLP2 06/28/2000 16:58		Continuing Calibration Rtx-Pest-CLP2 06/29/2000 1:55	
	%RSD	Code*	%D	Code*	%D	Code*	%D	Code*
alpha-BHC								
beta-BHC								
delta-BHC								
gamma-BHC(Lindane)								
Heptachlor								
Aldrin								
Heptachlor epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endosulfan sulfate								
4,4'-DDT			41.0	C	27.5	C	50.0	C
Methoxychlor								
Endrin ketone								
alpha-chlordane								
gamma-chlordane								
Toxaphene								
Aroclor-1016								
Aroclor-1221								
Aroclor-1232								
Aroclor-1242								
Aroclor-1248								
Aroclor-1254								
Aroclor-1260								
Affected Samples:			FTA-SS1	FTA-SS5	LARC60-SS2	LARC60-SS6		
			FTA-SS2	FTA-SS6	LARC60-SS3	LARC60-SS7		
			FTA-SS3	FTA-SS7	LARC60-SS4	LARC60-SS8		
			FTA-SS4	FTA-SS8	LARC60-SS5			

Codes:

I - The %RSD exceeded 20% in the initial calibration. Therefore, positive results are qualified "J".
 When the %RSD exceeds 50%, quantitation limits are qualified "UJ".

C - The %D exceeded 25.0% in the continuing calibration. Therefore, positive results are qualified "J".
 When the %D exceeds 50%, quantitation limits are qualified "UJ".

+ - The "B" qualifier, denoting blank contamination, supersedes the qualifier issued in this table.

R - The "R" qualifier, denoting unusable results, supersedes the qualifier issued in this table.

TABLE C-2
 USEPA REGION III
 SUMMARY OF SURROGATE OUTLIERS
 TCL PCBs

Laboratory SDG Number: FTS02

Laboratory: STL - Savannah

Sample Identifier: Acceptance Range (%R):	Sample Recoveries (%R)				Qualifiers
	Column 1		Column 2		
	TCX	DCB	TCX	DCB	
	30-150	30-150	30-150	30-150	
1. LARC60-SS7	29		25		J/UJ
2. LARC60-SS8	22		16	28	UL
3. LARC60-SS4	27		19		UJ
4. LARC60-SS3	11	14	8	13	R
5. LARC60-SS5	21		16		UJ
6. LARC60-SS6	24		27		UJ

SDG NO. FTS02



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

- 5102 LaRoche Avenue, Savannah, GA 31404
- 2846 Industrial Plaza Drive, Tallahassee, FL 32301
- 900 Lakeside Drive, Mobile, AL 36693
- 6712 Benjamin Rd., Suite 100, Tampa, FL 33634

- Phone: (912) 354-7858 Fax: (912) 352-0165
- Phone: (850) 878-3994 Fax: (850) 878-9504
- Phone: (334) 666-6633 Fax: (334) 666-6696
- Phone: (813) 885-7427 Fax: (813) 885-7049

000002

ORIGINAL

PROJECT REFERENCE Fl Slurry Remedial Investing		PROJECT NO. 0085-783	PROJECT LOCATION (STATE) VA	MATRIX TYPE	REQUIRED ANALYSES										PAGE 1	OF 2
STL (LAB) PROJECT MANAGER L. WOLFE		P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ETC.)	None PCB										STANDARD REPORT DELIVERY <input type="radio"/>	
CLIENT (SITE) PM TONY PAGE		CLIENT PHONE 757-573-8700	CLIENT FAX 757-813-8723												DATE DUE _____	
CLIENT NAME Malcolm Pirnie, Inc		CLIENT EMAIL apace@pirnie.com													EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	
CLIENT ADDRESS 11522 Rock Landing Dr - Suite 400, Newport News, VA 23606		COMPANY CONTRACTING THIS WORK (if applicable): ALOE													DATE DUE _____	
SAMPLE		SAMPLE IDENTIFICATION			NUMBER OF CONTAINERS SUBMITTED										REMARKS	

DATE	TIME	SAMPLE IDENTIFICATION		COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ETC.)	NUMBER OF CONTAINERS SUBMITTED										REMARKS
3/24/00	0910	FTA-SS6		G	✓														
	0915	FTA-SS5		G	✓														
	0920	FTA-SS8		G	✓														
	0925	FTA-SS7	MS/MSD	G	✓														ALSO MS/MSD Sample
	0930	FTA-SS4		G	✓														
	0935	FTA-SS3		G	✓														
	0940	FTA-SS2		G	✓														
	0943	FTA-SS1		G	✓														
	0945	FTA-SS10		G	✓														
	1000	LARLGO-SS1		G	✓														
	1006	LARLGO-SS10		G	✓														
	1008	LARLGO-SS2		G	✓														

RELINQUISHED BY: (SIGNATURE) <i>Shelly Koller</i>	DATE 3/27/00	TIME 1300	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY							
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>C. Varian</i>	DATE 3/28/00	TIME 10:15	CUSTODY INTACT YES NO	CUSTODY SEAL NO.	STL-SL LOG NO. 50-01998	LABORATORY REMARKS:	

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

- 5102 LaRoche Avenue, Savannah, GA 31404
- 2846 Industrial Plaza Drive, Tallahassee, FL 32301
- 414 SW 12th Avenue, Deerfield Beach, FL 33442
- 900 Lakeside Drive, Mobile, AL 36693
- 6712 Benjamin Road, Suite 100, Tampa, FL 33634
- 100 Alpha Drive, Suite 110, Destrehan, LA 70047

Phone: (912) 354-7858 Fax: (912) 352-0165
 Phone: (904) 878-3994 Fax: (904) 878-9504
 Phone: (954) 421-7400 Fax: (954) 421-2584
 Phone: (334) 666-6633 Fax: (334) 666-6696
 Phone: (813) 885-7427 Fax: (813) 885-7049
 Phone: (504) 764-1100 Fax: (504) 725-1163

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: Ft. Story Remedial Investigation
 PROJECT NO.: 0285-783
 P.O. NUMBER: *JA*

PROJECT LOC. (State): VA
 SAMPLER(S) NAME: CMP SK
 PHONE: 757 873 8100
 FAX: 757 873 8723

CLIENT NAME: Malcolm Pirnie, Inc
 CLIENT PROJECT MANAGER: TONY PACE

CLIENT ADDRESS (CITY, STATE, ZIP): 11832 Rock Landing Dr. Suite 400, Newport News VA 23606

MATRIX TYPE: *PCB*
 REQUIRED ANALYSES: *PCB*
 PAGE 2 OF 2

STANDARD REPORT DELIVERY
 EXPEDITED REPORT DELIVERY (surcharge)
 Date Due: _____

SAMPLE		SL NO.	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS SUBMITTED				REMARKS
DATE	TIME			AQUEOUS (WATER, SOLID OR SEMISOLID)	AIR	NONAQUEOUS LIQUID (oil, solvent, etc)	OTHER	
3/24	1010		LARC60 - 557 MS/MSD GRAB	<input checked="" type="checkbox"/>		1		ALSO MS/MSD SAMPLE
	1015		LARC60 - 558 GRAB	<input checked="" type="checkbox"/>		1		
	1020		LARC60 - 554 GRAB	<input checked="" type="checkbox"/>		1		
	1025		LARC60 - 553 GRAB	<input checked="" type="checkbox"/>		1		
	1035		LARC60 - 555 GRAB	<input checked="" type="checkbox"/>		1		
<i>✓</i>	1040		LARC60 - 556 GRAB	<input checked="" type="checkbox"/>		1		

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE: 3/21/02	TIME: 1300	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) *[Signature]* DATE: 3/28/02 TIME: 10:15
 CUSTODY INTACT: YES NO
 CUSTODY SEAL NO.:
 SL LOG NO.: 50-01998
 LABORATORY REMARKS:

000003 ORIGINAL



CASE NARRATIVE

SDG# FTS02
SL PROJECT#s S001998A

PCB's (8082) Fraction

The following samples were analyzed according to SW-846 Method 8082.

SL#	SAMPLE DESCRIPTION	MATRIX
S001998A*1	FTA-SS6	Solid
S001998A*2	FTA-SS5	Solid
S001998A*3	FTA-SS8	Solid
S001998A*4	FTA-SS7	Solid
S001998A*5	FTA-SS4	Solid
S001998A*6	FTA-SS3	Solid
S001998A*7	FTA-SS2	Solid
S001998A*8	FTA-SS1	Solid
S001998A*9	FTA-SS1D	Solid
S001998A*10	LARC60-SS1	Solid
S001998A*11	LARC60-SS1D	Solid
S001998A*12	LARC60-SS2	Solid
S001998A*13	LARC60-SS7	Solid
S001998A*14	LARC60-SS8	Solid
S001998A*15	LARC60-SS4	Solid
S001998A*16	LARC60-SS3	Solid
S001998A*17	LARC60-SS5	Solid
S001998A*18	LARC60-SS6	Solid

Samples S001998A-4 (FTA-SS7) and S001998A-13 (LARC60-SS7) were the designated matrix spike/matrix spike duplicates. A matrix spike/matrix spike duplicate performed on sample S001998A-16-RE has also been provided.

Surrogate TCMX recoveries were below quality control limits for samples S001998A-13, S001998A-14, S001998A-15, S001998A-17, and S001998A-18; however, secondary surrogate DCB recoveries were within QC limits for these samples and no further corrective action was required. Both TCMX and DCB surrogate recoveries were outside quality control limits for sample S001998A-16. This sample was re-extracted outside of technical holding time in batch 0425S. All acceptance criteria were met, and both sets of data have been provided. Surrogate recoveries outside quality control limits are denoted with the "X" data qualifier on the LIMS report.

000009

FORM 2
SOIL PEST-PCB SURROGATE RECOVERY

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL-SAV

Case No.:

SAS No.:

SDG No.: FTS02

GC Column(1): DB-608

ID: 0.53 (mm)

GC Column(2): DB-5

ID: 0.53 (mm)

	CLIENT SAMPLE NO.	S1 1 %REC #	S1 2 %REC #	S2 1 %REC #	S2 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
	=====	=====	=====	=====	=====	=====	=====	=====
01	0330N-IMB	55	40	65	58			0
02	0330N-IMBLCS	53	38	65	58			0
03	01998A-1	44	32	52	47			0
04	01998A-2	37	26*	43	39			1
05	01998A-3	40	29*	48	42			1
06	01998A-4	42	30	49	44			0
07	01998A-5	42	29*	50	46			1
08	01998A-6	43	30	52	46			0
09	01998A-7	33	24*	83	56			1
10	01998A-8	34	24*	42	34			1
11	01998A-9	32	22*	54	34			1
12	01998A-10	30	22*	41	38			1
13	01998A-11	32	22*	36	33			1
14	01998A-12	38	31	49	48			0
15	01998A-13	29*	25*	41	39			2
16	01998A-14	22*	16*	32	28*			3
17	01998A-15	27*	19*	41	39			2
18	01998A-16	11*	8*	14*	13*			4
19	01998A-17	21*	16*	34	30			2
20	01998A-13MS	42	30	52	49			0
21	01998A-13MSD	29*	24*	37	35			2
22	01998A-4MS	35	26*	42	39			1
23	01998A-4MSD	26*	22*	36	33			2
24	01998A-18	24*	17*	32	30			2
25	0425S-KMB	65	70	76	82			0
26	0425S-KMBLCS	58	65	70	76			0
27	01998A-16RE	47	46	57	59			0
28	01998A-16REM	38	39	49	51			0
29	01998A-16REM	45	48	55	58			0
30								0

ADVISORY
QC LIMITS

S1 = Tetrachloro-m-xylene # (30-150)
S2 = Decachlorobiphenyl # (30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 3
SOIL PEST-PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SAVANNAH LABORATORIES Contract:
 Lab Code: SL-SAV Case No.: SAS No.: SDG No.: FTS02
 Matrix Spike - Sample No.: 01998A-13

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Aroclor-1016	330	0.0	150	45	34-138
Aroclor-1260	330	0.0	170	52	39-138

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016	330	96	29*	43	44	34-138
Aroclor-1260	330	100	30*	54*	30	39-138

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 2 outside limits
 Spike Recovery: 2 out of 4 outside limits

COMMENTS:

SDG NO. FTS03

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

- 5102 LaRoche Avenue, Savannah, GA 31404
- 2846 Industrial Plaza Drive, Tallahassee, FL 32301
- 414 SW 12th Avenue, Deerfield Beach, FL 33442
- 900 Lakeside Drive, Mobile, AL 36693
- 6712 Benjamin Road, Suite 100, Tampa, FL 33634
- 100 Alpha Drive, Suite 110, Destrehan, LA 70047

Phone: (912) 354-7858 Fax: (912) 352-0165
 Phone: (904) 878-3994 Fax: (904) 878-9504
 Phone: (954) 421-7400 Fax: (954) 421-2584
 Phone: (334) 666-6633 Fax: (334) 666-6696
 Phone: (813) 885-7427 Fax: (813) 885-7049
 Phone: (504) 764-1100 Fax: (504) 725-1163

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE Ft. Story Remedial Investigation		PROJECT NO. 0285-783	P.O. NUMBER	MATRIX TYPE	REQUIRED ANALYSES										PAGE 1 OF 2							
PROJECT LOC. (State) VA	SAMPLER(S) NAME Shelly L Kolb		PHONE 757-873-8700	FAX 757-873-8722	NONE PEDEST AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (oil, solvent, etc)										STANDARD REPORT DELIVERY <input type="checkbox"/>							
CLIENT NAME Malcolm Pirnie, Inc.		CLIENT PROJECT MANAGER Tony Pace		EXPEDITED REPORT DELIVERY (surcharge) <input type="checkbox"/>																		
CLIENT ADDRESS (CITY, STATE, ZIP) 11832 Rock Landing Dr. Suite 400, Newport News, VA 23606				Date Due: _____																		
SAMPLE		SL NO.	SAMPLE IDENTIFICATION		NUMBER OF CONTAINERS SUBMITTED										REMARKS							
DATE	TIME																					
6/3/00	1632		FTA-SS1	✓																		
6/3/00	1632		FTA-SS10	✓																		
6/3/00	1630		FTA-SS2-MS/MSD	✓																		MS/MSD
6/3/00	1626		FTA-SS3	✓																		
6/3/00	1628		FTA-SS4	✓																		
6/3/00	1615		FTA-SS5	✓																		
6/3/00	1617		FTA-SS6	✓																		
6/3/00	1623		FTA-SS7	✓																		
6/3/00	1620		FTA-SS8	✓																		
6/3/00	1655		LAR60-SS1-MS/MSD	✓																		MS/MSD
6/3/00	1652		LAR60-SS2	✓																		
6/3/00	1652		LAR60-SS2D	✓																		
6/3/00	1658		LAR60-SS3	✓																		

RELINQUISHED BY: (SIGNATURE) <i>Shelly Kolb</i>	DATE 6/6/00	TIME 1600	RELINQUISHED BY: (SIGNATURE) <i>Shelly Kolb</i>	DATE 6/6/00	TIME 1600	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY						
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>K Comer</i>	DATE 6/7/00	TIME 10:20	CUSTODY INTACT <input type="checkbox"/> YES <input type="checkbox"/> NO	CUSTODY SEAL NO.	SL LOG NO. 50-03693	LABORATORY REMARKS:

000003 ORIGINAL

CASE NARRATIVE

SDG# FTS03
 SL PROJECT#s S003693

TCL Pesticides (8081A) Fraction

The following samples were analyzed according to SW-846 Method 8081A.

SL#	SAMPLE DESCRIPTION	MATRIX
S003693*1	FTA-SS1	Solid
S003693*2	FTA-SS1D	Solid
S003693*3	FTA-SS2	Solid
S003693*4	FTA-SS3	Solid
S003693*5	FTA-SS4	Solid
S003693*6	FTA-SS5	Solid
S003693*7	FTA-SS6	Solid
S003693*8	FTA-SS7	Solid
S003693*9	FTA-SS8	Solid
S003693*10	LARC60-SS1	Solid
S003693*11	LARC60-SS2	Solid
S003693*12	LARC60-SS2D	Solid
S003693*13	LARC60-SS3	Solid
S003693*14	LARC60-SS4	Solid
S003693*15	LARC60-SS5	Solid
S003693*16	LARC60-SS6	Solid
S003693*17	LARC60-SS7	Solid
S003693*18	LARC60-SS8	Solid

Samples S003693-3 (FTA-SS2) and S003693-10 (LARC60-SS1) were the designated matrix spike/matrix spike duplicates; and all recoveries were within advisory limits for S003693-3MS, S003693-3MSD and S003693-10MSD. Spike recoveries were above advisory limits for target compounds gamma-BHC, Heptachlor, Dieldrin, and 4,4'-DDT. Also, the %RPD for all spiking compounds were outside quality control limits for S003693-10MS and S003693-10MSD. These situations have been denoted with the "*" data qualifier on the deliverable Form 3.

Due to the abundance of target analyte 4,4'-DDT, samples S003693-4 and S003693-16 were analyzed at a primary dilution of 1:5.

In the continuing calibration verification (clock IDs 1S0627 and 1S0628) the % difference was in exceed of the maximum criteria for several compounds. Thus, the grand mean

SDG# FTS03
SL PROJECTS#s S003693
TCL Pesticides (8081A) FRACTION
PAGE: 2

exception rule was applied. This rule is described in SW-846 and states that when one or more compounds fail to meet acceptance criteria, the average response factor from the initial calibration may be used for quantitation if the average % difference of all compounds in the continuing calibration is less than or equal to 15 %.

STL SAVANNAH

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: SGSECD2.i Injection Date: 28-JUN-2000 05:53
 Lab File ID: sjn27033.d Init. Cal. Date(s): 24-MAY-2000 21-JUN-2000
 Analysis Type: Init. Cal. Times: 18:35 06:59
 Lab Sample ID: PISMA-04 Quant Type: ESTD
 Method: /chem/SG/SGSECD2.i/2S0627.b/8081chan2.m

COMPOUND	RRF / AMOUNT	RF10	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
\$ 1 Tetrachloro-m-xylene	687447222	686106275	0.010	0.2	15.0	Averaged	
8 gamma-BHC (Lindane)	709964035	698926250	0.010	1.6	15.0	Averaged	
11 Heptachlor	648453875	590683400	0.010	8.9	15.0	Averaged	
13 Heptachlor epoxide	634062045	601017700	0.010	5.2	15.0	Averaged	
21 Endosulfan I	628299155	589981000	0.010	6.1	15.0	Averaged	
22 Dieldrin	625327112	610561425	0.010	2.4	15.0	Averaged	
29 Endosulfan II	543095582	508708900	0.010	6.3	15.0	Averaged	
30 4,4'-DDT	389315638	229845475	0.010	41.0	15.0	Averaged	<-
32 Endrin aldehyde	395708682	357696000	0.010	9.6	15.0	Averaged	
33 Methoxychlor	187196325	137397225	0.010	26.6	15.0	Averaged	<-
\$ 36 Decachlorobiphenyl	611029658	583017875	0.010	4.6	15.0	Averaged	

STL SAVANNAH

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: SGSECD2.i Injection Date: 28-JUN-2000 16:58
 Lab File ID: sjn28006.d Init. Cal. Date(s): 24-MAY-2000 21-JUN-2000
 Analysis Type: Init. Cal. Times: 18:35 06:59
 Lab Sample ID: PISMA-04 Quant Type: ESTD
 Method: /chem/SG/SGSECD2.i/1S0628.b/8081chan2.m

COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
\$ 1 Tetrachloro-m-xylene	687447222	646699335	0.010	5.9	15.0	Averaged
8 gamma-BHC (Lindane)	709964035	676353918	0.010	4.7	15.0	Averaged
11 Heptachlor	648453875	574456745	0.010	11.4	15.0	Averaged
13 Heptachlor epoxide	634062045	579508878	0.010	8.6	15.0	Averaged
21 Endosulfan I	628299155	570636765	0.010	9.2	15.0	Averaged
22 Dieldrin	625327112	594327917	0.010	5.0	15.0	Averaged
29 Endosulfan II	543095582	498510484	0.010	8.2	15.0	Averaged
30 4,4'-DDT	389315638	282172501	0.010	27.5	15.0	Averaged
32 Endrin aldehyde	395708682	354673756	0.010	10.4	15.0	Averaged
33 Methoxychlor	187196325	162931932	0.010	13.0	15.0	Averaged
\$ 36 Decachlorobiphenyl	611029658	581734715	0.010	4.8	15.0	Averaged

STL SAVANNAH

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: SGSECD2.i Injection Date: 29-JUN-2000 01:55
 Lab File ID: sjn28027.d Init. Cal. Date(s): 24-MAY-2000 21-JUN-2000
 Analysis Type: Init. Cal. Times: 18:35 06:59
 Lab Sample ID: PISMA-04 Quant Type: ESTD
 Method: /chem/SG/SGSECD2.i/2S0628.b/8081chan2.m

COMPOUND	RRF / AMOUNT	RF10	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
\$ 1 Tetrachloro-m-xylene	687447222	642635572	0.010	6.5	15.0	Averaged	
8 gamma-BHC (Lindane)	709964035	669486120	0.010	5.7	15.0	Averaged	
11 Heptachlor	648453875	542739213	0.010	16.3	15.0	Averaged	<-
13 Heptachlor epoxide	634062045	582966573	0.010	8.1	15.0	Averaged	
21 Endosulfan I	628299155	575417615	0.010	8.4	15.0	Averaged	
22 Dieldrin	625327112	593452666	0.010	5.1	15.0	Averaged	
29 Endosulfan II	543095582	496403054	0.010	8.6	15.0	Averaged	
30 4,4'-DDT	389315638	194480254	0.010	50.0	15.0	Averaged	<-
32 Endrin aldehyde	395708682	346773346	0.010	12.4	15.0	Averaged	
33 Methoxychlor	187196325	121968196	0.010	34.8	15.0	Averaged	<-
\$ 36 Decachlorobiphenyl	611029658	581470802	0.010	4.8	15.0	Averaged	

10A
 PESTICIDE IDENTIFICATION SUMMARY
 FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03693-1

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL-SAV

Case No.:

SAS No.:

SDG No.: FTS03

Lab Sample ID: FTA-SS1

Date(s) Analyzed: 06/27/00 06/27/00

Instrument ID (1): SGSECD1

Instrument ID (2): SGSECD2

GC Column(1): RTX CLP PEST ID: 0.53 (mm) GC Column(2): RTX-CLP2 ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	9.59	9.52	9.66	0.33	
	2	10.97	10.90	11.04	0.37	12.1
4,4'-DDT	1	10.87	10.80	10.94	0.70	
	2	12.23	12.16	12.30	0.90	28.6
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

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10A
 PESTICIDE IDENTIFICATION SUMMARY
 FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03693-4

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL-SAV

Case No.:

SAS No.:

SDG No.: FTS03

Lab Sample ID: FTA-SS3

Date(s) Analyzed: 06/27/00 06/27/00

Instrument ID (1): SGSECD1

Instrument ID (2): SGSECD2

GC Column(1): RTX CLP PEST ID: 0.53 (mm) GC Column(2): RTX-CLP2 ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Heptachlor epoxide	1	9.07	8.99	9.13	0.94	
	2	10.23	10.17	10.31	1.7	80.8
4,4'-DDE	1	9.59	9.52	9.66	7.9	
	2	10.97	10.90	11.04	9.0	13.9
4,4'-DDT	1	10.87	10.80	10.94	24	
	2	12.23	12.16	12.30	24	0.0
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

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10A
 PESTICIDE IDENTIFICATION SUMMARY
 FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03693-7

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL-SAV

Case No.:

SAS No.:

SDG No.: FTS03

Lab Sample ID: FTA-SS6

Date(s) Analyzed: 06/27/00 06/27/00

Instrument ID (1): SGSECD1

Instrument ID (2): SGSECD2

GC Column(1): RTX CLP PEST ID: 0.53(mm) GC Column(2): RTX-CLP2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	9.59	9.52	9.66	0.56	
	2	10.97	10.90	11.04	0.58	3.6
4,4'-DDT	1	10.87	10.80	10.94	1.7	
	2	12.23	12.16	12.30	1.8	5.9
alpha-Chlordane	1	9.44	9.39	9.53	0.99	
	2	10.75	10.68	10.82	0.36	175.0
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

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10A
 PESTICIDE IDENTIFICATION SUMMARY
 FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03693-8

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL-SAV

Case No.:

SAS No.:

SDG No.: FTS03

Lab Sample ID: FTA-SS7

Date(s) Analyzed: 06/27/00 06/27/00

Instrument ID (1): SGSECD1

Instrument ID (2): SGSECD2

GC Column(1): RTX CLP PEST ID: 0.53(mm) GC Column(2): RTX-CLP2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	9.58	9.52	9.66	2.6	
	2	10.97	10.90	11.04	2.4	8.3
4,4'-DDT	1	10.87	10.80	10.94	7.8	
	2	12.23	12.16	12.30	7.3	6.8
gamma-Chlordane	1	9.26	9.19	9.33	0.84	
	2	10.53	10.46	10.60	0.61	37.7
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

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10A
 PESTICIDE IDENTIFICATION SUMMARY
 FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03693-9

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL-SAV

Case No.:

SAS No.:

SDG No.: FTS03

Lab Sample ID: FTA-SS8

Date(s) Analyzed: 06/27/00 06/27/00

Instrument ID (1): SGSECD1

Instrument ID (2): SGSECD2

GC Column(1): RTX CLP PEST ID: 0.53 (mm) GC Column(2): RTX-CLP2 ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	9.59	9.52	9.66	0.91	
	2	10.97	10.90	11.04	0.85	7.0
4,4'-DDT	1	10.87	10.80	10.94	2.8	
	2	12.23	12.16	12.30	2.5	12.0
gamma-Chlordane	1	9.26	9.19	9.33	0.34	
	2	10.53	10.46	10.60	0.45	32.4
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

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10A
 PESTICIDE IDENTIFICATION SUMMARY
 FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03693-11

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL-SAV

Case No.:

SAS No.:

SDG No.: FTS03

Lab Sample ID: LARC60-SS2

Date(s) Analyzed: 06/28/00 06/28/00

Instrument ID (1): SGSECD1

Instrument ID (2): SGSECD2

GC Column(1): RTX CLP PEST ID: 0.53(mm) GC Column(2): RTX-CLP2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
beta-BHC	1	7.08	6.99	7.09	1.6	
	2	8.10	8.07	8.17	1.1	45.4
4,4'-DDT	1	10.88	10.80	10.94	0.55	
	2	12.23	12.16	12.30	0.42	31.0
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

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10A
 PESTICIDE IDENTIFICATION SUMMARY
 FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03693-13

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL-SAV

Case No.:

SAS No.:

SDG No.: FTS03

Lab Sample ID: LARC60-SS3

Date(s) Analyzed: 06/28/00 06/28/00

Instrument ID (1): SGSECD1

Instrument ID (2): SGSECD2

GC Column(1): RTX CLP PEST ID: 0.53(mm) GC Column(2): RTX-CLP2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	9.58	9.52	9.66	0.28	
	2	10.97	10.90	11.04	0.30	7.1
4,4'-DDD	1	10.47	10.40	10.54	1.6	
	2	11.79	11.72	11.86	1.6	0.0
4,4'-DDT	1	10.87	10.80	10.94	1.8	
	2	12.23	12.16	12.30	1.7	5.9
alpha-Chlordane	1	9.46	9.39	9.53	1.0	
	2	10.75	10.68	10.82	0.51	96.1
gamma-Chlordane	1	9.26	9.19	9.33	0.63	
	2	10.54	10.46	10.60	0.46	37.0
	1					
	2					
	1					
	2					
	1					
	2					

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10A
 PESTICIDE IDENTIFICATION SUMMARY
 FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03693-16

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL-SAV

Case No.:

SAS No.:

SDG No.: FTS03

Lab Sample ID: LARC60-SS6

Date(s) Analyzed: 06/28/00 06/28/00

Instrument ID (1): SGSECD1

Instrument ID (2): SGSECD2

GC Column(1): RTX CLP PEST ID: 0.53(mm) GC Column(2): RTX-CLP2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	9.59	9.52	9.66	13	
	2	10.97	10.90	11.04	12	8.3
4,4'-DDD	1	10.47	10.40	10.54	3.3	
	2	11.79	11.72	11.86	4.3	30.3
4,4'-DDT	1	10.87	10.80	10.94	39	
	2	12.23	12.16	12.30	35	11.4
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

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10A
 PESTICIDE IDENTIFICATION SUMMARY
 FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03693-17

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL-SAV

Case No.:

SAS No.:

SDG No.: FTS03

Lab Sample ID: LARC60-SS7

Date(s) Analyzed: 06/28/00 06/28/00

Instrument ID (1): SGSECD1

Instrument ID (2): SGSECD2

GC Column(1): RTX CLP PEST ID: 0.53(mm) GC Column(2): RTX-CLP2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Dieldrin	1	10.02	9.96	10.10	1.0	
	2	11.23	11.17	11.31	0.47	112.8
4,4'-DDE	1	9.58	9.52	9.66	1.0	
	2	10.97	10.90	11.04	0.82	22.0
4,4'-DDD	1	10.48	10.40	10.54	1.9	
	2	11.79	11.72	11.86	2.1	10.5
4,4'-DDT	1	10.87	10.80	10.94	5.2	
	2	12.23	12.16	12.30	7.5	44.2
gamma-Chlordane	1	9.26	9.19	9.33	0.49	
	2	10.53	10.46	10.60	0.37	32.4
	1					
	2					
	1					
	2					
	1					
	2					

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FORM 3
SOIL PEST-PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SAVANNAH LABORATORIES

Contract:

Lab Code: SL-SAV

Case No.:

SAS No.:

SDG No.: FTS03

Matrix Spike - Sample No.: 03693-10

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	6.7	0.0	9.4	140*	12-138
Heptachlor	6.7	0.0	10	149*	17-138
Aldrin	6.7	0.0	7.4	110	10-144
Dieldrin	17	0.0	26	153*	28-137
Endrin	17	0.0	22	129	33-149
4,4'-DDT	17	0.0	28	165*	29-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD\$#	QC LIMITS RPD	REC.
gamma-BHC (Lindane)	6.7	5.5	82	52*	37	12-138
Heptachlor	6.7	6.4	96	44*	38	17-138
Aldrin	6.7	4.5	67	49*	38	10-144
Dieldrin	17	15	88	54*	30	28-137
Endrin	17	13	76	51*	32	33-149
4,4'-DDT	17	16	94	54*	26	29-134

\$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 6 out of 6 outside limits

Spike Recovery: 4 out of 12 outside limits

COMMENTS:
