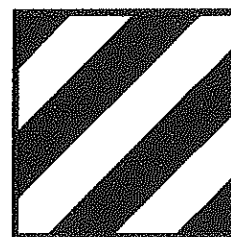


FORSUM

Final Interim Removal Action Report



3d Inf Div (Mech)

Former Fire Training Area
At WAAF
(SWMU 13)
at
Fort Stewart, Georgia

April 2002

Prepared for:
ADVANCED INFRASTRUCTURE MANAGEMENT TECHNOLOGIES
Oak Ridge, Tennessee 37831
Managed by
BWXTY-12, L.L.C.
For the
U.S. DEPARTMENT OF ENERGY
under contract DE-AC05-00OR22800

Prepared by:
Earth Tech, Inc.
117A Broadway Avenue
Oak Ridge, Tennessee 37830

**FORMER FIRE TRAINING AREA
AT WRIGHT ARMY AIRFIELD
(SWMU 13)
at
FORT STEWART, GEORGIA**

INTERIM REMOVAL ACTION

Prepared for:
Advanced Infrastructure Management Technologies
Oak Ridge, Tennessee 37831
managed by
BWXT Y-12, L.L.C.
for the
U.S. DEPARTMENT OF ENERGY
under contract DE-AC05-00OR22800

Prepared by:
Earth Tech, Inc.
117A Broadway Avenue
Oak Ridge, Tennessee 37830

April 2002

TABLE OF CONTENTS
Interim Removal Action Report

1. INTRODUCTION.....	1
2. SITE LOCATION AND HISTORY	1
3. SOIL REMOVAL ACTIVITIES	2
4. CONFIRMATION SAMPLING.....	4
5. SAMPLE RESULTS.....	6
6. CONCLUSIONS AND RECOMMENDATIONS	7
7. REFERENCES	7

Appendix A: PHOTODOCUMENTATION

Appendix B: DISPOSAL TICKET

Appendix C: CONFIRMATORY ANALYTICAL DATA

LIST OF FIGURES

3-1 Sample Location Map	3
-------------------------------	---

LIST OF TABLES

Table 4.1 Confirmatory Sampling Information	4
Table 4.2 Summary of Analytes Detected in Soil.....	5

WRIGHT ARMY AIRFIELD FORMER FIRE TRAINING AREA (SWMU 13) INTERIM REMOVAL ACTION

1. INTRODUCTION

This report documents the Interim Removal Action (IRA) conducted by Earth Tech, Inc. (Earth Tech) from December 18, 2001 to February 15, 2002 at Fort Stewart's Wright Army Airfield (WAAF) Former Fire Training Area: Solid Waste Management Unit (SWMU) 13. The IRA included the removal of an approximate 8-inch concrete pad that was an estimated 20 feet by 8 feet area, removal of approximately 337 tons of soil, and removal of a monitoring well associated with investigations and remedial actions at SWMU 13 at Fort Stewart, Georgia. Photodocumentation of site activities is located in Appendix A of this report.

2. SITE LOCATION AND HISTORY

Fort Stewart is located approximately 40 miles west-southwest of Savannah, Georgia, in portions of Liberty, Long, Bryan, Tattnall, and Evans counties and covers approximately 327,768 acres. The Fire Training Area was located on the western edge of the WAAF runway system, which is in the southern portion of the Fort Stewart Military Reservation. The Fire Training Area consisted of a 5,000-square foot concrete pad with an integral berm that was used by the airfield's firefighting personnel for training. An oil/water separator sump, underground piping, and an aboveground fuel (FP-4) storage tank adjoined the main concrete pad and combined to make up the entire Fire Training Area. All of these structures and appurtenances were removed during an Interim Measures (IM) conducted in 1997 by CAPE Environmental. Also as part of the IM, the top 4 feet of contaminated soil were excavated, removed, and replaced with clean soil. The IM was summarized in the Final Interim Measures Report for SWMU 13, dated May 1998, submitted to GEPA in August 1998 (SAIC, 2001).

3. SOIL REMOVAL ACTIVITIES

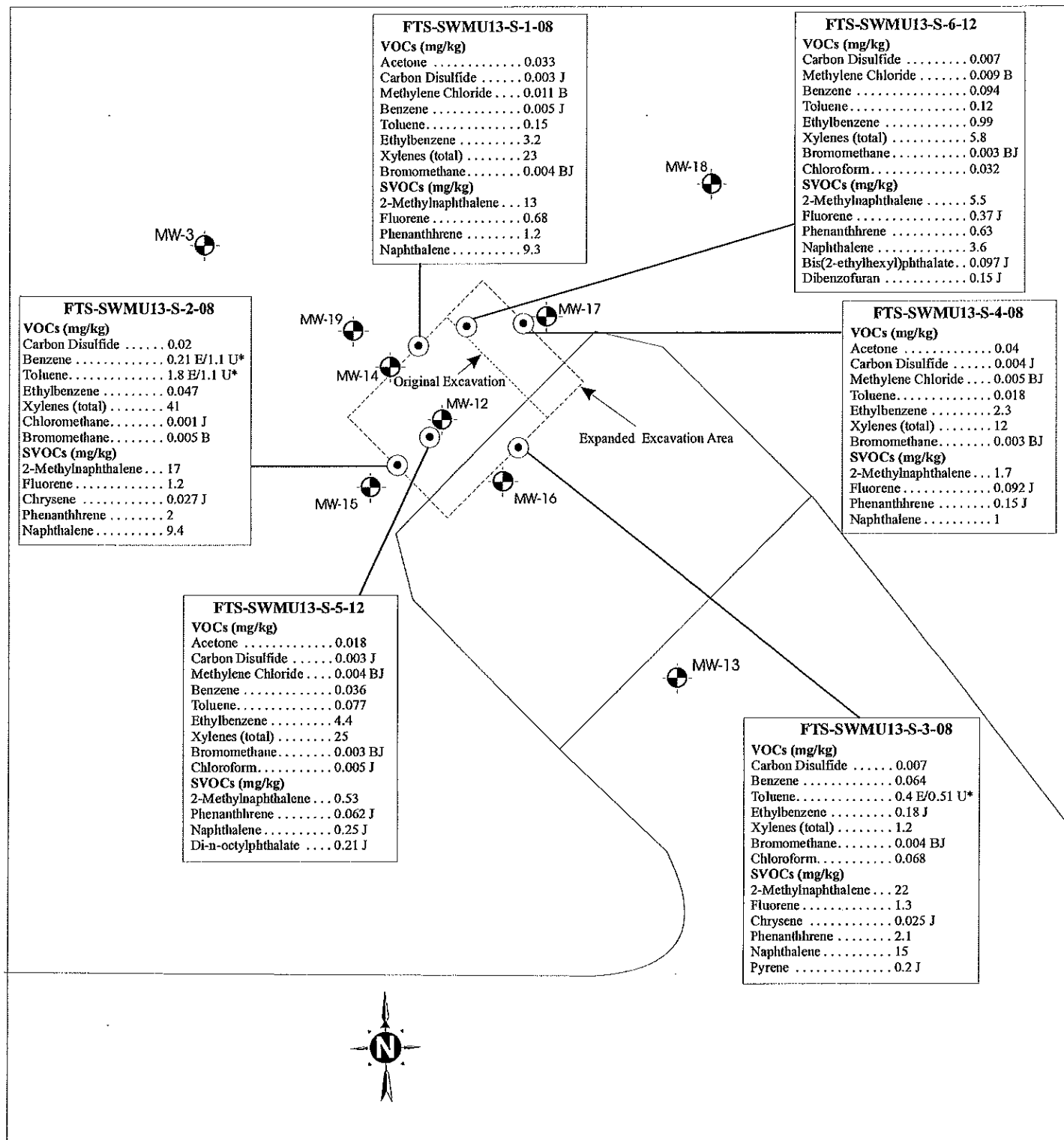
After the concrete pad was removed, an excavation area of approximately 20 feet by 27 feet was created. The site was undercut to a depth of 12 feet below ground surface (bgs). All excavated concrete was disposed of at the Fort Stewart Landfill as construction waste. All excavated soil (337.47 tons) was disposed of at Soil Safe Technologies, Inc. A copy of the disposal ticket for the excavated soil is located in Appendix B of this report.

During excavation activities, groundwater monitoring well MW-12 was removed and MW-14 was damaged. The wells were originally installed to conduct previous and on-going investigation and remedial activities at the site.

During excavation activities, portions of soil were collected for field screening. Soil vapors were scanned for volatile organic compounds (VOCs) with a photoionization detector (PID). Calibration was performed prior to field sampling. A PID reading of the soil was collected by filling a clean glass jar one-half full with soil and then capped with a Teflon® coated lid. The sample was allowed to volatilize for approximately 15 minutes. The lid was then partially removed and a piece of tubing attached to the PID was inserted into the jar. An air sample from the headspace was analyzed for total VOCs. Due to consistently high results for the screening samples, the decision was made to discontinue excavation activities.

Confirmatory samples were taken following excavation activities. All samples were analyzed for volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs). Six soil samples were collected; four from the side walls (FTS-SWMU13-S-1-08, FTS-SWMU13-S-2-08, FTS-SWMU13-S-3-08, and FTS-SWMU13-S-4-08) and two from the floor (FTS-SWMU13-S-5-12 and FTS-SWMU13-S-6-12) of the excavation. The sample locations are indicated on the sample location map (Figure 3-1). Analytical data are presented in Section 4.0.

The site was backfilled upon completion of overexcavation activities. Approximately 342 cubic yards of soil and 68 tons of crush and run gravel were used to backfill the excavation. The entire area was overseeded.



EXPLANATION

1 INCH = 20 FEET

0 10 20 Feet

Monitoring Well Locations

Soil Sample Location

Structures are approximate

Site was not surveyed

Wells located within the extent of the excavation were removed

Qualifiers

U = analyte not detected above quantitation limit

J = estimated value below the quantitation limit

B = analyte found in associated blank, possible blank contamination

E = concentration exceeded calibration range of the instrument for the specific analysis

* = initial run exceeded calibration range; the dilution was non-detect at an elevated detection limit

Excavation Area
WAAF (SWMU 13)
Fort Stewart, Georgia

Figure 3-1

4. CONFIRMATION SAMPLING

Samples for SVOCs were collected and placed directly into the appropriate sampling containers. Samples for VOCs were collected using the EnCoreTM sampler.

Information pertaining to the soil sampling is presented in Table 4-1. The table includes sample name, sample date, and sample collection depth.

Table 4.1 Confirmatory Sampling Information

Confirmatory Sample Name	Confirmatory Sample Date	Confirmatory Sample Collection Depth (feet bgs)
FTS-SWMU13-S-1-08	January 9, 2002	8
FTS-SWMU13-S-2-08	January 9, 2002	8
FTS-SWMU13-S-3-08	January 9, 2002	8
FTS-SWMU13-S-4-08	January 9, 2002	8
FTS-SWMU13-S-5-12	January 9, 2002	12
FTS-SWMU13-S-6-12	January 9, 2002	12

The detected results for the six soil confirmation samples are summarized in Table 4-2. In addition, Table 4-2 compares the detected sample results to EPA Region III-Residential and EPA Region III-Industrial Risk-Based Screening Levels, and EPA Soil Screening Levels for the transfer from soil to groundwater using a dilution attenuation factor (DAF) of 20 and 1. The complete data set is included in Appendix C.

Table 4.2 Summary of Analytes Detected in Soil

Analyte	EPA Region III Residential ¹ (mg/kg)	EPA Region III Industrial ¹ (mg/kg)	EPA Soil Screening Levels ² DAF 20/DAF 1 (mg/kg)	FTS-SWMU13-S-1-08	FTS-SWMU13-S-2-08	FTS-SWMU13-S-3-08	FTS-SWMU13-S-4-08	FTS-SWMU13-S-5-12	FTS-SWMU13-S-6-12
VOCs (mg/kg)									
Acetone	782	20,400	16/0.8	0.033			0.04	0.018	
Carbon Disulfide	782	20,400	32/2	0.003 J	0.02	0.007	0.004 J	0.003 J	0.007
Methylene Chloride				0.011 B			0.005 BJ	0.004 BJ	0.009 B
Benzene	11.6	104	0.03/0.002	0.005 J	0.21 E/1.1 U*	0.064		0.036	0.094
Toluene	1560	40,900	12/0.6	0.15	1.8 E/1.1 U*	0.4 E/0.510 U*	0.018	0.077	0.12
Ethylbenzene	782	20,400	13/0.7	3.2	0.047	0.18 J	2.3	4.4	0.99
Xylene (total)	15,600	40,900	210/10	23	41	1.2	12	25	5.8
Chloromethane					0.001 J				
Bromomethane				0.004 BJ	0.005 B	0.004 BJ	0.003 BJ	0.003 BJ	0.003 BJ
Chloroform						0.068		0.005 J	0.032
SVOCs (mg/kg)									
2-Methylnaphthalene	156	4,090		13	17	22	1.7	0.53	5.5
Fluorene	313	8,180	560/280	0.68	1.2	1.3	0.092 J		0.37 J
Chrysene	87.5	784			0.027 J	0.025 J			
Phenanthrene				1.2	2	2.1	0.15 J	0.062 J	0.63
Naphthalene	156	4,090	84/4	9.3	9.4	15	1	0.25 J	3.6
Pyrene	235	6,130				0.2 J			
Bis(2-ethylhexyl)phthalate	45.6	409							0.097 J
Di-n-octylphthalate								0.21 J	
Dibenzofuran									0.15 J

Notes

Only detections above quantitation limits are reported.

Bold indicates concentrations above referenced screening criteria.

¹ EPA Region III Risk-Based Screening Levels, HI=0.1

² Soil Screening Levels for the transfer from soil to groundwater.

* Initial run exceeded calibration range; the dilution was non-detect at an elevated detection limit.

Qualifiers

U = analyte not detected above the quantitation limit

J = estimated value below the quantitation limit

B = analyte found in associated blank, possible blank contamination

E = concentrations exceeded calibration range of the instrument for the specific analysis

5. SAMPLE RESULTS

The confirmatory samples collected after excavation activities indicate no contamination present above the risk-based screening levels for all six samples. The soil screening levels for the transfer from soil to groundwater were exceeded in all samples.

Sample FTS-SWMU13-S-1-08 was taken from the northwest wall of the excavation. The sample contained benzene (0.005 mg/kg), ethylbenzene (3.2 mg/kg), total xylenes (23 mg/kg), and naphthalene (9.3 mg/kg) above soil screening levels for the transfer from soil to groundwater (DAF=1) of 0.002 mg/kg, 0.7 mg/kg, 10 mg/kg, and 4 mg/kg, respectively.

Sample FTS-SWMU13-S-2-08 was taken from the southwest wall of the excavation. The sample contained benzene that exceeded the calibration range at 0.21 mg/kg, but was below the detection limit of 1.1 mg/kg in the diluted sample. These concentrations are above the soil screening level for the transfer from soil to groundwater (DAF=20) of 0.03 mg/kg. Toluene was detected at a concentration that exceeded the calibration range at 1.8 mg/kg, but was below the detection limit of 1.1 mg/kg in the diluted sample. These concentrations are above the soil screening level for the transfer from soil to groundwater (DAF=1) of 0.6 mg/kg. The sample also contained total xylenes (41 mg/kg) and naphthalene (9.4 mg/kg) above soil screening levels for the transfer from soil to groundwater (DAF=1) of 10 mg/kg and 4 mg/kg, respectively.

Sample FTS-SWMU13-S-3-08 was taken from the southeast wall of the excavation. The sample contained benzene (0.064 mg/kg) above soil screening levels for the transfer from soil to groundwater (DAF=20) of 0.03 mg/kg. The sample also contained naphthalene (15 mg/kg) above soil screening levels for the transfer from soil to groundwater (DAF=1) of 4 mg/kg.

Sample FTS-SWMU13-S-4-08 was taken from the northeast wall of the excavation. The sample contained ethylbenzene (2.3 mg/kg) and total xylenes (12 mg/kg) above soil screening levels for the transfer from soil to groundwater (DAF=1) of 0.7 mg/kg and 10 mg/kg, respectively.

Sample FTS-SWMU13-S-5-12 was taken from the southern portion of the excavation floor. The sample contained benzene (0.036 mg/kg) above soil screening levels for the transfer from soil to groundwater (DAF=20) of 0.03 mg/kg. The sample also contained ethylbenzene (4.4 mg/kg) and total xylenes (25 mg/kg) above soil screening levels for the transfer from soil to groundwater (DAF=1) of 0.7 mg/kg and 10 mg/kg, respectively.

Sample FTS-SWMU13-S-6-12 was taken from the northern portion of the excavation floor. The sample contained benzene (0.094 mg/kg) above soil screening levels for the transfer from soil to groundwater (DAF=20) of 0.03 mg/kg. The sample also contained ethylbenzene (0.99 mg/kg) above soil screening levels for the transfer from soil to groundwater (DAF=1) of 0.7 mg/kg.

6. CONCLUSIONS AND RECOMMENDATIONS

The confirmatory samples collected after excavation activities indicate no significant impact to human health. The data does indicate that a potential impact to the groundwater may remain in the SWMU 13 area. Due to on-going corrective actions at the facility in accordance with the GA EPD approved Corrective Action Plan, no further conclusions or recommendations are made in this report. Site-specific recommendations will be addressed in the upcoming Corrective Action Progress Report.

7. REFERENCES

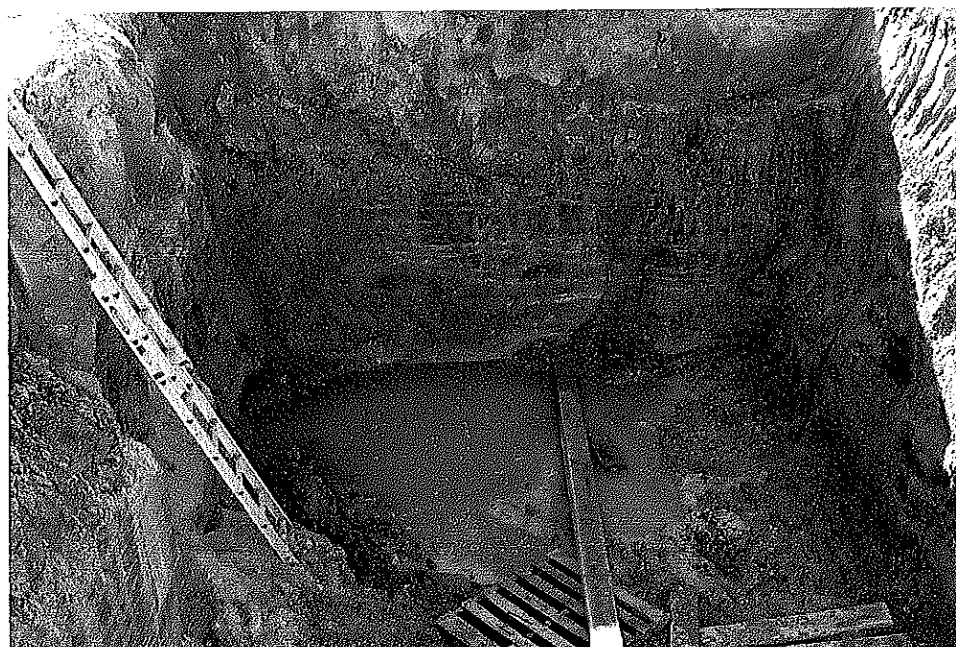
Science Applications International Corporation (SAIC), 2001. *Corrective Action Plan for the Former Fire Training Area (FTA) at Wright Army Airfield (Solid Waste Management Unit 13) at Fort Stewart Military Reservation, Fort Stewart, Georgia.*

APPENDIX A

PHOTODOCUMENTATION



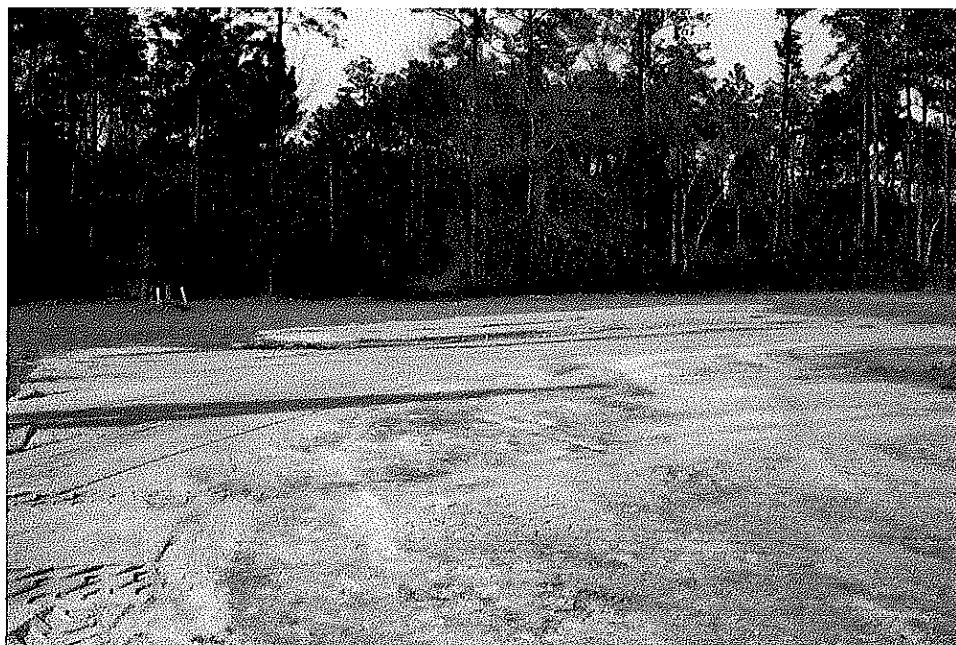
WAAF SWMU 13: Part of the excavation area at the Former Fire Training Area.



WAAF SWMU 13: Part of excavation area at the Former Fire Training Area.



WAAF SWMU 13: Stockpiled soil after removal.



WAAF SWMU 13: Former Fire Training Area after backfilling.

APPENDIX B

SOIL DISPOSAL TICKET

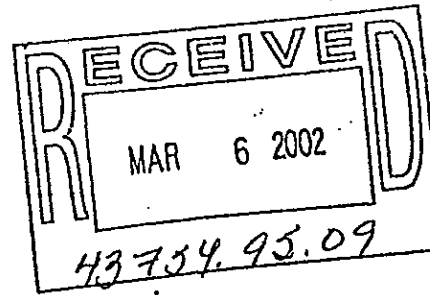


Soil Safe Technologies
Incorporated

P.O. Box 60055
Savannah, GA 31420

Ph: 912-925-6800 Fax: 912-925-0308
pmssisa@worldnet.att.net

Customer ID U00005



3/14/02
processed
Spring
Reel

EARTH TECH
117 A BROADWAY AVE.
OAKRIDGE, TENNESSE, 37830

DATE
2/26/02

TERMS
Net 7

SHIP/JOB-DATE
2/26/02

PURCHASE ORDER

SSTI PROJECT
NUMBER 437548509

UNITS 1	ITEM DESCRIPTION	PROJECT #
---------	------------------	-----------

437-54-85-09

FORT STEWART JOB SITE ON 2/21/02

337.47 TONS OF SOIL

THANK YOU AND HAVE A NICE DAY

APPENDIX C
CONFIRMATORY ANALYTICAL DATA



Chain of Custody Record

Lab job no.

Method of Shipment Fed-Ex

Date 1/9/02

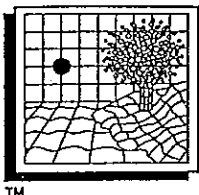
Page 1 of 1

Shipments No. _____
Airbill No. 111
Cooler No. _____
Project Manager Sean McKee
Telephone No. 865-483-9404
Fax No. 865-481-3034
Sampler: (Signature) [Signature]

Analysis Required		Remarks
No. of Containers	Filtered	
4	✓	3.72
4	✓	48 hr TAT
4	✓	Today
4	✓	Per
4	✓	Sean McKee
4	✓	
4	✓	
4	✓	
8	✓	

Field Sample Number	Location/Depth	Date	Time	Sample Type	Type/Size of Container	Preservation	
						Temp.	Chemical
F-SWMM413-S-1-08	8'	1/9/02	1200	S	8oz (3) Encore	N/A	N/A
F-SWMM413-S-2-08	8'	1/9/02	1215	S	8oz (3) Encore	N/A	N/A
F-SWMM413-S-3-08	8'	1/9/02	1230	S	8oz (3) Encore	N/A	N/A
F-SWMM413-S-4-08	8'	1/9/02	1245	S	8oz (3) Encore	N/A	N/A
F-SWMM413-S-5-08	12'	1/9/02	1345	S	8oz (3) Encore	N/A	N/A
F-SWMM413-S-6-12	12'	1/9/02	1400	S	8oz (3) Encore	N/A	N/A
F-SWMM413-S-1-08	8'	1/9/02	1205	S	28oz (6) Encore	N/A	N/A
MS/MSD							

Relinquished by: Signature <u>[Signature]</u> Printed <u>Frank Colanise</u> Company <u>Earth Tech</u> Reason <u>Ship to Lab</u>	Received by: Signature <u>[Signature]</u> Printed <u>Sean McKee</u> Company <u>SWCO</u>	Date 1/9/02 Time 1800	Date 1/9/02 Time 8:30
Relinquished by: Signature _____ Printed _____ Company _____ Reason _____	Received by: Signature _____ Printed _____ Company _____ Reason _____	Date _____ Time _____	Date _____ Time _____
Comments: _____ _____ _____			



Southwest Laboratory of Oklahoma, Inc.

Organic Qualifier Flags

U	Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample; the value must also be adjusted for percent moisture. For example, if the sample has a 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to: $\frac{(330 \text{ U})}{D} \times df \text{ where } D = \frac{100 - \% \text{ moisture}}{100} \text{ and } df = \text{dilution factor}$ At 24% moisture, $D = \frac{100 - 24}{100} = 0.76$ $\frac{(330 \text{ U})}{0.76} \times 10 = 4300 \quad \text{U rounded to the appropriate number of significant figures}$
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero. For example, if the sample quantitation limit is 10 $\mu\text{g/L}$, but a concentration of 3 $\mu\text{g/L}$ is calculated, report it as 3 J. The sample quantitation limit must be adjusted for both dilution and percent moisture as discussed for the U flag; so that if a sample with 24% moisture and a 1 to 10 dilution factor has a calculated concentration of 300 $\mu\text{g/Kg}$ and a sample quantitation limit of 430 $\mu\text{g/Kg}$, report the concentration as 300 J on Form I.
N	Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon the N code is not used.
P	This flag is used for pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is reported on Form I and flagged with a "P".
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS. Single component pesticides $\geq 10 \text{ ng}/\mu\text{l}$ in the final extract shall be confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified TCL compound.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than full scale, the sample or extract must be diluted and reanalyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate Forms I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is reanalyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag.
A	This flag indicates that a TIC is suspected aldol-condensation product.
X	Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such descriptions attached to the Sample Data Summary Package and the Case Narrative. If more than one is required, use "Y" and "Z", as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags, as needed. For instance, the "X" flag might combine the "A", "B", and "D" flags for some sample.

1700 W. Albany Broken Arrow, OK 74012-1421 Office: 918-251-2858 FAX: 918-251-2599

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-1-08

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.01A

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N49750.D

Level: (low/med) LOW

Date Received: 01/10/02

% Moisture: not dec. 11

Date Analyzed: 01/14/02

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
			Q
74-87-3	Chloromethane	6	U
75-01-4	Vinyl Chloride	6	U
74-83-9	Bromomethane	4	BJ
75-00-3	Chloroethane	6	U
75-35-4	1,1-Dichloroethene	6	U
67-64-1	Acetone	33	
75-15-0	Carbon Disulfide	3	J
75-09-2	Methylene Chloride	11	B
75-34-3	1,1-Dichloroethane	6	U
108-05-4	Vinyl Acetate	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
78-93-3	2-Butanone	6	U
67-66-3	Chloroform	6	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
71-43-2	Benzene	5	J
107-06-2	1,2-Dichloroethane	6	U
79-01-6	Trichloroethene	6	U
78-87-5	1,2-Dichloropropane	6	U
75-27-4	Bromodichloromethane	6	U
110-75-8	2-Chloroethyl vinyl ether	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
108-10-1	4-Methyl-2-Pentanone	6	U
108-88-3	Toluene	150	
10061-02-6	trans-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U
127-18-4	Tetrachloroethene	6	U
591-78-6	2-Hexanone	6	U
124-48-1	Dibromochloromethane	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	3300	E
1330-20-7	Xylene (total)	14000	E
100-42-5	Styrene	6	U
75-25-2	Bromoform	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-1-08DL

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.01DL

Sample wt/vol: 4.9 (g/mL) G

Lab File ID: L49008.D

Level: (low/med) MED

Date Received: 01/10/02

% Moisture: not dec. 11

Date Analyzed: 01/16/02

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100 (uL)

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

74-87-3-----	Chloromethane	570	U
75-01-4-----	Vinyl Chloride	570	U
74-83-9-----	Bromomethane	570	U
75-00-3-----	Chloroethane	570	U
75-35-4-----	1,1-Dichloroethene	570	U
67-64-1-----	Acetone	570	U
75-15-0-----	Carbon Disulfide	570	U
75-09-2-----	Methylene Chloride	570	U
75-34-3-----	1,1-Dichloroethane	570	U
108-05-4-----	Vinyl Acetate	570	U
540-59-0-----	1,2-Dichloroethene (total)	570	U
78-93-3-----	2-Butanone	570	U
67-66-3-----	Chloroform	570	U
71-55-6-----	1,1,1-Trichloroethane	570	U
56-23-5-----	Carbon Tetrachloride	570	U
71-43-2-----	Benzene	570	U
107-06-2-----	1,2-Dichloroethane	570	U
79-01-6-----	Trichloroethene	570	U
78-87-5-----	1,2-Dichloropropane	570	U
75-27-4-----	Bromodichloromethane	570	U
110-75-8-----	2-Chloroethyl vinyl ether	570	U
10061-01-5----	cis-1,3-Dichloropropene	570	U
108-10-1-----	4-Methyl-2-Pentanone	570	U
108-88-3-----	Toluene	570	U
10061-02-6----	trans-1,3-Dichloropropene	570	U
79-00-5-----	1,1,2-Trichloroethane	570	U
127-18-4-----	Tetrachloroethene	570	U
591-78-6-----	2-Hexanone	570	U
124-48-1-----	Dibromochloromethane	570	U
108-90-7-----	Chlorobenzene	570	U
100-41-4-----	Ethylbenzene	3200	D
1330-20-7----	Xylene (total)	23000	D
100-42-5-----	Styrene	570	U
75-25-2-----	Bromoform	570	U
79-34-5-----	1,1,2,2-Tetrachloroethane	570	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-1-08

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.01

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

Lab File ID: V2011119.D

Level: (low/med) LOW

Date Received: 01/10/02

% Moisture: 11 decanted: (Y/N) N

Date Extracted: 01/11/02

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/11/02

Injection Volume: 2 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

pH: 5.3

CONCENTRATION UNITS:

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

108-95-2----	Phenol	370	U
111-44-4----	bis(2-Chloroethyl)ether	370	U
95-57-8-----	2-Chlorophenol	370	U
541-73-1----	1,3-Dichlorobenzene	370	U
106-46-7----	1,4-Dichlorobenzene	370	U
100-51-6----	Benzyl Alcohol	370	U
95-50-1-----	1,2-Dichlorobenzene	370	U
95-48-7-----	2-Methylphenol	370	U
108-60-1----	bis(2-Chloroisopropyl)ether	370	U
106-44-5----	4-Methylphenol	370	U
621-64-7----	N-Nitroso-di-n-propylamine	370	U
67-72-1-----	Hexachloroethane	370	U
98-95-3-----	Nitrobenzene	370	U
78-59-1-----	Isophorone	370	U
88-75-5-----	2-Nitrophenol	370	U
105-67-9----	2,4-Dimethylphenol	370	U
65-85-0-----	Benzoic Acid	920	U
111-91-1-----	bis(2-Chloroethoxy)methane	370	U
120-83-2-----	2,4-Dichlorophenol	370	U
120-82-1-----	1,2,4-Trichlorobenzene	370	U
91-20-3-----	Naphthalene	12000	E
106-47-8-----	4-Chloroaniline	370	U
87-68-3-----	Hexachlorobutadiene	370	U
59-50-7-----	4-Chloro-3-methylphenol	370	U
91-57-6-----	2-Methylnaphthalene	15000	E
77-47-4-----	Hexachlorocyclopentadiene	370	U
88-06-2-----	2,4,6-Trichlorophenol	370	U
95-95-4-----	2,4,5-Trichlorophenol	920	U
91-58-7-----	2-Chloronaphthalene	370	U
88-74-4-----	2-Nitroaniline	920	U
131-11-3-----	Dimethylphthalate	370	U
208-96-8-----	Acenaphthylene	370	U
606-20-2-----	2,6-Dinitrotoluene	370	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-1-08

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.01

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

Lab File ID: V2011119.D

Level: (low/med) LOW

Date Received: 01/10/02

% Moisture: 11 decanted: (Y/N) N

Date Extracted: 01/11/02

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/11/02

Injection Volume: 2 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

pH: 5.3

CONCENTRATION UNITS:

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

99-09-2-----	3-Nitroaniline	920	U
83-32-9-----	Acenaphthene	370	U
51-28-5-----	2,4-Dinitrophenol	920	U
100-02-7-----	4-Nitrophenol	920	U
132-64-9-----	Dibenzofuran	370	U
121-14-2-----	2,4-Dinitrotoluene	370	U
84-66-2-----	Diethylphthalate	370	U
7005-72-3----	4-Chlorophenyl-phenylether	370	U
86-73-7-----	Fluorene	680	
100-01-6-----	4-Nitroaniline	920	U
534-52-1-----	4,6-Dinitro-2-methylphenol	920	U
86-30-6-----	N-Nitrosodiphenylamine (1)	370	U
101-55-3-----	4-Bromophenyl-phenylether	370	U
118-74-1-----	Hexachlorobenzene	370	U
87-86-5-----	Pentachlorophenol	920	U
85-01-8-----	Phenanthrene	1200	
120-12-7-----	Anthracene	370	U
86-74-8-----	Carbazole	370	U
84-74-2-----	Di-n-butylphthalate	370	U
206-44-0-----	Fluoranthene	370	U
129-00-0-----	Pyrene	370	U
85-68-7-----	Butylbenzylphthalate	370	U
91-94-1-----	3,3'-Dichlorobenzidine	370	U
56-55-3-----	Benzo(a)anthracene	370	U
218-01-9-----	Chrysene	370	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	370	U
117-84-0-----	Di-n-octylphthalate	370	U
205-99-2-----	Benzo(b)fluoranthene	370	U
207-08-9-----	Benzo(k)fluoranthene	370	U
50-32-8-----	Benzo(a)pyrene	370	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	370	U
53-70-3-----	Dibenz(a,h)anthracene	370	U
191-24-2-----	Benzo(g,h,i)perylene	370	U

(1) Cannot be seperated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-1-08DL

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.01DL

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

Lab File ID: V2011405.D

Level: (low/med) LOW

Date Received: 01/10/02

% Moisture: 11 decanted: (Y/N) N

Date Extracted: 01/11/02

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/14/02

Injection Volume: 2 (uL)

Dilution Factor: 10

GPC Cleanup: (Y/N) N

pH: 5.3

CONCENTRATION UNITS:

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

108-95-2----	Phenol	3700	U
111-44-4----	bis(2-Chloroethyl) ether	3700	U
95-57-8-----	2-Chlorophenol	3700	U
541-73-1-----	1,3-Dichlorobenzene	3700	U
106-46-7-----	1,4-Dichlorobenzene	3700	U
100-51-6-----	Benzyl Alcohol	3700	U
95-50-1-----	1,2-Dichlorobenzene	3700	U
95-48-7-----	2-Methylphenol	3700	U
108-60-1-----	bis(2-Chloroisopropyl) ether	3700	U
106-44-5-----	4-Methylphenol	3700	U
621-64-7-----	N-Nitroso-di-n-propylamine	3700	U
67-72-1-----	Hexachloroethane	3700	U
98-95-3-----	Nitrobenzene	3700	U
78-59-1-----	Isophorone	3700	U
88-75-5-----	2-Nitrophenol	3700	U
105-67-9-----	2,4-Dimethylphenol	3700	U
65-85-0-----	Benzoic Acid	9200	U
111-91-1-----	bis(2-Chloroethoxy) methane	3700	U
120-83-2-----	2,4-Dichlorophenol	3700	U
120-82-1-----	1,2,4-Trichlorobenzene	3700	U
91-20-3-----	Naphthalene	9300	D
106-47-8-----	4-Chloroaniline	3700	U
87-68-3-----	Hexachlorobutadiene	3700	U
59-50-7-----	4-Chloro-3-methylphenol	3700	U
91-57-6-----	2-Methylnaphthalene	13000	D
77-47-4-----	Hexachlorocyclopentadiene	3700	U
88-06-2-----	2,4,6-Trichlorophenol	3700	U
95-95-4-----	2,4,5-Trichlorophenol	9200	U
91-58-7-----	2-Chloronaphthalene	3700	U
88-74-4-----	2-Nitroaniline	9200	U
131-11-3-----	Dimethylphthalate	3700	U
208-96-8-----	Acenaphthylene	3700	U
606-20-2-----	2,6-Dinitrotoluene	3700	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-1-08DL

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.01DL

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

Lab File ID: V2011405.D

Level: (low/med) LOW

Date Received: 01/10/02

% Moisture: 11 decanted: (Y/N) N

Date Extracted: 01/11/02

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/14/02

Injection Volume: 2 (uL)

Dilution Factor: 10

GPC Cleanup: (Y/N) N pH: 5.3

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

99-09-2-----	3-Nitroaniline	9200	U
83-32-9-----	Acenaphthene	3700	U
51-28-5-----	2,4-Dinitrophenol	9200	U
100-02-7----	4-Nitrophenol	9200	U
132-64-9----	Dibenzofuran	3700	U
121-14-2----	2,4-Dinitrotoluene	3700	U
84-66-2-----	Diethylphthalate	3700	U
7005-72-3----	4-Chlorophenyl-phenylether	3700	U
86-73-7-----	Fluorene	640	DJ
100-01-6----	4-Nitroaniline	9200	U
534-52-1-----	4,6-Dinitro-2-methylphenol	9200	U
86-30-6-----	N-Nitrosodiphenylamine (1)	3700	U
101-55-3----	4-Bromophenyl-phenylether	3700	U
118-74-1-----	Hexachlorobenzene	3700	U
87-86-5-----	Pentachlorophenol	9200	U
85-01-8-----	Phenanthrene	990	DJ
120-12-7-----	Anthracene	3700	U
86-74-8-----	Carbazole	3700	U
84-74-2-----	Di-n-butylphthalate	3700	U
206-44-0-----	Fluoranthene	3700	U
129-00-0-----	Pyrene	3700	U
85-68-7-----	Butylbenzylphthalate	3700	U
91-94-1-----	3,3'-Dichlorobenzidine	3700	U
56-55-3-----	Benzo (a) anthracene	3700	U
218-01-9-----	Chrysene	3700	U
117-81-7-----	bis (2-Ethylhexyl) phthalate	3700	U
117-84-0-----	Di-n-octylphthalate	3700	U
205-99-2-----	Benzo (b) fluoranthene	3700	U
207-08-9-----	Benzo (k) fluoranthene	3700	U
50-32-8-----	Benzo (a) pyrene	3700	U
193-39-5-----	Indeno (1,2,3-cd) pyrene	3700	U
53-70-3-----	Dibenz (a,h) anthracene	3700	U
191-24-2-----	Benzo (g,h,i) perylene	3700	U

(1) Cannot be seperated from Diphenylamine

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-2-08

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.04A

Sample wt/vol: 5.3 (g/mL) G

Lab File ID: N49751.D

Level: (low/med) LOW

Date Received: 01/10/02

% Moisture: not dec. 13

Date Analyzed: 01/14/02

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
74-87-3	Chloromethane	1	J
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	B
75-00-3	Chloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	20	
75-09-2	Methylene Chloride	5	U
75-34-3	1,1-Dichloroethane	5	U
108-05-4	Vinyl Acetate	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
78-93-3	2-Butanone	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
71-43-2	Benzene	240	E
107-06-2	1,2-Dichloroethane	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
110-75-8	2-Chloroethyl vinyl ether	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-Pentanone	5	U
108-88-3	Toluene	1800	E
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	47	
1330-20-7	Xylene (total)	50000	E
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-2-08DL

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.04DL

Sample wt/vol: 5.2 (g/mL) G

Lab File ID: L49028.D

Level: (low/med) MED

Date Received: 01/10/02

% Moisture: not dec. 13

Date Analyzed: 01/16/02

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

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

74-87-3-----	Chloromethane	1100	U
75-01-4-----	Vinyl Chloride	1100	U
74-83-9-----	Bromomethane	1100	U
75-00-3-----	Chloroethane	1100	U
75-35-4-----	1,1-Dichloroethene	1100	U
67-64-1-----	Acetone	1100	U
75-15-0-----	Carbon Disulfide	1100	U
75-09-2-----	Methylene Chloride	1100	U
75-34-3-----	1,1-Dichloroethane	1100	U
108-05-4-----	Vinyl Acetate	1100	U
540-59-0-----	1,2-Dichloroethene (total)	1100	U
78-93-3-----	2-Butanone	1100	U
67-66-3-----	Chloroform	1100	U
71-55-6-----	1,1,1-Trichloroethane	1100	U
56-23-5-----	Carbon Tetrachloride	1100	U
71-43-2-----	Benzene	1100	U
107-06-2-----	1,2-Dichloroethane	1100	U
79-01-6-----	Trichloroethene	1100	U
78-87-5-----	1,2-Dichloropropane	1100	U
75-27-4-----	Bromodichloromethane	1100	U
110-75-8-----	2-Chloroethyl vinyl ether	1100	U
10061-01-5----	cis-1,3-Dichloropropene	1100	U
108-10-1-----	4-Methyl-2-Pentanone	1100	U
108-88-3-----	Toluene	1100	U
10061-02-6----	trans-1,3-Dichloropropene	1100	U
79-00-5-----	1,1,2-Trichloroethane	1100	U
127-18-4-----	Tetrachloroethene	1100	U
591-78-6-----	2-Hexanone	1100	U
124-48-1-----	Dibromochloromethane	1100	U
108-90-7-----	Chlorobenzene	1100	U
100-41-4-----	Ethylbenzene	7200	D
1330-20-7----	Xylene (total)	41000	D
100-42-5-----	Styrene	1100	U
75-25-2-----	Bromoform	1100	U
79-34-5-----	1,1,2,2-Tetrachloroethane	1100	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-2-08

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.04

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

Lab File ID: V2011122.D

Level: (low/med) LOW

Date Received: 01/10/02

% Moisture: 13 decanted: (Y/N) N

Date Extracted: 01/11/02

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/11/02

Injection Volume: 2 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: 5.2

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
100-51-6	Benzyl Alcohol	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	bis(2-Chloroisopropyl)ether	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
65-85-0	Benzoic Acid	950	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	13000	E
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	21000	E
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	950	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	950	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-2-08

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.04

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

Lab File ID: V2011122.D

Level: (low/med) LOW

Date Received: 01/10/02

% Moisture: 13 decanted: (Y/N) N

Date Extracted: 01/11/02

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/11/02

Injection Volume: 2 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

pH: 5.2

CONCENTRATION UNITS:

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

99-09-2----	3-Nitroaniline	950	U
83-32-9----	Acenaphthene	380	U
51-28-5----	2,4-Dinitrophenol	950	U
100-02-7----	4-Nitrophenol	950	U
132-64-9----	Dibenzofuran	380	U
121-14-2----	2,4-Dinitrotoluene	380	U
84-66-2----	Diethylphthalate	380	U
7005-72-3----	4-Chlorophenyl-phenylether	380	U
86-73-7----	Fluorene	1200	
100-01-6----	4-Nitroaniline	950	U
534-52-1----	4,6-Dinitro-2-methylphenol	950	U
86-30-6----	N-Nitrosodiphenylamine (1)	380	U
101-55-3----	4-Bromophenyl-phenylether	380	U
118-74-1----	Hexachlorobenzene	380	U
87-86-5----	Pentachlorophenol	950	U
85-01-8----	Phenanthrene	2000	
120-12-7----	Anthracene	380	U
86-74-8----	Carbazole	380	U
84-74-2----	Di-n-butylphthalate	380	U
206-44-0----	Fluoranthene	380	U
129-00-0----	Pyrene	380	U
85-68-7----	Butylbenzylphthalate	380	U
91-94-1-----	3,3'-Dichlorobenzidine	380	U
56-55-3----	Benzo(a)anthracene	380	U
218-01-9----	Chrysene	27	J
117-81-7----	bis(2-Ethylhexyl)phthalate	380	U
117-84-0----	Di-n-octylphthalate	380	U
205-99-2----	Benzo(b)fluoranthene	380	U
207-08-9----	Benzo(k)fluoranthene	380	U
50-32-8----	Benzo(a)pyrene	380	U
193-39-5----	Indeno(1,2,3-cd)pyrene	380	U
53-70-3----	Dibenz(a,h)anthracene	380	U
191-24-2----	Benzo(g,h,i)perylene	380	U

(1) Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-2-08DL

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.04DL

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

Lab File ID: V2011406.D

Level: (low/med) LOW

Date Received: 01/10/02

% Moisture: 13 decanted: (Y/N) N

Date Extracted: 01/11/02

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/14/02

Injection Volume: 2 (uL)

Dilution Factor: 10

GPC Cleanup: (Y/N) N pH: 5.2

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

CAS NO.	COMPOUND	Q
108-95-2----	Phenol	U
111-44-4----	bis(2-Chloroethyl) ether	U
95-57-8-----	2-Chlorophenol	U
541-73-1-----	1,3-Dichlorobenzene	U
106-46-7-----	1,4-Dichlorobenzene	U
100-51-6-----	Benzyl Alcohol	U
95-50-1-----	1,2-Dichlorobenzene	U
95-48-7-----	2-Methylphenol	U
108-60-1-----	bis(2-Chloroisopropyl) ether	U
106-44-5-----	4-Methylphenol	U
621-64-7----	N-Nitroso-di-n-propylamine	U
67-72-1-----	Hexachloroethane	U
98-95-3-----	Nitrobenzene	U
78-59-1-----	Isophorone	U
88-75-5-----	2-Nitrophenol	U
105-67-9-----	2,4-Dimethylphenol	U
65-85-0-----	Benzoic Acid	U
111-91-1-----	bis(2-Chloroethoxy) methane	U
120-83-2-----	2,4-Dichlorophenol	U
120-82-1-----	1,2,4-Trichlorobenzene	U
91-20-3-----	Naphthalene	D
106-47-8-----	4-Chloroaniline	U
87-68-3-----	Hexachlorobutadiene	U
59-50-7-----	4-Chloro-3-methylphenol	U
91-57-6-----	2-Methylnaphthalene	D
77-47-4-----	Hexachlorocyclopentadiene	U
88-06-2-----	2,4,6-Trichlorophenol	U
95-95-4-----	2,4,5-Trichlorophenol	U
91-58-7-----	2-Chloronaphthalene	U
88-74-4-----	2-Nitroaniline	U
131-11-3-----	Dimethylphthalate	U
208-96-8-----	Acenaphthylene	U
606-20-2-----	2,6-Dinitrotoluene	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-2-08DL

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.04DL

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

Lab File ID: V2011406.D

Level: (low/med) LOW

Date Received: 01/10/02

% Moisture: 13 decanted: (Y/N) N

Date Extracted: 01/11/02

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/14/02

Injection Volume: 2 (uL)

Dilution Factor: 10

GPC Cleanup: (Y/N) N

pH: 5.2

CONCENTRATION UNITS:

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

99-09-2-----	3-Nitroaniline	9500	U
83-32-9-----	Acenaphthene	400	DJ
51-28-5-----	2,4-Dinitrophenol	9500	U
100-02-7-----	4-Nitrophenol	9500	U
132-64-9-----	Dibenzofuran	3800	U
121-14-2-----	2,4-Dinitrotoluene	3800	U
84-66-2-----	Diethylphthalate	3800	U
7005-72-3---	4-Chlorophenyl-phenylether	3800	U
86-73-7-----	Fluorene	1000	DJ
100-01-6-----	4-Nitroaniline	9500	U
534-52-1-----	4,6-Dinitro-2-methylphenol	9500	U
86-30-6-----	N-Nitrosodiphenylamine (1)	3800	U
101-55-3-----	4-Bromophenyl-phenylether	3800	U
118-74-1-----	Hexachlorobenzene	3800	U
87-86-5-----	Pentachlorophenol	9500	U
85-01-8-----	Phenanthrene	1700	DJ
120-12-7-----	Anthracene	3800	U
86-74-8-----	Carbazole	3800	U
84-74-2-----	Di-n-butylphthalate	3800	U
206-44-0-----	Fluoranthene	3800	U
129-00-0-----	Pyrene	3800	U
85-68-7-----	Butylbenzylphthalate	3800	U
91-94-1-----	3,3'-Dichlorobenzidine	3800	U
56-55-3-----	Benzo(a)anthracene	3800	U
218-01-9-----	Chrysene	3800	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	3800	U
117-84-0-----	Di-n-octylphthalate	3800	U
205-99-2-----	Benzo(b)fluoranthene	3800	U
207-08-9-----	Benzo(k)fluoranthene	3800	U
50-32-8-----	Benzo(a)pyrene	3800	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	3800	U
53-70-3-----	Dibenz(a,h)anthracene	3800	U
191-24-2-----	Benzo(g,h,i)perylene	3800	U

(1) Cannot be separated from Diphenylamine

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-3-08

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.05A

Sample wt/vol: 5.8 (g/mL) G

Lab File ID: N49752.D

Level: (low/med) LOW

Date Received: 01/10/02

% Moisture: not dec. 15

Date Analyzed: 01/14/02

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	5	U
75-01-4	-----Vinyl Chloride	5	U
74-83-9	-----Bromomethane	4	BJ
75-00-3	-----Chloroethane	5	U
75-35-4	-----1,1-Dichloroethene	5	U
67-64-1	-----Acetone	5	U
75-15-0	-----Carbon Disulfide	7	
75-09-2	-----Methylene Chloride	5	U
75-34-3	-----1,1-Dichloroethane	5	U
108-05-4	-----Vinyl Acetate	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
78-93-3	-----2-Butanone	5	U
67-66-3	-----Chloroform	68	
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
71-43-2	-----Benzene	64	
107-06-2	-----1,2-Dichloroethane	5	U
79-01-6	-----Trichloroethene	5	U
78-87-5	-----1,2-Dichloropropane	5	U
75-27-4	-----Bromodichloromethane	5	U
110-75-8	-----2-Chloroethyl vinyl ether	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
108-10-1	-----4-Methyl-2-Pentanone	5	U
108-88-3	-----Toluene	400	E
10061-02-6	-----trans-1,3-Dichloropropene	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
127-18-4	-----Tetrachloroethene	5	U
591-78-6	-----2-Hexanone	5	U
124-48-1	-----Dibromochloromethane	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	6800	E
1330-20-7	-----Xylene (total)	19000	E
100-42-5	-----Styrene	5	U
75-25-2	-----Bromoform	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-3-08DL

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.05DL

Sample wt/vol: 5.8 (g/mL) G

Lab File ID: L49010.D

Level: (low/med) MED

Date Received: 01/10/02

% Moisture: not dec. 15

Date Analyzed: 01/16/02

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	510	U
75-01-4	-----Vinyl Chloride	510	U
74-83-9	-----Bromomethane	510	U
75-00-3	-----Chloroethane	510	U
75-35-4	-----1,1-Dichloroethene	510	U
67-64-1	-----Acetone	510	U
75-15-0	-----Carbon Disulfide	510	U
75-09-2	-----Methylene Chloride	510	U
75-34-3	-----1,1-Dichloroethane	510	U
108-05-4	-----Vinyl Acetate	510	U
540-59-0	-----1,2-Dichloroethene (total)	510	U
78-93-3	-----2-Butanone	510	U
67-66-3	-----Chloroform	510	U
71-55-6	-----1,1,1-Trichloroethane	510	U
56-23-5	-----Carbon Tetrachloride	510	U
71-43-2	-----Benzene	510	U
107-06-2	-----1,2-Dichloroethane	510	U
79-01-6	-----Trichloroethene	510	U
78-87-5	-----1,2-Dichloropropane	510	U
75-27-4	-----Bromodichloromethane	510	U
110-75-8	-----2-Chloroethyl vinyl ether	510	U
10061-01-5	-----cis-1,3-Dichloropropene	510	U
108-10-1	-----4-Methyl-2-Pentanone	510	U
108-88-3	-----Toluene	510	U
10061-02-6	-----trans-1,3-Dichloropropene	510	U
79-00-5	-----1,1,2-Trichloroethane	510	U
127-18-4	-----Tetrachloroethene	510	U
591-78-6	-----2-Hexanone	510	U
124-48-1	-----Dibromochloromethane	510	U
108-90-7	-----Chlorobenzene	510	U
100-41-4	-----Ethylbenzene	180	DJ
1330-20-7	-----Xylene (total)	1200	D
100-42-5	-----Styrene	510	U
75-25-2	-----Bromoform	510	U
79-34-5	-----1,1,2,2-Tetrachloroethane	510	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-3-08

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.05

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: V2011123.D

Level: (low/med) LOW

Date Received: 01/10/02

% Moisture: 15 decanted: (Y/N) N

Date Extracted: 01/11/02

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/11/02

Injection Volume: 2 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: 5.3

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2----	Phenol	390	U
111-44-4----	bis(2-Chloroethyl) ether	390	U
95-57-8----	2-Chlorophenol	390	U
541-73-1----	1,3-Dichlorobenzene	390	U
106-46-7----	1,4-Dichlorobenzene	390	U
100-51-6----	Benzyl Alcohol	390	U
95-50-1----	1,2-Dichlorobenzene	390	U
95-48-7----	2-Methylphenol	390	U
108-60-1----	bis(2-Chloroisopropyl) ether	390	U
106-44-5----	4-Methylphenol	390	U
621-64-7----	N-Nitroso-di-n-propylamine	390	U
67-72-1----	Hexachloroethane	390	U
98-95-3----	Nitrobenzene	390	U
78-59-1----	Isophorone	390	U
88-75-5----	2-Nitrophenol	390	U
105-67-9----	2,4-Dimethylphenol	390	U
65-85-0----	Benzoic Acid	970	U
111-91-1----	bis(2-Chloroethoxy) methane	390	U
120-83-2----	2,4-Dichlorophenol	390	U
120-82-1----	1,2,4-Trichlorobenzene	390	U
91-20-3----	Naphthalene	20000	E
106-47-8----	4-Chloroaniline	390	U
87-68-3----	Hexachlorobutadiene	390	U
59-50-7----	4-Chloro-3-methylphenol	390	U
91-57-6----	2-Methylnaphthalene	28000	E
77-47-4----	Hexachlorocyclopentadiene	390	U
88-06-2----	2,4,6-Trichlorophenol	390	U
95-95-4----	2,4,5-Trichlorophenol	970	U
91-58-7----	2-Chloronaphthalene	390	U
88-74-4----	2-Nitroaniline	970	U
131-11-3----	Dimethylphthalate	390	U
208-96-8----	Acenaphthylene	390	U
606-20-2----	2,6-Dinitrotoluene	390	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-3-08

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.05

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: V2011123.D

Level: (low/med) LOW

Date Received: 01/10/02

% Moisture: 15 decanted: (Y/N) N

Date Extracted: 01/11/02

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/11/02

Injection Volume: 2 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

pH: 5.3

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2-----	3-Nitroaniline	970	U
83-32-9-----	Acenaphthene	390	U
51-28-5-----	2,4-Dinitrophenol	970	U
100-02-7-----	4-Nitrophenol	970	U
132-64-9-----	Dibenzofuran	390	U
121-14-2-----	2,4-Dinitrotoluene	390	U
84-66-2-----	Diethylphthalate	390	U
7005-72-3----	4-Chlorophenyl-phenylether	390	U
86-73-7-----	Fluorene	1300	
100-01-6-----	4-Nitroaniline	970	U
534-52-1-----	4,6-Dinitro-2-methylphenol	970	U
86-30-6-----	N-Nitrosodiphenylamine (1)	390	U
101-55-3-----	4-Bromophenyl-phenylether	390	U
118-74-1-----	Hexachlorobenzene	390	U
87-86-5-----	Pentachlorophenol	970	U
85-01-8-----	Phenanthrene	2100	
120-12-7-----	Anthracene	390	U
86-74-8-----	Carbazole	390	U
84-74-2-----	Di-n-butylphthalate	390	U
206-44-0-----	Fluoranthene	390	U
129-00-0-----	Pyrene	200	J
85-68-7-----	Butylbenzylphthalate	390	U
91-94-1-----	3,3'-Dichlorobenzidine	390	U
56-55-3-----	Benzo (a) anthracene	390	U
218-01-9-----	Chrysene	25	J
117-81-7-----	bis (2-Ethylhexyl) phthalate	390	U
117-84-0-----	Di-n-octylphthalate	390	U
205-99-2-----	Benzo (b) fluoranthene	390	U
207-08-9-----	Benzo (k) fluoranthene	390	U
50-32-8-----	Benzo (a) pyrene	390	U
193-39-5-----	Indeno (1,2,3-cd) pyrene	390	U
53-70-3-----	Dibenz (a,h) anthracene	390	U
191-24-2-----	Benzo (g,h,i) perylene	390	U

(1) Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-3-08DL

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.05DL

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: V2011407.D

Level: (low/med) LOW

Date Received: 01/10/02

% Moisture: 15 decanted: (Y/N) N

Date Extracted: 01/11/02

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/14/02

Injection Volume: 2 (uL)

Dilution Factor: 20

GPC Cleanup: (Y/N) N pH: 5.3

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

108-95-2----	Phenol	7800	U
111-44-4----	bis(2-Chloroethyl) ether	7800	U
95-57-8-----	2-Chlorophenol	7800	U
541-73-1----	1,3-Dichlorobenzene	7800	U
106-46-7----	1,4-Dichlorobenzene	7800	U
100-51-6----	Benzyl Alcohol	7800	U
95-50-1-----	1,2-Dichlorobenzene	7800	U
95-48-7-----	2-Methylphenol	7800	U
108-60-1----	bis(2-Chloroisopropyl) ether	7800	U
106-44-5----	4-Methylphenol	7800	U
621-64-7----	N-Nitroso-di-n-propylamine	7800	U
67-72-1-----	Hexachloroethane	7800	U
98-95-3-----	Nitrobenzene	7800	U
78-59-1-----	Isophorone	7800	U
88-75-5-----	2-Nitrophenol	7800	U
105-67-9----	2,4-Dimethylphenol	7800	U
65-85-0-----	Benzoic Acid	19000	U
111-91-1----	bis(2-Chloroethoxy) methane	7800	U
120-83-2----	2,4-Dichlorophenol	7800	U
120-82-1----	1,2,4-Trichlorobenzene	7800	U
91-20-3-----	Naphthalene	15000	D
106-47-8----	4-Chloroaniline	7800	U
87-68-3-----	Hexachlorobutadiene	7800	U
59-50-7-----	4-Chloro-3-methylphenol	7800	U
91-57-6-----	2-Methylnaphthalene	22000	D
77-47-4-----	Hexachlorocyclopentadiene	7800	U
88-06-2-----	2,4,6-Trichlorophenol	7800	U
95-95-4-----	2,4,5-Trichlorophenol	19000	U
91-58-7-----	2-Chloronaphthalene	7800	U
88-74-4-----	2-Nitroaniline	19000	U
131-11-3----	Dimethylphthalate	7800	U
208-96-8----	Acenaphthylene	7800	U
606-20-2----	2,6-Dinitrotoluene	7800	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-3-08DL

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.05DL

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: V2011407.D

Level: (low/med) LOW

Date Received: 01/10/02

% Moisture: 15 decanted: (Y/N) N

Date Extracted: 01/11/02

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/14/02

Injection Volume: 2 (uL)

Dilution Factor: 20

GPC Cleanup: (Y/N) N

pH: 5.3

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

99-09-2-----3-Nitroaniline	19000	U
83-32-9-----Acenaphthene	7800	U
51-28-5-----2,4-Dinitrophenol	19000	U
100-02-7-----4-Nitrophenol	19000	U
132-64-9-----Dibenzofuran	7800	U
121-14-2-----2,4-Dinitrotoluene	7800	U
84-66-2-----Diethylphthalate	7800	U
7005-72-3----4-Chlorophenyl-phenylether	7800	U
86-73-7-----Fluorene	7800	U
100-01-6-----4-Nitroaniline	19000	U
534-52-1-----4,6-Dinitro-2-methylphenol	19000	U
86-30-6-----N-Nitrosodiphenylamine (1)	7800	U
101-55-3-----4-Bromophenyl-phenylether	7800	U
118-74-1-----Hexachlorobenzene	7800	U
87-86-5-----Pentachlorophenol	19000	U
85-01-8-----Phenanthrene	1700	DJ
120-12-7-----Anthracene	7800	U
86-74-8-----Carbazole	7800	U
84-74-2-----Di-n-butylphthalate	7800	U
206-44-0-----Fluoranthene	7800	U
129-00-0-----Pyrene	7800	U
85-68-7-----Butylbenzylphthalate	7800	U
91-94-1-----3,3'-Dichlorobenzidine	7800	U
56-55-3-----Benzo(a)anthracene	7800	U
218-01-9-----Chrysene	7800	U
117-81-7-----bis(2-Ethylhexyl)phthalate	7800	U
117-84-0-----Di-n-octylphthalate	7800	U
205-99-2-----Benzo(b)fluoranthene	7800	U
207-08-9-----Benzo(k)fluoranthene	7800	U
50-32-8-----Benzo(a)pyrene	7800	U
193-39-5-----Indeno(1,2,3-cd)pyrene	7800	U
53-70-3-----Dibenz(a,h)anthracene	7800	U
191-24-2-----Benzo(g,h,i)perylene	7800	U

(1) Cannot be separated from Diphenylamine

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-4-08

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.06A

Sample wt/vol: 5.6 (g/mL) G

Lab File ID: N49753.D

Level: (low/med) LOW

Date Received: 01/10/02

% Moisture: not dec. 12

Date Analyzed: 01/15/02

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
74-87-3-----	Chloromethane	5	U
75-01-4-----	Vinyl Chloride	5	U
74-83-9-----	Bromomethane	3	BJ
75-00-3-----	Chloroethane	5	U
75-35-4-----	1,1-Dichloroethene	5	U
67-64-1-----	Acetone	40	
75-15-0-----	Carbon Disulfide	4	J
75-09-2-----	Methylene Chloride	5	BJ
75-34-3-----	1,1-Dichloroethane	5	U
108-05-4-----	Vinyl Acetate	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
78-93-3-----	2-Butanone	5	U
67-66-3-----	Chloroform	5	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
71-43-2-----	Benzene	5	U
107-06-2-----	1,2-Dichloroethane	5	U
79-01-6-----	Trichloroethene	5	U
78-87-5-----	1,2-Dichloropropane	5	U
75-27-4-----	Bromodichloromethane	5	U
110-75-8-----	2-Chloroethyl vinyl ether	5	U
10061-01-5---	cis-1,3-Dichloropropene	5	U
108-10-1-----	4-Methyl-2-Pentanone	5	U
108-88-3-----	Toluene	18	
10061-02-6---	trans-1,3-Dichloropropene	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
127-18-4-----	Tetrachloroethene	5	U
591-78-6-----	2-Hexanone	5	U
124-48-1-----	Dibromochloromethane	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	2200	E
1330-20-7---	Xylene (total)	8600	E
100-42-5-----	Styrene	5	U
75-25-2-----	Bromoform	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-4-08DL

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.06DL

Sample wt/vol: 5.4 (g/mL) G

Lab File ID: L49011.D

Level: (low/med) MED

Date Received: 01/10/02

% Moisture: not dec. 12

Date Analyzed: 01/16/02

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
			Q
74-87-3	Chloromethane	530	U
75-01-4	Vinyl Chloride	530	U
74-83-9	Bromomethane	530	U
75-00-3	Chloroethane	530	U
75-35-4	1,1-Dichloroethene	530	U
67-64-1	Acetone	530	U
75-15-0	Carbon Disulfide	530	U
75-09-2	Methylene Chloride	530	U
75-34-3	1,1-Dichloroethane	530	U
108-05-4	Vinyl Acetate	530	U
540-59-0	1,2-Dichloroethene (total)	530	U
78-93-3	2-Butanone	530	U
67-66-3	Chloroform	530	U
71-55-6	1,1,1-Trichloroethane	530	U
56-23-5	Carbon Tetrachloride	530	U
71-43-2	Benzene	530	U
107-06-2	1,2-Dichloroethane	530	U
79-01-6	Trichloroethene	530	U
78-87-5	1,2-Dichloropropane	530	U
75-27-4	Bromodichloromethane	530	U
110-75-8	2-Chloroethyl vinyl ether	530	U
10061-01-5	cis-1,3-Dichloropropene	530	U
108-10-1	4-Methyl-2-Pentanone	530	U
108-88-3	Toluene	530	U
10061-02-6	trans-1,3-Dichloropropene	530	U
79-00-5	1,1,2-Trichloroethane	530	U
127-18-4	Tetrachloroethene	530	U
591-78-6	2-Hexanone	530	U
124-48-1	Dibromochloromethane	530	U
108-90-7	Chlorobenzene	530	U
100-41-4	Ethylbenzene	2300	D
1330-20-7	Xylene (total)	12000	D
100-42-5	Styrene	530	U
75-25-2	Bromoform	530	U
79-34-5	1,1,2,2-Tetrachloroethane	530	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-4-08

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.06

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: V2011124.D

Level: (low/med) LOW

Date Received: 01/10/02

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 01/11/02

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/11/02

Injection Volume: 2 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

pH: 5.2

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

108-95-2----	Phenol	370	U
111-44-4----	bis (2-Chloroethyl) ether	370	U
95-57-8----	2-Chlorophenol	370	U
541-73-1----	1,3-Dichlorobenzene	370	U
106-46-7----	1,4-Dichlorobenzene	370	U
100-51-6----	Benzyl Alcohol	370	U
95-50-1----	1,2-Dichlorobenzene	370	U
95-48-7----	2-Methylphenol	370	U
108-60-1----	bis (2-Chloroisopropyl) ether	370	U
106-44-5----	4-Methylphenol	370	U
621-64-7----	N-Nitroso-di-n-propylamine	370	U
67-72-1----	Hexachloroethane	370	U
98-95-3----	Nitrobenzene	370	U
78-59-1----	Isophorone	370	U
88-75-5----	2-Nitrophenol	370	U
105-67-9----	2,4-Dimethylphenol	370	U
65-85-0----	Benzoic Acid	920	U
111-91-1----	bis (2-Chloroethoxy) methane	370	U
120-83-2----	2,4-Dichlorophenol	370	U
120-82-1----	1,2,4-Trichlorobenzene	370	U
91-20-3----	Naphthalene	1000	
106-47-8----	4-Chloroaniline	370	U
87-68-3----	Hexachlorobutadiene	370	U
59-50-7----	4-Chloro-3-methylphenol	370	U
91-57-6----	2-Methylnaphthalene	1700	
77-47-4----	Hexachlorocyclopentadiene	370	U
88-06-2----	2,4,6-Trichlorophenol	370	U
95-95-4----	2,4,5-Trichlorophenol	920	U
91-58-7----	2-Chloronaphthalene	370	U
88-74-4----	2-Nitroaniline	920	U
131-11-3----	Dimethylphthalate	370	U
208-96-8----	Acenaphthylene	370	U
606-20-2----	2,6-Dinitrotoluene	370	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-4-08

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.06

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: V2011124.D

Level: (low/med) LOW

Date Received: 01/10/02

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 01/11/02

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/11/02

Injection Volume: 2 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: 5.2

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
99-09-2-----	3-Nitroaniline	920	U
83-32-9-----	Acenaphthene	370	U
51-28-5-----	2,4-Dinitrophenol	920	U
100-02-7-----	4-Nitrophenol	920	U
132-64-9-----	Dibenzofuran	370	U
121-14-2-----	2,4-Dinitrotoluene	370	U
84-66-2-----	Diethylphthalate	370	U
7005-72-3----	4-Chlorophenyl-phenylether	370	U
86-73-7-----	Fluorene	92	J
100-01-6-----	4-Nitroaniline	920	U
534-52-1-----	4,6-Dinitro-2-methylphenol	920	U
86-30-6-----	N-Nitrosodiphenylamine (1)	370	U
101-55-3-----	4-Bromophenyl-phenylether	370	U
118-74-1-----	Hexachlorobenzene	370	U
87-86-5-----	Pentachlorophenol	920	U
85-01-8-----	Phenanthrene	150	J
120-12-7-----	Anthracene	370	U
86-74-8-----	Carbazole	370	U
84-74-2-----	Di-n-butylphthalate	370	U
206-44-0-----	Fluoranthene	370	U
129-00-0-----	Pyrene	370	U
85-68-7-----	Butylbenzylphthalate	370	U
91-94-1-----	3,3'-Dichlorobenzidine	370	U
56-55-3-----	Benzo (a) anthracene	370	U
218-01-9-----	Chrysene	370	U
117-81-7-----	bis (2-Ethylhexyl) phthalate	370	U
117-84-0-----	Di-n-octylphthalate	370	U
205-99-2-----	Benzo (b) fluoranthene	370	U
207-08-9-----	Benzo (k) fluoranthene	370	U
50-32-8-----	Benzo (a) pyrene	370	U
193-39-5-----	Indeno (1,2,3-cd) pyrene	370	U
53-70-3-----	Dibenz (a,h) anthracene	370	U
191-24-2-----	Benzo (g,h,i) perylene	370	U

(1) Cannot be seperated from Diphenylamine

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-5-00 ¹² DPK

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.07A

Sample wt/vol: 6.1 (g/mL) G

Lab File ID: N49754.D

Level: (low/med) LOW

Date Received: 01/10/02

% Moisture: not dec. 15

Date Analyzed: 01/15/02

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	3	BJ
75-00-3	Chloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	18	
75-15-0	Carbon Disulfide	3	J
75-09-2	Methylene Chloride	4	BJ
75-34-3	1,1-Dichloroethane	5	U
108-05-4	Vinyl Acetate	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
78-93-3	2-Butanone	5	U
67-66-3	Chloroform	5	J
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
71-43-2	Benzene	36	
107-06-2	1,2-Dichloroethane	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
110-75-8	2-Chloroethyl vinyl ether	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-Pentanone	5	U
108-88-3	Toluene	77	
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	670	E
1330-20-7	Xylene (total)	3300	E
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-5-08DL ^{12 DL}

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.07DL

Sample wt/vol: 6.6 (g/mL) G

Lab File ID: L49012.D

Level: (low/med) MED

Date Received: 01/10/02

% Moisture: not dec. 15

Date Analyzed: 01/16/02

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100 (uL)

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	450	U
75-01-4	Vinyl Chloride	450	U
74-83-9	Bromomethane	450	U
75-00-3	Chloroethane	450	U
75-35-4	1,1-Dichloroethene	450	U
67-64-1	Acetone	450	U
75-15-0	Carbon Disulfide	450	U
75-09-2	Methylene Chloride	450	U
75-34-3	1,1-Dichloroethane	450	U
108-05-4	Vinyl Acetate	450	U
540-59-0	1,2-Dichloroethene (total)	450	U
78-93-3	2-Butanone	450	U
67-66-3	Chloroform	450	U
71-55-6	1,1,1-Trichloroethane	450	U
56-23-5	Carbon Tetrachloride	450	U
71-43-2	Benzene	450	U
107-06-2	1,2-Dichloroethane	450	U
79-01-6	Trichloroethene	450	U
78-87-5	1,2-Dichloropropane	450	U
75-27-4	Bromodichloromethane	450	U
110-75-8	2-Chloroethyl vinyl ether	450	U
10061-01-5	cis-1,3-Dichloropropene	450	U
108-10-1	4-Methyl-2-Pentanone	450	U
108-88-3	Toluene	390	DJ
10061-02-6	trans-1,3-Dichloropropene	450	U
79-00-5	1,1,2-Trichloroethane	450	U
127-18-4	Tetrachloroethene	450	U
591-78-6	2-Hexanone	450	U
124-48-1	Dibromochloromethane	450	U
108-90-7	Chlorobenzene	450	U
100-41-4	Ethylbenzene	4400	D
1330-20-7	Xylene (total)	25000	D
100-42-5	Styrene	450	U
75-25-2	Bromoform	450	U
79-34-5	1,1,2,2-Tetrachloroethane	450	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-5-¹²~~08~~ *DPL*

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.07

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

Lab File ID: V2011424.D

Level: (low/med) LOW

Date Received: 01/10/02

% Moisture: 15 decanted: (Y/N) N

Date Extracted: 01/11/02

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/14/02

Injection Volume: 2 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

pH: 5.1

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

108-95-2----	Phenol	390	U
111-44-4----	bis(2-Chloroethyl) ether	390	U
95-57-8-----	2-Chlorophenol	390	U
541-73-1----	1,3-Dichlorobenzene	390	U
106-46-7----	1,4-Dichlorobenzene	390	U
100-51-6----	Benzyl Alcohol	390	U
95-50-1-----	1,2-Dichlorobenzene	390	U
95-48-7-----	2-Methylphenol	390	U
108-60-1----	bis(2-Chloroisopropyl) ether	390	U
106-44-5----	4-Methylphenol	390	U
621-64-7----	N-Nitroso-di-n-propylamine	390	U
67-72-1-----	Hexachloroethane	390	U
98-95-3-----	Nitrobenzene	390	U
78-59-1-----	Isophorone	390	U
88-75-5-----	2-Nitrophenol	390	U
105-67-9----	2,4-Dimethylphenol	390	U
65-85-0-----	Benzoic Acid	960	U
111-91-1----	bis(2-Chloroethoxy) methane	390	U
120-83-2----	2,4-Dichlorophenol	390	U
120-82-1----	1,2,4-Trichlorobenzene	390	U
91-20-3-----	Naphthalene	250	J
106-47-8-----	4-Chloroaniline	390	U
87-68-3-----	Hexachlorobutadiene	390	U
59-50-7-----	4-Chloro-3-methylphenol	390	U
91-57-6-----	2-Methylnaphthalene	530	
77-47-4-----	Hexachlorocyclopentadiene	390	U
88-06-2-----	2,4,6-Trichlorophenol	390	U
95-95-4-----	2,4,5-Trichlorophenol	960	U
91-58-7-----	2-Chloronaphthalene	390	U
88-74-4-----	2-Nitroaniline	960	U
131-11-3----	Dimethylphthalate	390	U
208-96-8----	Acenaphthylene	390	U
606-20-2----	2,6-Dinitrotoluene	390	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-5-¹²~~08~~ *OK*

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.07

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

Lab File ID: V2011424.D

Level: (low/med) LOW

Date Received: 01/10/02

% Moisture: 15 decanted: (Y/N) N

Date Extracted: 01/11/02

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/14/02

Injection Volume: 2 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

pH: 5.1

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
99-09-2-----	3-Nitroaniline	960	U
83-32-9-----	Acenaphthene	390	U
51-28-5-----	2,4-Dinitrophenol	960	U
100-02-7----	4-Nitrophenol	960	U
132-64-9----	Dibenzofuran	390	U
121-14-2----	2,4-Dinitrotoluene	390	U
84-66-2-----	Diethylphthalate	390	U
7005-72-3---	4-Chlorophenyl-phenylether	390	U
86-73-7-----	Fluorene	390	U
100-01-6----	4-Nitroaniline	960	U
534-52-1----	4,6-Dinitro-2-methylphenol	960	U
86-30-6-----	N-Nitrosodiphenylamine (1)	390	U
101-55-3----	4-Bromophenyl-phenylether	390	U
118-74-1----	Hexachlorobenzene	390	U
87-86-5-----	Pentachlorophenol	960	U
85-01-8-----	Phenanthrene	62	J
120-12-7----	Anthracene	390	U
86-74-8-----	Carbazole	390	U
84-74-2-----	Di-n-butylphthalate	390	U
206-44-0-----	Fluoranthene	390	U
129-00-0-----	Pyrene	390	U
85-68-7-----	Butylbenzylphthalate	390	U
91-94-1-----	3,3'-Dichlorobenzidine	390	U
56-55-3-----	Benzo (a) anthracene	390	U
218-01-9-----	Chrysene	390	U
117-81-7-----	bis (2-Ethylhexyl) phthalate	390	U
117-84-0-----	Di-n-octylphthalate	210	J
205-99-2-----	Benzo (b) fluoranthene	390	U
207-08-9-----	Benzo (k) fluoranthene	390	U
50-32-8-----	Benzo (a) pyrene	390	U
193-39-5-----	Indeno (1,2,3-cd) pyrene	390	U
53-70-3-----	Dibenz (a,h) anthracene	390	U
191-24-2-----	Benzo (g,h,i) perylene	390	U

(1) Cannot be seperated from Diphenylamine

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-6-08 ¹² *del*

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.08A

Sample wt/vol: 6.1 (g/mL) G

Lab File ID: N49755.D

Level: (low/med) LOW

Date Received: 01/10/02

% Moisture: not dec. 17

Date Analyzed: 01/15/02

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	3	BJ
75-00-3	Chloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	7	
75-09-2	Methylene Chloride	9	B
75-34-3	1,1-Dichloroethane	5	U
108-05-4	Vinyl Acetate	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
78-93-3	2-Butanone	5	U
67-66-3	Chloroform	32	
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
71-43-2	Benzene	94	
107-06-2	1,2-Dichloroethane	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
110-75-8	2-Chloroethyl vinyl ether	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-Pentanone	5	U
108-88-3	Toluene	430	E
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	3400	E
1330-20-7	Xylene (total)	11000	E
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-6-¹²08DL ⁰⁰⁴

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.08DL

Sample wt/vol: 6.2 (g/mL) G

Lab File ID: L49013.D

Level: (low/med) MED

Date Received: 01/10/02

% Moisture: not dec. 17

Date Analyzed: 01/16/02

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100 (uL)

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

74-87-3-----	Chloromethane	490	U
75-01-4-----	Vinyl Chloride	490	U
74-83-9-----	Bromomethane	490	U
75-00-3-----	Chloroethane	490	U
75-35-4-----	1,1-Dichloroethene	490	U
67-64-1-----	Acetone	490	U
75-15-0-----	Carbon Disulfide	490	U
75-09-2-----	Methylene Chloride	490	U
75-34-3-----	1,1-Dichloroethane	490	U
108-05-4-----	Vinyl Acetate	490	U
540-59-0-----	1,2-Dichloroethene (total)	490	U
78-93-3-----	2-Butanone	490	U
67-66-3-----	Chloroform	490	U
71-55-6-----	1,1,1-Trichloroethane	490	U
56-23-5-----	Carbon Tetrachloride	490	U
71-43-2-----	Benzene	490	U
107-06-2-----	1,2-Dichloroethane	490	U
79-01-6-----	Trichloroethene	490	U
78-87-5-----	1,2-Dichloropropane	490	U
75-27-4-----	Bromodichloromethane	490	U
110-75-8-----	2-Chloroethyl vinyl ether	490	U
10061-01-5---	cis-1,3-Dichloropropene	490	U
108-10-1-----	4-Methyl-2-Pentanone	490	U
108-88-3-----	Toluene	120	DJ
10061-02-6---	trans-1,3-Dichloropropene	490	U
79-00-5-----	1,1,2-Trichloroethane	490	U
127-18-4-----	Tetrachloroethene	490	U
591-78-6-----	2-Hexanone	490	U
124-48-1-----	Dibromochloromethane	490	U
108-90-7-----	Chlorobenzene	490	U
100-41-4-----	Ethylbenzene	990	D
1330-20-7----	Xylene (total)	5800	D
100-42-5-----	Styrene	490	U
75-25-2-----	Bromoform	490	U
79-34-5-----	1,1,2,2-Tetrachloroethane	490	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-6-08 ¹² *DM*

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.08

Sample wt/vol: 30.4 (g/mL) G

Lab File ID: V2011426.D

Level: (low/med) LOW

Date Received: 01/10/02

% Moisture: 17 decanted: (Y/N) N

Date Extracted: 01/11/02

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/14/02

Injection Volume: 2 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

pH: 5.3

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2----	Phenol	400	U
111-44-4----	bis (2-Chloroethyl) ether	400	U
95-57-8-----	2-Chlorophenol	400	U
541-73-1----	1,3-Dichlorobenzene	400	U
106-46-7----	1,4-Dichlorobenzene	400	U
100-51-6----	Benzyl Alcohol	400	U
95-50-1-----	1,2-Dichlorobenzene	400	U
95-48-7-----	2-Methylphenol	400	U
108-60-1----	bis (2-Chloroisopropyl) ether	400	U
106-44-5----	4-Methylphenol	400	U
621-64-7----	N-Nitroso-di-n-propylamine	400	U
67-72-1-----	Hexachloroethane	400	U
98-95-3-----	Nitrobenzene	400	U
78-59-1-----	Isophorone	400	U
88-75-5-----	2-Nitrophenol	400	U
105-67-9----	2,4-Dimethylphenol	400	U
65-85-0-----	Benzoic Acid	990	U
111-91-1----	bis (2-Chloroethoxy) methane	400	U
120-83-2----	2,4-Dichlorophenol	400	U
120-82-1----	1,2,4-Trichlorobenzene	400	U
91-20-3-----	Naphthalene	5100	E
106-47-8----	4-Chloroaniline	400	U
87-68-3-----	Hexachlorobutadiene	400	U
59-50-7-----	4-Chloro-3-methylphenol	400	U
91-57-6-----	2-Methylnaphthalene	7000	E
77-47-4-----	Hexachlorocyclopentadiene	400	U
88-06-2-----	2,4,6-Trichlorophenol	400	U
95-95-4-----	2,4,5-Trichlorophenol	990	U
91-58-7-----	2-Chloronaphthalene	400	U
88-74-4-----	2-Nitroaniline	990	U
131-11-3----	Dimethylphthalate	400	U
208-96-8----	Acenaphthylene	400	U
606-20-2----	2,6-Dinitrotoluene	400	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-6-08 ¹² *DW*

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.08

Sample wt/vol: 30.4 (g/mL) G

Lab File ID: V2011426.D

Level: (low/med) LOW

Date Received: 01/10/02

% Moisture: 17 decanted: (Y/N) N

Date Extracted: 01/11/02

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/14/02

Injection Volume: 2 (uL)

Dilution Factor: 1

GPC Cleanup: (Y/N) N

pH: 5.3

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
99-09-2----	3-Nitroaniline	990	U
83-32-9----	Acenaphthene	400	U
51-28-5----	2,4-Dinitrophenol	990	U
100-02-7----	4-Nitrophenol	990	U
132-64-9----	Dibenzofuran	150	J
121-14-2----	2,4-Dinitrotoluene	400	U
84-66-2----	Diethylphthalate	400	U
7005-72-3---	4-Chlorophenyl-phenylether	400	U
86-73-7----	Fluorene	370	J
100-01-6----	4-Nitroaniline	990	U
534-52-1----	4,6-Dinitro-2-methylphenol	990	U
86-30-6----	N-Nitrosodiphenylamine (1)	400	U
101-55-3----	4-Bromophenyl-phenylether	400	U
118-74-1----	Hexachlorobenzene	400	U
87-86-5----	Pentachlorophenol	990	U
85-01-8----	Phenanthrene	630	
120-12-7----	Anthracene	400	U
86-74-8----	Carbazole	400	U
84-74-2----	Di-n-butylphthalate	400	U
206-44-0----	Fluoranthene	400	U
129-00-0----	Pyrene	400	U
85-68-7----	Butylbenzylphthalate	400	U
91-94-1-----	3,3'-Dichlorobenzidine	400	U
56-55-3----	Benzo (a) anthracene	400	U
218-01-9----	Chrysene	400	U
117-81-7----	bis (2-Ethylhexyl) phthalate	97	J
117-84-0----	Di-n-octylphthalate	400	U
205-99-2----	Benzo (b) fluoranthene	400	U
207-08-9----	Benzo (k) fluoranthene	400	U
50-32-8-----	Benzo (a) pyrene	400	U
193-39-5----	Indeno (1,2,3-cd) pyrene	400	U
53-70-3----	Dibenz (a,h) anthracene	400	U
191-24-2----	Benzo (g,h,i) perylene	400	U

(1) Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: SWL-TULSA

Contract: FORT STEWAR

F-SWMU13-S-6-08DL *12 OK*

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.08DL

Sample wt/vol: 30.4 (g/mL) G

Lab File ID: V2011427.D

Level: (low/med) LOW

Date Received: 01/10/02

% Moisture: 17 decanted: (Y/N) N

Date Extracted: 01/11/02

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/14/02

Injection Volume: 2 (uL)

Dilution Factor: 5

GPC Cleanup: (Y/N) N

pH: 5.3

CONCENTRATION UNITS:

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

108-95-2----	Phenol	2000	U
111-44-4----	bis(2-Chloroethyl)ether	2000	U
95-57-8-----	2-Chlorophenol	2000	U
541-73-1----	1,3-Dichlorobenzene	2000	U
106-46-7----	1,4-Dichlorobenzene	2000	U
100-51-6----	Benzyl Alcohol	2000	U
95-50-1-----	1,2-Dichlorobenzene	2000	U
95-48-7-----	2-Methylphenol	2000	U
108-60-1----	bis(2-Chloroisopropyl)ether	2000	U
106-44-5----	4-Methylphenol	2000	U
621-64-7----	N-Nitroso-di-n-propylamine	2000	U
67-72-1-----	Hexachloroethane	2000	U
98-95-3-----	Nitrobenzene	2000	U
78-59-1-----	Isophorone	2000	U
88-75-5-----	2-Nitrophenol	2000	U
105-67-9----	2,4-Dimethylphenol	2000	U
65-85-0-----	Benzoic Acid	5000	U
111-91-1----	bis(2-Chloroethoxy)methane	2000	U
120-83-2----	2,4-Dichlorophenol	2000	U
120-82-1----	1,2,4-Trichlorobenzene	2000	U
91-20-3-----	Naphthalene	3600	D
106-47-8----	4-Chloroaniline	2000	U
87-68-3-----	Hexachlorobutadiene	2000	U
59-50-7-----	4-Chloro-3-methylphenol	2000	U
91-57-6-----	2-Methylnaphthalene	5500	D
77-47-4-----	Hexachlorocyclopentadiene	2000	U
88-06-2-----	2,4,6-Trichlorophenol	2000	U
95-95-4-----	2,4,5-Trichlorophenol	5000	U
91-58-7-----	2-Chloronaphthalene	2000	U
88-74-4-----	2-Nitroaniline	5000	U
131-11-3----	Dimethylphthalate	2000	U
208-96-8----	Acenaphthylene	2000	U
606-20-2----	2,6-Dinitrotoluene	2000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F-SWMU13-S-6-08DL 12 *DA*

Lab Name: SWL-TULSA

Contract: FORT STEWAR

Lab Code: SWOK

Case No.: EARTHTE SAS No.:

SDG No.: 48495

Matrix: (soil/water) SOIL

Lab Sample ID: 48495.08DL

Sample wt/vol: 30.4 (g/mL) G

Lab File ID: V2011427.D

Level: (low/med) LOW

Date Received: 01/10/02

% Moisture: 17 decanted: (Y/N) N

Date Extracted: 01/11/02

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/14/02

Injection Volume: 2 (uL)

Dilution Factor: 5

GPC Cleanup: (Y/N) N

pH: 5.3

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

CAS NO. COMPOUND

Q

99-09-2-----3-Nitroaniline	5000	U
83-32-9-----Acenaphthene	2000	U
51-28-5-----2,4-Dinitrophenol	5000	U
100-02-7-----4-Nitrophenol	5000	U
132-64-9-----Dibenzofuran	2000	U
121-14-2-----2,4-Dinitrotoluene	2000	U
84-66-2-----Diethylphthalate	2000	U
7005-72-3----4-Chlorophenyl-phenylether	2000	U
86-73-7-----Fluorene	310	DJ
100-01-6-----4-Nitroaniline	5000	U
534-52-1-----4,6-Dinitro-2-methylphenol	5000	U
86-30-6-----N-Nitrosodiphenylamine (1)	2000	U
101-55-3-----4-Bromophenyl-phenylether	2000	U
118-74-1-----Hexachlorobenzene	2000	U
87-86-5-----Pentachlorophenol	5000	U
85-01-8-----Phenanthrene	450	DJ
120-12-7-----Anthracene	2000	U
86-74-8-----Carbazole	2000	U
84-74-2-----Di-n-butylphthalate	2000	U
206-44-0-----Fluoranthene	2000	U
129-00-0-----Pyrene	2000	U
85-68-7-----Butylbenzylphthalate	2000	U
91-94-1-----3,3'-Dichlorobenzidine	2000	U
56-55-3-----Benzo(a)anthracene	2000	U
218-01-9-----Chrysene	2000	U
117-81-7-----bis(2-Ethylhexyl)phthalate	2000	U
117-84-0-----Di-n-octylphthalate	2000	U
205-99-2-----Benzo(b)fluoranthene	2000	U
207-08-9-----Benzo(k)fluoranthene	2000	U
50-32-8-----Benzo(a)pyrene	2000	U
193-39-5-----Indeno(1,2,3-cd)pyrene	2000	U
53-70-3-----Dibenz(a,h)anthracene	2000	U
191-24-2-----Benzo(g,h,i)perylene	2000	U

(1) Cannot be separated from Diphenylamine