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Final Report for Interim Removal Activities at the Former Fire Training Area (HAA-01) Hunter Army Airfield, Savannah, Georgia



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Prepared by: SOLUTIONS TO ENVIRONMENTAL PROBLEMS, INC. 1006 Floyd Culler Court Oak Ridge, Tennessee 37830



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Prepared by Solutions To Environmental Problems, Inc. 1006 Floyd Culler Court Oak Ridge, Tennessee 37830

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ACRONYMS AND ABBREVIATIONS

%	percent
%D	percent difference
AST	aboveground storage tank
BFB	bromofluorobenzene
bgs	below ground surface
CCAL	continuing calibration
CCB	continuing calibration blank
CSR	compliance status report
D	diluted sample
DFTPP	decafluorotriphenylphosphine
ER	equipment rinseate
ESE	Environmental Science and Engineering
FB	field blank
ft	foot/feet
FTA	Fire Training Area
GFAA	graphite furnace atomic absorption
HAAF	Hunter Army Airfield
ICB	initial calibration blank
ICL	instrument calibration limits
IDW	investigative derived waste
IS	internal standard
IWQS	In-stream Water Quality Standard (Georgia)
J	estimated due to quality control criteria
LCS	laboratory control samples
MCL	maximum contaminant level
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MS	matrix spike
MSD	matrix spike duplicate
msl	mean sea level
NL	not listed
PCB	polychlorinated biphenyl
ppm	parts per million
PVC	polyvinyl chloride
QC	quality control
R	rejected
RPD	relative percent difference
RRF	relative response factor
RSD	relative standard deviation
SDG	sample delivery group
STEP	Solutions To Environmental Problems, Inc.
SVOCs	semivolatile organic compounds
ТВ	trip blank
U	not detected
USACE	U.S. Army Corps of Engineers
VOCs	volatile organic compounds

EXECUTIVE SUMMARY

Solutions To Environmental Problems, Inc., (STEP), under contract with the U. S. Army Corps of Engineers, Savannah District, has completed the interim removal action at the former Fire Training Area (FTA), Hunter Army Airfield (HAAF), Savannah, Georgia. HAAF is located in Chatham County, Georgia, within the southwest portion of the city of Savannah.

The former FTA is located in the northwest portion of HAAF in an area approximately 800 ft northwest of the control tower. The site, an approximately 2 acre grassy area, contained a 6,400-ft² concrete fire training pad and an 18,000-gallon aboveground storage tank (AST). The pad was covered with sand and gravel and surrounded with a concrete curb. The fire training pad held a simulated aircraft, constructed from a steel tank, which was used for training activities (LAW, May 2002). The AST was located approximately 112 ft due north of the fire training pad and was surrounded by an earthen berm approximately 2.5-ft high. Fuel was transferred to the fire training pad via an underground line that was approximately 142-ft long.

In March 1987, the U.S. Army Environmental Hygiene Agency conducted a preliminary contamination assessment that consisted of drilling and sampling the soil surrounding the fire training pad. Metals, polynuclear aromatic hydrocarbons, and phthalates were detected in the surrounding soil.

From 1990 to 1992, Environmental Science and Engineering (ESE) installed nine groundwater monitoring wells, sampled soil at six soil borings, and collected seven sediment samples to further define soil and groundwater contamination. The ESE investigation revealed that surface soils and drainage ditch sediment were impacted by volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs), and the groundwater was impacted by VOCs; however, the investigation did not fully define the extent of contamination in the soils. The results of ESE assessment are reported in *Final Significance of Contamination Report: Hunter Army Airfield Fire Training Area, Fort Stewart, Savannah Georgia* (ESE, June 1993).

In December of 1995, LAW installed four monitoring wells and 17 soil borings, and collected groundwater and soil samples. The analytical results of the soil samples confirmed the presence of VOCs and SVOCs, and delineated the extent of soil contamination. Although groundwater contamination was vertically delineated to approximately 35 ft below ground surface, the horizontal extent was not fully determined. Free product was also found in monitoring well HMW-7 (LAW, May 2002).

From November 1997 to March 1998, Omega Environmental Services and Geosciences, Inc. conducted soil remediation activities at the former FTA. The simulated aircraft structure, AST, underground fuel transmission line, concrete pad, and contaminated soil were removed. Results from the confirmatory soil samples, however, showed that soil contamination remained. Detailed information is presented in *Soil Remedial Action Report* (Omega, December 1998).

Following the soil remediation, Fort Stewart began free product recovery by activating a belt-skimmer at monitoring well HMW-7. Approximately 3 gallons of free product were removed between February 1999 and October 1999. In December 1999, six product delineation points were installed around HMW-7. The points were periodically measured for the presence of free product from December 1999 until March 2000; however, free product was not encountered in any of the points.

From July 1999 to January 2000, LAW conducted an additional investigation of the soil and groundwater contamination at the FTA in order to obtain data for a compliance status report (CSR). The investigative activities included installing soil borings and groundwater monitoring wells, conducting soil and groundwater sampling, and performing a human and ecological exposure assessment. Results showed that the extent of VOCs and SVOCs in the soil and the extent of VOCs in groundwater were not completely determined. In addition, polychlorinated biphenyls (PCBs) and pesticides were found in soil, SVOCs and metals were found in groundwater, and the extent of these contaminants was determined (LAW, May 2002).

Field investigations for *Revised Final Compliance Status Report, Former Fire Training Area (HSI Site Number 10395) at Hunter Army Airfield, Georgia* (LAW, May 2002) were completed in October and November 2001. These investigations included installing soil borings and groundwater monitoring wells; conducting soil, groundwater, and surface water sampling; and conducting a soil background study of metals. The revised final CSR stated that the extent of VOCs, SVOCs, pesticides, PCBs, and metals in the surface and subsurface soils was delineated, and the extent of SVOCs and metals in the groundwater was also delineated. VOCs in the groundwater to the north of the former fire training pad were not delineated. Sampling results showed that the soil and groundwater at the former FTA were not in compliance with Types 1 through 4 Risk Reduction Standards. During the ecological preliminary risk evaluation, no unacceptable risks to wildlife receptors were identified from contamination in groundwater and soil at the site.

STEP conducted interim removal activities from November 17, 2003, through December 04, 2003. Field activities conducted consisted of the following:

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- removing monitoring well HMW-7 and the free product skimmer installed in HMW-7,
- excavating an area 15-ft wide by 15-ft long by 8-ft deep around well HMW-7,
- installing a new monitoring well with a pre-pack screen near the location of HMW-7,
- installing a new monitoring well downgradient of HMW-7,
- collecting soil samples from the excavation at HMW-7 for VOCs analyses,
- developing the newly installed downgradient well and collecting groundwater samples from the well for VOCs analyses, and
- sampling and disposing of the investigative derived waste that was generated.

STEP removed the free product skimmer system, and then began excavation to remove the soil and monitoring well HMW-7. Excavation activities continued to a depth of 8 ft bgs and encompassed a 15-ft x 15-ft area. Soil samples were collected from each of the walls and the bottom center of the excavation. The samples were packaged, shipped to the laboratory, and analyzed for VOCs in accordance with the Work Plan. After the soil samples were collected, a free product recovery well, designated as HMW-24, was installed in the pit excavation.

A new groundwater monitoring well, designated as HMW-23, was installed downgradient from the excavation. STEP developed monitoring well HMW-23 on December 2, 2003 and collected a groundwater sample and a QC sample duplicate from the well on December 4, 2003. The laboratory did not analyze the quality control duplicate sample in accordance with contractual requirements; therefore, the well was resampled on March 2, 2004. The groundwater samples were analyzed for target compound list VOC constituents.

The analytical data were validated and, overall, were of good quality and all measurements required to satisfy the project quality control objectives (precision, accuracy, representativeness, comparability, and completeness) were met. Analytical results reported detections of 12 VOC constituents in the soil. The analytes detected were carbon disulfide, acetone, methylene chloride, 2-butanone, benzene, toluene, tetrachloroethene, ethylbenzene, isopropylbenzene, xylene, cyclohexane, and methylcyclohexane. Laboratory analyses of the groundwater sample and sample duplicate reported benzene concentrations that were in excess of both the federal and Georgia maximum contaminant levels (MCLs) as well as the Georgia In-Stream Water Quality Standard (IWQS). The parameter vinyl chloride reported a concentration greater than the federal and Georgia MCLs, but the detected concentration did not exceed the Georgia IWQS.

ES-3

1. INTRODUCTION

Solutions To Environmental Problems, Inc. (STEP), under contract with the U. S. Army Corps of Engineers (USACE), Savannah District, has completed the interim removal action at the former Fire Training Area (FTA), Hunter Army Airfield (HAAF), Savannah, Georgia. This work was accomplished in accordance with *Final Work Plan Addendum to the Revised Final Compliance Status Report Investigation for Interim Removal Activities at the Former Fire Training Area (HAA-01), Hunter Army Airfield, Savannah, Georgia* (STEP, September 2003), hereinafter referred to as the Work Plan.

2. SITE BACKGROUND

HAAF is located in Chatham County, Georgia, within the southwest portion of the city of Savannah. The installation is bounded to the north by the city of Savannah, to the east and south by residential and light commercial areas, and to the west by the Little Ogeechee River. Presently, HAAF serves as an aircraft support base for the U.S. Coast Guard and the U.S. Army military post, Fort Stewart, located 50 miles to the west.

3. SITE DESCRIPTION

This section provides a site-specific description and results of previous investigations.

3.1 FIRE TRAINING AREA SITE DESCRIPTION

The former FTA is located in the northwest portion of HAAF in an area approximately 800 ft northwest of the control tower as shown in Figure 3-1. The site, an approximately 2 acre grassy area, contained a 6,400-ft² concrete fire training pad and an 18,000-gallon aboveground storage tank (AST). The pad was covered with sand and gravel and surrounded with a concrete curb. The fire training pad held a simulated aircraft, constructed from a steel tank, which was used for training activities (LAW, May 2002). Fuels used in training exercises at the FTA were stored in an 18,000-gallon capacity steel AST located approximately 112 feet due north of the fire training pad. The AST was surrounded by an earthen berm approximately 2.5 ft high. Fuel was transferred to the fire training pad via a 142-ft long underground line.



The former FTA is bounded on the northwest and south by drainage ditches, on the east by the airfield pavement, and on the southwest by wooded land. Topographic relief in the vicinity of the site is approximately 21 feet. Elevations at the site range from 35 feet above mean sea level (msl) to 14 feet above msl (ESE, June 1993). The topography at the site slopes gently west toward the Springfield canal, which flows southwest before emptying into the Little Ogeechee River floodplain.

3.2 **PREVIOUS INVESTIGATIONS**

In March 1987, the U.S. Army Environmental Hygiene Agency conducted a preliminary contamination assessment that consisted of drilling and sampling the soil surrounding the fire training pad. Metals, polynuclear aromatic hydrocarbons, and phthalates were detected in the surrounding soil.

From 1990 to 1992, Environmental Science and Engineering (ESE) installed nine groundwater monitoring wells, sampled soil at six soil borings, and collected seven sediment samples to further define soil and groundwater contamination. The ESE investigation revealed that the surface soils and drainage ditch sediment were impacted by volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs), and the groundwater was impacted by VOCs. The investigation did not fully define the extent of contamination in the soils. The results of ESE assessment are reported in *Final Significance of Contamination Report, Hunter Army Airfield Fire Training Area, Fort Stewart, Georgia* (ESE, June 1993).

In December of 1995, LAW installed four monitoring wells and 17 soil borings, and collected groundwater and soil samples. The analytical results of the soil samples confirmed the presence of VOCs and SVOCs, and delineated the extent of soil contamination. Although groundwater contamination was vertically delineated to approximately 35 feet below ground surface (bgs), the horizontal extent was not fully determined. Additionally, free product was found in monitoring well HMW-7 (LAW, May 2002).

From November 1997 to March 1998, Omega Environmental Services and Geosciences, Inc. conducted soil remediation activities at the former FTA. The simulated aircraft structure, AST, underground fuel transmission line, concrete pad, and contaminated soil were removed. Results from the confirmatory soil samples however, showed that soil contamination remained. Detailed information is presented in *Soil Remedial Action Report* (Omega, December 1998).

Following the soil remediation, Fort Stewart began free product recovery by activating a belt-skimmer at monitoring well HMW-7, and approximately 3 gallons of free product were removed between February 1999 and October 1999. In December 1999, six product delineation points were installed around HMW-7. The points were periodically measured for the presence of free product from December 1999 until March 2000; however, free product was not encountered in any of the points.

From July 1999 to January 2000, LAW conducted an additional investigation of soil and groundwater contamination at the FTA in order to obtain data for a compliance status report (CSR). The investigative activities included installing soil borings and groundwater monitoring wells, conducting soil and groundwater sampling, and performing a human and ecological exposure assessment. Results showed that the extent of VOCs and SVOCs in the soil and the extent of VOCs in groundwater were not completely identified. In addition, polychlorinated biphenyls (PCBs) and pesticides were found in soil, and SVOCs and metals were found in groundwater, and the extent of these contaminants was determined.

Field investigations for *Revised Final Compliance Status Report, Former Fire Training Area (HSI Site Number 10395) at Hunter Army Airfield, Georgia* (LAW, May 2002) were completed in October and November 2001. These investigations included installing soil borings and groundwater monitoring wells, conducting soil, groundwater, and surface water sampling, and performing a soil background study of metals. The revised final CSR stated that the extent of VOCs, SVOCs, pesticides, PCBs, and metals in the surface and subsurface soils was delineated. The extent of SVOCs and metals in the groundwater was also delineated. VOCs in the groundwater to the north of the former fire training pad were not delineated. Results showed that the soil and groundwater at the former FTA were not in compliance with Types 1 through 4 Risk Reduction Standards. During the ecological preliminary risk evaluation, no unacceptable risks to wildlife receptors were identified from contamination in groundwater and soil at the site.

4. INTERIM REMOVAL ACTIVITIES

STEP conducted interim removal activities from November 17, 2003, through December 4, 2003. The interim removal activities conducted are described in the following list and are shown on Figure 4-1.

- Removing monitoring well HMW-7 and the free product skimmer installed in HMW-7
- Excavating a 15-ft wide by 15-ft long by 8-ft deep area around well HMW-7
- Installing a new monitoring well with pre-pack screen (HMW-24) near the site of HMW-7



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- Installing a new monitoring well (HMW-23) downgradient of HMW-7
- Collecting soil samples from the excavation at HMW-7
- Developing the newly installed downgradient well and collecting groundwater samples from the well
- Sampling and disposing investigative derived waste (IDW)

All activities were conducted in accordance with the approved Work Plan.

4.1 REMOVAL OF THE FREE PRODUCT BELT SKIMMER

Before dismantling the belt skimmer system, the free product recovery system was switched on and the system was confirmed to be operable. The belt skimmer system operated when activated. Once the utilities clearance was obtained with an underground electrical line marked on the ground, the electrical power was disconnected at its source, the power at the skimmer system was confirmed to be off, and the belt skimmer and its associated equipment components were manually removed from monitoring well HMW-7. The free product belt skimmer system, consisting of an electrical control panel, a down-hole skimmer belt with weight, two 55-gallon drums with secondary containment, and associated piping/tubing, was taken to the Directorate of Public Works office for storage.

4.2 MONITORING WELL REMOVAL, SOIL REMOVAL, AND INSTALLATION OF THE EXCAVATION PIT RECOVERY WELL

After the belt skimmer system was removed, excavation to remove the soil and monitoring well HMW-7 began. STEP personnel used a backhoe to conduct the soil excavation and well removal. Excavation around monitoring well HMW-7 began by removing the surface soil to a depth of 2 ft. Field screening of the excavated material was conducted using a photoionization detector to field screen the soil as it was removed. The field screening was used in conjunction with visual and olfactory indicators to identify petroleum contamination. Excavated material within 2 ft of ground surface did not exhibit indications of any petroleum contamination; therefore, this material was piled next to the excavation and used in backfill and site restoration.

Excavation activities continued to a depth of 8 ft bgs and encompassed a 15-ft by 15-ft area. Figure 4-1 shows the location of the excavation. Excavated material from 2 ft to 8 ft bgs was placed inside roll-off containers that were lined with plastic sheeting pending characterization to determine disposal

requirements. The demolished monitoring well, including the gravel pad, protective casing, and bollards were considered petroleum-contaminated non-hazardous construction debris and were placed in roll-off containers. The four temporary piezometers that were around the recovery well (HMW-7) were removed and placed with the debris from monitoring well HMW-7. The debris and excavated soil were disposed at the Savannah Regional Landfill.

Once the excavation had reached the dimensions required in the Work Plan, soil samples were collected from each of the walls and the bottom center of the excavation. The samples were collected using EnCore[™] samplers from the bucket of the backhoe. The samples were labeled, placed on ice, and packaged for shipment to the laboratory for VOCs analysis. Table 4-1 lists the samples collected from the excavation.

Sample Number	Date	Time	Location	Depth (ft bgs)	Field Screening (ppm)
FTA-01	11/18/03	1022	Bottom Middle	Bottom Middle 8	
FTA-02	11/18/03	1027	Middle North Wall 4		0
FTA-02D	11/18/03	1027	Middle North Wall	4	0
FTA-03	11/18/03	1034	Middle West Wall	5	0
FTA-04	11/18/03	1040	Middle South Wall	5	10
FTA-05	11/18/03	1045	Middle East Wall	4	10
FTA-05MSD	11/18/03	1045	Middle East Wall	4	10

Table 4-1 Soil Sample Locations

Note: Sample FTA-02D was a QC sample duplicate of sample FTA-02. bgs = below ground surface ft = foot/feet

ppm = parts per million

A free product recovery well, designated as HMW-24, was installed in the pit excavation at the location shown on Figure 4-1. The recovery well was constructed of a 4-inch diameter, polyvinyl chloride (PVC) 5-ft pre-packed well screen, with a bottom end-cap and 4-inch diameter PVC riser. The well was assembled and then placed upright inside the excavation. Following well placement, the bucket of the backhoe was used to backfill the excavation with gravel around the recovery well to 1.5 ft above the top of the well screen. The remaining 1.5-ft deep pit was then backfilled with stockpiled soil. The recovery well was completed with a protective surface casing with locking cap, concrete pad, and bollards around the pad to provide protection to the well. The area around the recovery well was restored to match the surrounding terrain, seeded with grasses, and mulched.

4.3 INSTALLATION OF DOWNGRADIENT MONITORING WELL

A monitoring well, designated as HMW-23, was installed downgradient from the excavation within 25 feet of the excavation's edge at the location shown on Figure 4-1. Conventional drilling techniques using hollow-stem augers were used to drill to a total depth of 15 ft and the monitoring well was installed. The well was constructed of 2-inch diameter, 10-ft long, factory-slotted PVC well screen and 2-inch diameter PVC riser. Placement of the monitoring well and well construction materials was accomplished by installing the well through the hollow stem augers with sand and bentonite tremied into the borehole around the well. A soil boring log and well completion diagram are included in Appendix I. The well was completed with a protective surface casing with locking cap, concrete pad, and bollards around the pad to provide protection to the well. The area around the well was restored to match the surrounding terrain, seeded with grasses, and mulched.

4.4 SOIL AND GROUNDWATER SAMPLING

4.4.1 Fire Training Area Soil Sampling

As discussed previously, STEP collected confirmatory soil samples from the excavation at the FTA. The samples were collected using EnCore[™] samplers (Method 5035) and analyzed for VOCs (Method 8260B). Five soil samples along with a quality control (QC) sample duplicate were collected from the excavated area at the FTA. The samples were collected, labeled, packaged, and shipped to the laboratory in accordance with the Work Plan.

4.4.2 Fire Training Area Groundwater Sampling

STEP developed monitoring well HMW-23 on December 2, 2003. Development activities consisted of surging and pumping with a pneumatic development pump, which continued until the pH, conductivity, temperature, and turbidly had stabilized. A groundwater sample and a QC sample duplicate were collected from monitoring well HMW-23 on December 4, 2003. Before the groundwater samples were collected, the monitoring well was purged of three well volumes and allowed to recharge to ensure fresh groundwater had entered the well. A grab sample was collected using a disposable bailer lowered into the well. The samples were placed in laboratory preserved containers, labeled, packaged, and shipped to the laboratory for analysis of VOCs (Method 8260B) in accordance with the approved Work Plan. The

laboratory analyzed the primary sample in accordance with standard practices and contractual requirements. The quality control duplicate sample, however, was not analyzed in accordance with contractual requirements. The laboratory's initial analysis was diluted, based on the primary sample results rather than basing dilution on initial analysis of the duplicate. After discussions with the Savannah USACE, it was decided to resample the well. Groundwater monitoring well HMW-23 was resampled on March 2, 2004. This sampling was conducted in the same manner as described for the December 4, 2003 sampling. The laboratory analytical data for both sampling events were validated and are included in Appendix III; however, the data from the December 2003 groundwater sampling were not included in the results discussed in Section 6 and Section 7 of this report.

4.5 DISPOSAL OF INVESTIGATIVE DERIVED WASTE

All IDW was disposed of properly and in accordance with state and federal regulations. The soil IDW was stored in three, plastic-lined roll-off containers at the site. The containers were flagged with construction flagging, and each container was properly labeled. A composite sample was taken from each container and analyzed for hazardous waste constituents. It was determined the soil was not hazardous; therefore, the containers were manifested by HAAF personnel, transported to the Savannah Regional Landfill, and disposed. The liquid and water IDW was stored in a drum and properly labeled. The liquid was determined to be acceptable for disposal as non-hazardous. It was then manifested by HAAF personnel, transported by HAAF

5. DATA VALIDATION

5.1 INTRODUCTION

The data validation of four water and six soil samples from the FTA at HAAF, Savannah, Georgia, was completed in March, 2004. Level III data validation was performed on 100 percent of the environmental samples collected during the remedial investigation activities. Compu Chem of Cary, North Carolina, produced all the analytical data. Samples were analyzed for VOCs using method SW-846 8260B.

The number of samples and sample delivery groups (SDGs) varied according to media as follows:

<u>Analyte Group</u>	Number of Samples	Number of SDGs
Volatile Organics-water	4	2
Volatile Organics-soils	6	1

The validated analytical Form 1s for the soil samples are in Appendix II and the Form 1s for the groundwater samples are in Appendix III.

5.2 **PROCEDURES**

The sample data were validated following the logic identified in USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (EPA, October 1999).

The data validation qualifiers applied by the reviewer were recorded in a column adjacent and to the right of the laboratory results. A data validation reason code was also added to each of the reviewer's qualifiers to provide the user with a means to identify which results were qualified and the reason for the qualifiers. Data qualifiers and data validation reason codes are defined in Section 5.5.

5.3 SUMMARY OF DATA VALIDATION FINDINGS

This data validation report reflects the data validation findings for samples associated with the former FTA at HAAF. Overall the data was of good quality and all measurements required to satisfy the project QC objectives (precision, accuracy, representativeness, comparability, and completeness) were met. Each of these measures and specific data qualifications are discussed below.

Precision: Precision is a measure of the agreement between duplicate sample measurements of the same quantity and is reflected in the relative percent difference (RPD) between spikes and the RPD for the field duplicate analysis. The overall project QC objective for precision is 90 percent or greater, and the measurement for the FTA is 91.8 percent (see the field duplicate discussion in Section 5.4.1).

Accuracy: Accuracy is measured by the results from the recovery of known amounts of compounds or elements from laboratory control samples (LCS), matrix spikes (MS), and surrogate recoveries. The overall measure of accuracy for the site was calculated by comparing the number of spike recoveries that exceeded the laboratory limits by the total number of LCSs, MSs, and surrogate spikes. Accuracy was measured at 93.7 percent.

Representativeness: The measures of representativeness – sample handling, analytical blank analysis, field blanks – were met for all sites. Designated analytical protocols were followed. Holding times were met. Overall, no major problems were identified resulting from analytical failure.

Comparability: All data were analyzed using appropriate approved methods of analysis. All data results were reported correctly and in standard units

Completeness: Completeness is the amount of valid data compared to the planned amount and is expressed as a percent of the usable data points divided by the total number of analytes for each parameter analyzed. Out of a total of 500 data points, five were rejected, resulting in a completeness of 99.0 percent.

Several sample results for the organic compounds were assigned "J" qualifiers by the laboratory, which is standard practice for these methods, because they were quantitated between the method detection limit and the reporting limit. Due to the uncertainty associated with this region of quantitation, the "J" qualifiers assigned by the laboratory were retained by the validation reviewer to indicate an estimated quantity.

Data validation summaries, which function as worksheets for the validation task, are included for each parameter in each data package. The following section highlights the key findings of the data validation for each analysis.

5.4 ANALYSIS-SPECIFIC DATA VALIDATION SUMMARIES

5.4.1 Volatile Organics by SW-846 8260B

Overall, the data are of good quality and are usable as reported by the laboratory with the exceptions noted below. The data were qualified as follows:

Holding Times/Sample Condition. The cooler temperatures at which the samples were received were recorded at 3° C, which is within the QC criteria of 4° +/- 2° C. No qualifiers were required.

Initial Calibration and Continuing Calibration. All initial and continuing calibrations (CCAL) associated with the project samples met QC criteria, with the following exceptions:

• Low relative response factors (<0.05) resulted in "R" qualifiers for nondetects and "J" for detects.

<u>SDG</u>	Samples Affected	Analyte / Analytes	Validation Qualifier
1720	All samples	acetone, 2-butanone	R
2375	04062G01	acetone	R
2375	04062G01,04062G02	2-butanone	J

• The following had CCAL percent differences (%D) that exceeded the QC limit and were qualified as "UJ."

<u>SDG</u>	Samples Affected	Analyte / Analytes	Validation Qualifier
1559	FTA-02RE, FTA-02DRE, FTA-04RE FTA-05RE	dichlorodifluoromethane	UJ
1559	FTA-01, FTA-03	chloroethane, acetone, 2-butanone, tetrachloroethene	UJ/J
1720	03338U01, 03338U01D	dichlorodifluoromethane	UJ

Blanks. Carbon disulfide, acetone, and toluene were found in the trip blank and/or equipment rinseate associated with SDG 2375. Carbon disulfide was qualified as "U" in both samples, acetone as "U" in 04062G02, and toluene as "U" in 04062G01.

Surrogate Recoveries. In SDG 1559 high surrogate recoveries for samples FTA-02RE and FTA-03 resulted in a "J" qualifier for all detects. In SDG 2375 a low recovery for the 1,2-dichloroethane-d4 surrogate for sample 04062G02 resulted in a "J" qualifier for all detects and "UJ" for all nondetects.

Matrix Spike/Matrix Spike Duplicate. The results for MS/matrix spike duplicate (MSD) performed for SDG 1720 were within the QC limits. The MS/MSD for SDG 1559 was analyzed outside the holding time, and the laboratory noted an instrument failure during the analysis. No results were reported for MS/MSD.

Laboratory Control Sample. LCS analyses were performed, and all QC criteria were met.

Field Duplicates. For the water samples in SDG 1720, the field duplicate was analyzed at a 25x dilution. Apparently, this occurred because the original sample had a result for benzene that exceeded the instrument calibration limit, and a dilution was done to quantify the result. Instead of analyzing the duplicate at a 1x dilution, the lab believed that a 25x analysis was appropriate due to the high levels of benzene. The reviewer compared the results of the two dilutions in order to calculate the RPD between

the sample results and thus qualify the compounds based on RPDs that exceeded the QC limits. The reviewer believes that if the lab had run the duplicate at a 1x dilution, since only benzene required a dilution, more RPDs would have been within the QC limits. The RPD results from SDG1720 were not used to calculate the level of precision.

In SDG 2375 all compounds except carbon disulfide met the RPD levels established for the project. No qualifiers were added to the carbon disulfide results since the compound was present in the associated equipment rinseate blank and was qualified as "U" on that basis.

<u>SDG</u>	Samples Affected	Analyte/Analytes	Validation Qualifier
1559	FTA-02 and FTA-02DRE	acetone, benzene, ethylbenzene, isopropyl benzene, xylene. cyclohexane, toluene, methylcyclohexane	J
1720	03339U01D	o-xylene, methylcyclohexane, chlorobenzene, ethylbenzene, m,p-xylene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, 1,2,4-trichlorobenzene, total xylene trichloroethene, 1,1- dichloroethene, 1,1,2-trichloro-1,2,2trifluoromethane, chloroform, carbon tetrachloride, carbon disulfide, styrene, and cis-1,2-dichloroethene	J

Internal Standards. Low internal standard (IS) area count recoveries for samples in SDG 1559 resulted in "UJ/J" for the following:

<u>SDG</u>	Samples Affected	Analyte/Analytes	Internal Standard	Validation Qualifier
1559	FTA-01	All compounds	All three ISs	UJ/J
1559	FTA-02RE	All compounds	IS 3	UJ/J
1559	FTA-03	All compounds	All 3 ISs	UJ/J

Quantitation. A number of compounds (total xylene, cyclohexane, and methylcyclohexane) in sample FTA-02RE, SDG 1559, exceeded the instrument calibration limits (ICLs). No dilution was analyzed, so the original results were accepted and qualified as "J." In SDG 1720, benzene in sample 03338U01 exceeded ICL and required a dilution. The dilution result was accepted. In SDG 2375 benzene, ethylbenzene, isopropylbenzene, and cyclohexane exceeded ICLs in both samples and required dilutions. The dilution results were accepted for both samples.

The results that were quantified between the method detection limit and the required detection limit were designated as "J," or estimated, by the laboratory. This qualifier was carried over by the reviewer.

5.5 DATA QUALIFIER DEFINITIONS

<u>Qualifier</u> <u>Definition</u>

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit or the reported analyte value was not detected above 5x or 10x the level reported in laboratory or field blanks.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. The presence or absence of the analyte cannot be verified.

Reason Code	Definition
01	Sample received outside of 4+/-2 degrees Celsius
01A	Improper sample preservation
02	Holding time exceeded
02A	Extraction
02B	Analysis
03	Instrument performance – outside criteria
03A	BFB
03B	DFTPP
03C	DDT and/or Endrin % breakdown exceeds criteria
03D	Retention time windows
03E	Resolution
04	Initial calibration results outside specified criteria
04A	Compound mean RRF QC criteria not met
04B	Individual % RSD criteria not met
04C	Correlation coefficient >0.995
05	Continuing calibration results outside specified criteria
05A	Compound mean RRF QC criteria not met
05B	Compound %D QC criteria not met
06	Result qualified as a result of the 5x/10x blank correction
06A	Method or preparation blank
06B	ICB or CCB
06C	ER
06D	ТВ
06E	FB
07	Surrogate recoveries outside control limits
07A	Sample
07B	Associated method blank or LCS
08	MS/MSD/Duplicate results outside criteria
08A	MS and/or MSD recovery not within control limits (accuracy)

Table 5-1 Data Validation Reason Codes

Reason Code	Definition
08B	% RPD outside acceptance criteria (precision)
09	Post digestion spike outside criteria (GFAA)
10	Internal standards outside specified control limits
10A	Recovery
10B	Retention time
11	Laboratory control sample recoveries outside specified limits
11A	Recovery
11B	% RPD (if run in duplicate)
12	Interference check standard
13	Serial dilution
14	Tentatively identified compounds
15	Quantitation
16	Multiple results available; alternate analysis preferred
17	Field duplicate RPD criteria is exceeded
18	Percent difference between original and second column exceeds QC criteria
19	Professional judgment was used to qualify the data
20	Pesticide clean-up checks
21	Target compound identification
22	Radiological calibration
23	Radiological quantitation
24	Reported result and/or lab qualifier revised to reflect validation findings

Tuble 5 I Duta (anauton Reason Cours (continueu)
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% = percent

%D = percent difference BFB = bromofluorobenzene CCB = continuing calibration blank DFTPP = decafluorotriphenylphosphine ER = equipment rinseate FB = field blank GFAA = graphite furnace atomic absorption ICB = initial calibration blank LCS = laboratory control sample MS = matrix spike MSD = matrix spike duplicate QC = quality control RPD = relative percent difference RRF = relative response factor RSD = relative standard deviation TB = trip blank

6. ANALYTICAL RESULTS OF SAMPLING

6.1 SOIL SAMPLING RESULTS

The analytical results for the soil samples collected from the excavation at FTA are shown in Table 6-1; validated analytical laboratory data sheets (Form 1s) and chain-of-custody forms are provided in Appendix II.

	Sample Number					
Analyte	FTA-01	FTA-02	FTA-02D	FTA-03	FTA-04	FTA-05
2-butanone	U	U	0.005J	U	0.005J	0.006J
Acetone	U	0.136J	0.033J	0.042J	0.03	0.039
Benzene	0.014J	0.036J	0.002J	0.031J	0.0007J	U
Carbon disulfide	U	U	U	0.014J	0.003J	0.003J
Cyclohexane	U	0.76J	0.01J	0.067J	0.005J	U
Ethylbenzene	0.004J	0.33J	0.011J	0.11J	0.005J	U
Isopropylbenzene	U	0.260J	0.006J	0.026J	0.006	U
Methylcyclohexane	U	1.590J	0.027J	0.093J	0.007	U
Methylene chloride	U	0.003J	0.001J	U	0.002J	0.002J
Tetrachloroethene	0.002J	U	U	0.001J	U	U
Toluene	U	0.003J	0.0009J	U	0.0007J	0.0008J
Xylene	0.032J	1.36J	0.068J	0.650J	0.035	U

Table 6-1 Soil Analytical Detected Results

Note: Sample FTA-02D is a QC sample duplicate of sample FTA-02. Units are milligrams per kilogram (mg/kg).

J = estimated due to quality control criteria

U = not detected

6.2 GROUNDWATER ANALYTICAL RESULTS

As discussed previously, the groundwater samples obtained in December 2003, although validated and presented in Appendix III, were not used. The analytical results for the samples obtained on March 2, 2004, are shown in Table 6-2. Validated analytical laboratory sheets (Form 1s) and chain-of-custody forms are provided in Appendix III.

	Sample	Sample Number Federal & Georgia		
Analyte	04062G01 (mg/L)	04062G02 (mg/L)	Drinking Water MCL (mg/L)	Georgia IWQS (mg/L)
1,2-Dichlorobenzene	0.00075	0.00077J	0.6	17.0
1,2-Dichloropropane	0.0012	0.0012J	0.005	0.039
1,4-Dichlorobenzene	0.00013J	0.00012J	0.075	2.6
2-butanone	0.0018J	0.0012J	NL	NL
Benzene	0.96D	1.3D	0.005	0.071
Chlorobenzene	0.00042J	0.0004J	0.1	21.0
cis-1,2-Dichloroethene	0.00016J	0.00016J	0.07	NL
Cyclohexane	0.026DJ	0.031D	NL	NL
Ethylbenzene	0.026DJ	0.032D	0.7	29.0
Isopropylbenzene	0.036D	0.039D	NL	NL
Methylcyclohexane	0.0067	0.0066J	NL	NL
Toluene	U	0.0008J	1.0	200.0
Trichloroethene	U	U	0.005	0.081
Vinyl chloride	0.002	0.0021	0.002	0.525

Table 6-2 Groundwater Analytical Results

Note: Sample 04062G02 is a QC sample duplicate of sample 04062G01. Bold value is greater than the federal and Georgia MCL. Shaded value is greater than the Georgia IWQS.

D = diluted sample

IWQS = in-stream water quality standard

J = estimated value due to quality control criteria

MCL = maximum contaminant level

mg/L = milligrams per liter

NL = not listed

U = not detected

As the table indicates, benzene reported concentrations that were in excess of both the federal and Georgia MCL and the Georgia In-Stream Water Quality Standard (IWQS). The parameter vinyl chloride reported a concentration equal to or greater than the federal and Georgia MCL, but the reported concentration did not exceed the Georgia IWQS. The parameters 2-butanone, isopropyl benzene, cyclohexane, and methylcyclohexane did not have an MCL or Georgia IWQS for comparison.

7. CONCLUSIONS

As stated previously, once the excavation reached the limits required in the Work Plan, a soil sample was collected from each of the walls and the bottom-center along with a duplicate sample of the middle north wall. The samples were collected using EnCore[™] samplers from the bucket of the backhoe. The samples were analyzed for TCL VOCs, and analytical results revealed detections of 12 VOC constituents

in the soil. The analytes detected were carbon disulfide, acetone, methylene chloride, 2-butanone, benzene, toluene, tetrachloroethene, ethylbenzene, isopropylbenzene, xylene, cyclohexane, and methylcyclohexane.

A groundwater sample was obtained from the new groundwater monitoring well (HMW-23) and analyzed for TCL VOC constituents. Laboratory analyses of the sample and sample duplicate reported benzene concentrations that were in excess of both the federal and Georgia MCL and the Georgia IWQS. The parameter vinyl chloride reported a concentration greater than the federal and Georgia MCL, but the reported concentration did not exceed the Georgia IWQS.

8. REFERENCES

LAW, May 2002. Revised Final Compliance Status Report, Former Fire Training Area (HSI Site Number 10395) at Hunter Army Airfield, Georgia.

ESE (Environmental Science and Engineering), June 1993. Final Significance of Contamination Report: Hunter Army Airfield Fire Training Area, Fort Stewart, Savannah, Georgia.

ESE, Inc., May 1994. Closure Plan for Hunter Army Airfield Fire Training Area.

EPA (U.S. Environmental Protection Agency), October 1999. USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.

Omega (Omega Environmental Services and Geosciences, Inc.), December 1998. Soil Remedial Action Report.

STEP (Solutions To Environmental Problems, Inc.), September 2003. *Final Work Plan Addendum to the Revised Final Compliance Status Report Investigation for Interim Removal Activities at the Former Fire Training Area (HAA-01), Hunter Army Airfield, Savannah, Georgia.*

APPENDIX I

Soil Boring Log and Well Installation Diagram

		BORI	NG LOG			PAGE L OF (
BORING/WELL NO .:		INSTALLATION: F4. ST	EWART	SIT	E: HAF	ZF
PROJECT NO .:			CLIENT/PROJECT	USAC	CE	
CONTRACTOR: 5	TEP INC		DRILLING CONTRA	ACTOR: -		
DRILLER:			BOREHOLE DIAME	TER(S):	(1 1/4)1	
START - DATE: //	1118103	TIME:07 :42	END - DATE: //	118 10	3	TIME: 08:15
DRILLING METHOD/	RIG TYPE:		COORDINATES: N		Ε	
LOGGED BY: BUR	KE ARTHUR	E-LOG (Y / N) F	ROM TO	PROTI	ECTION LEV	/EL: D
080 500 500 01 500 01 00 01	Headspace Recovery	Lithologic Descrip	tion	55 ⁵ 9	Jows - Station	Harconstruction Dolla Harconstruction Depth & CS F
		EK (BLACK) S.	AND			
	MAT 0	EZIAL		รฅ	X	-Benjonitz Seal 3.5
	× Cigi 0 H20	H TAN SAND		SA		"€ Hzo
	E L	(LGREENISH) SF	trid.	54		
		•				
	C H I					
Thin Wall Tube	R = Rock Co	ring	On-Site C/C	(Maka/M	odel):	11 10
				, MUKE/M	JUGI/•	
* Split Spoon (tub			G/C Uperat	UF·		
	OVA Instrume	at Alalia Aladalli				
 Cuttings) 	OVA INSU UNE	nr (wake/woden:				

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MONITORING WELL CONSTRUC	CTION LOG - Standard Flush Mount
WELL NO .: INSTALLATION: Ft.	STEWART SITE: HARP
PROJECT NO.:	CLIENT/PROJECT: USACE
CONTRACTOR: STERION	DRILLING CONTRACTOR: A & E
START - DATE: 11/18/04 TIME: 08:15	END - DATE: 11/18/04 TIME:09:48.
	WELL COORDINATES: N E
Elev	PROTECTIVE CSG
Height	Material / Type
GS Elev	Digmeter
$ \begin{array}{c} \text{GS Height} & \underline{\bigcirc} \text{GS} \end{array} $	Watertight O-Ring 🗌 Yes 🗌 No
Death BCS	Breathes with Vadose Zone 🗆 Yes 🗆 No
	SURFACE PAD
	Composition & Size ZXZX 9
	- RISER PIPE
	Type Sch 40 prc
	Digmeter Z"
	Totall ength (TOC to TOS)
	Ventilated Can
	Ω -Rings For Threads \Box Yes \Box No
	Composition & Amount
	Tramind Ves No
	CENTRALIZERS ET TES ET TO
	The Reader to
	Sume WYOMING
2.3	
3. 8	Setup/Hydration Time <u>Sov</u>
	The ALT Z SAND
	Type
	FLORIDA
	Source
	Ture Scil 40 PVC
15	Pierreter Z //
	$\frac{1}{2} = \frac{1}{2} = \frac{1}{2}$
5	
	I ype of Bottom Cap
Depth 0 A	BACKFILL PLUG
Borehole Dia	
	Setup/Hydration lime
	iremied 🗌 Yes 🗌 No

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APPENDIX II

Soil Samples

Analytical Form 1s and Chain-of-Custody FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET CLIENT SAMPLE NO.



FORM I VOA

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FORM 1

CLIENT SAMPLE NO.

VOLATILE	ORGANICS	ANALYSIS	DATA	SHEET
• • • • • • • • • • • •	0110121200			

FTA-01

Lab Na	ame: COMPUCHEM		Method: 8260E					
Lab Co	ode: LIBRTY (Case No.:	SAS No.:	SDG 1	No.: 1	.559		
Matriz	x: (soil/water)	SOIL	Lab Sa	mple ID:	15590	1		
Sample	e wt/vol:	4.91(g/mL) G	Lab Fi	le ID:	15590	1852		
Level	: (low/med)	LOW	Date R	eceived:	11/19	0/03		
% Mois	sture: not dec.	14.5	Date A	nalyzed:	11/25	5/03		
GC Co	lumn: EQUITY624	ID: 0.53 (mm)	Diluti	on Facto:	r: 1.0)		
Soil I	Extract Volume:	(uL)	Soil A	liquot V	olume:		(uL
	CAS NO.	COMPOUND	CONCENTRATIC (ug/L or ug/	N UNITS: 'Kg) UG/K(G	Q	Rev 0	Inal
	108 - 90 - 7	Chlorobenzene_ Ethylbenzene_ Styrene_ Bromoform Isopropyl Benz 1,1,2,2-Tetrac 1,3-Dichlorobe 1,2-Dichlorobe 1,2-Dichlorobe 1,2,4-Trichlor Xylene (total) Methyl acetate Cyclohexane Methylcyclohex	ene hloroethane nzene nzene Chloropropane obenzene ane	7	4 № 55555555555555555555555555555555555	а а а а а а а а а а а а а а а а а а а	<- 41 <	104

FORM I VOA

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CLIENT SAMPLE NO. FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET FTA-01RE Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1559 Matrix: (soil/water) SOIL Lab Sample ID: 155901 Sample wt/vol: 5.20(g/mL) G Lab File ID: 155901RA52 Date Received: 11/19/03 Level: (low/med) LOW 14.5 Date Analyzed: 11/28/03 % Moisture: not dec. GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Aliquot Volume: ____(uL Soil Extract Volume: (uL) CONCENTRATION UNITS: Q Rev Qual CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG R 14 5 U 75-71-8-----Dichlorodifluoromethane 5 U 74-87-3-----Chloromethane 5 U 75-01-4-----Vinyl Chloride 5 U 74-83-9-----Bromomethane 5 U 75-00-3----Chloroethane 5 U 75-69-4-----Trichlorofluoromethane 5 U 75-35-4-----1,1-Dichloroethene 5 U 75-15-0-----Carbon disulfide 5 U 76-13-1-----1,1,2-trichloro-1,2,2-triflu 12 67-64-1----Acetone U 14 75-09-2-----Methylene Chloride 5 U U 156-60-5-----trans-1,2-Dichloroethene U 1634-04-4-----Methyl-tert-butyl ether U

555555 75-34-3-----1,1-Dichloroethane 156-59-2----cis-1,2-Dichloroethene U 12 78-93-3----2-butanone U 555 U 67-66-3-----Chloroform 71-55-6-----1,1,1-Trichloroethane____ U 56-23-5-----Carbon Tetrachloride U 12 71-43-2----Benzene Ū 107-06-2-----1,2-Dichloroethane 5 5 79-01-6-----Trichloroethene U 5 5 5 12 U 78-87-5-----1, 2-Dichloropropane U 75-27-4----Bromodichloromethane 10061-01-5----cis-1,3-Dichloropropene___ U U 108-10-1-----4-Methyl-2-pentañone 5 108-88-3----Toluene U 10061-02-6----trans-1, 3-Dichloropropene U 5 U

10061-02-6----trans-1,3-Dichloropropene 79-00-5-----1,1,2-Trichloroethane 127-18-4-----Tetrachloroethene 591-78-6-----2-hexanone 124-48-1-----Dibromochloromethane

FORM I VOA

106-93-4----1,2-Dibromoethane

5

5 | U

5 U

12 U

U



FORM I VOA

FORM 1 THE OPERATES ANALYSIS DATA SHEET CLIENT SAMPLE NO.

FTA-02

Lab Name: COMPUCHEM	Method: 8260B		
Lab Code: LIBRTY Case No.:	SAS No.:	SDG No.: 1559	
Matrix: (soil/water) SOIL	Lab Sam	ple ID: 155902	
Sample wt/vol: 4.46(g/mL) G	Lab File	e ID: 155902B52	2
Level: (low/med) LOW	Date Re	ceived: 11/19/03	
% Moisture: not dec. 12.0	Date Ana	alyzed: 11/25/03	
GC Column: EQUITY624 ID: 0.53 (mm)	Dilutio	n Factor: 1.0	
Soil Extract Volume:(uL)	Soil Al	iquot Volume:	(uL
CAS NO. COMPOUND	CONCENTRATION (ug/L or ug/K	UNITS: g) UG/KG Q	Rev Qual
75-71-8Dichlorodifl 74-87-3Chloromethana 75-01-4Vinyl Chlori 74-83-9Bromomethane 75-00-3Chloroethane 75-69-4Chloroethane 75-15-0Carbon disul 76-13-1	uoromethane e	6 UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	

CLIENT SAMPLE NO. FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET FTA-02 Method: 8260B Lab Name: COMPUCHEM SDG No.: 1559 Lab Code: LIBRTY Case No.: SAS No.: Matrix: (soil/water) SOIL Lab Sample ID: 155902 Sample wt/vol: 4.46(g/mL) G Lab File ID: 155902B52 Date Received: 11/19/03 Level: (low/med) LOW 12.0 % Moisture: not dec. Date Analyzed: 11/25/03 Dilution Factor: 1.0 GC Column: EQUITY624 ID: 0.53 (mm) Soil Aliquot Volume: (uL Soil Extract Volume: (uL) CONCENTRATION UNITS: Q CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Revard R 16 108-90-7-----Chlorobenzene 6 U 100-41-4----Ethylbenzene 31 100-42-5-----Styrene Ū 6 75-25-2----Bromoform 6 U 98-82-8-----Isopropyl Benzene 11 79-34-5-----1,1,2,2-Tetrachloroethane Ū 6 541-73-1-----1, 3-Dichlorobenzene_ 6 U 106-46-7-----1,4-Dichlorobenzene 6 U 95-50-1-----1,2-Dichlorobenzene 6 U 96-12-8-----1,2-Dibromo-3-Chloropropane_ 6 U 120-82-1-----1,2,4-Trichlorobenzene 6 U 1330-20-7-----Xylene (total) 79-20-9-----Methyl acetate 190 TT 6 110-82-7-----Cyclohexane 100

FORM I VOA

108-87-2-----Methylcyclohexane

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CLIENT SAMPLE NO.



FORM I VOA

CLIENT SAMPLE NO.

V () [] [] [] [] [] [] [] [] [] [] [] [] []	OLONNICO MINITOI	S DATA SHEET				
Lab Name: COMPUCHEM		Method: 8260E	5	FI	"A-02D	
Lab Code: LIBRTY C	ase No.:	SAS No.:	SDG 1	No.: 1	.559	
Matrix: (soil/water)	SOIL	Lab Sa	mple ID:	15590)3	
Sample wt/vol:	4.75(g/mL) G	Lab Fi	le ID:	15590	3B52	•
Level: (low/med)	LOW	Date R	eceived:	11/19	0/03	
% Moisture: not dec.	12.0 glk	Date A	nalyzed:	11/25	5/03	
GC Column: EQUITY624	ID: 0.53 (mm)	Diluti	on Facto	r: 1.0)	
Soil Extract Volume:_	(uL)	Soil A	liquot V	olume:		(uL
CAS NO.	COMPOUND	CONCENTRATIC (ug/L or ug/	N UNITS: Kg) UG/K	G	Q	RevQuel
75 - 71 - 8	- Dichlorodifluo: - Chloromethane - Vinyl Chloride - Bromomethane - Chloroethane - Trichlorofluoro - 1,1-Dichloroeth - Carbon disulfic - 1,1,2-trichloro - Acetone - Methylene Chlo: - trans-1,2-Dichloroeth - trans-1,2-Dichloroeth - cis-1,2-Dichloroeth - Chloroform - 1,1,1-Trichloroeth - Carbon Tetrach - Benzene - 1,2-Dichloroethene - 1,2-Dichloroethene - Trichloroethene - 1,2-Dichloroethene - 2-hexanone - Dibromochloromethene - 1,2-Dibromoethene - 1,2	romethane omethane de o-1,2,2-triflu ride loroethene tyl ether hane roethene oethane loride hane oethane e opane ethane loropropene tanone loropropene tanone loropropene ene		55555555555555555555555555555555555555	מממתממממממממממממ 	

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FORM 1 V

108-87-2-----Methylcyclohexane

CLIENT SAMPLE NO.

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OLA	TILE	ORGANICS	ANALYSIS	DATA	SHEET
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FTA-02D Method: 8260B Lab Name: COMPUCHEM Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1559 Matrix: (soil/water) SOIL Lab Sample ID: 155903 Lab File ID: 155903B52 Sample wt/vol: 4.75(g/mL) G Date Received: 11/19/03 Level: (low/med) LOW % Moisture: not dec. |2.0 Date Analyzed: 11/25/03 Dilution Factor: 1.0 GC Column: EQUITY624 ID: 0.53 (mm) Soil Aliquot Volume: (uL Soil Extract Volume: (uL) CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q CAS NO. COMPOUND Ke Zul R 16 5 U 108-90-7----Chlorobenzene 12 100-41-4----Ethylbenzene Ū 100-42-5----Styrene 5 75-25-2----Bromoform 98-82-8-----Isopropyl Benzene 79-34-5-----1,1,2,2-Tetrachloroethane 5 U 4 J ה ה ה ה ה ה Ū 541-73-1-----1,3-Dichlorobenzene U 106-46-7-----1,4-Dichlorobenzene U 95-50-1-----1, 2-Dichlorobenzene 96-12-8-----1, 2-Dibromo-3-Chloropropane U U 120-82-1-----1,2,4-Trichlorobenzene U 66 1330-20-7-----Xylene (total) Ū 79-20-9-----Methyl acetate 5 13 110-82-7-----Cyclohexane



CLIENT SAMPLE NO.



FORM I VOA

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CLIENT SAMPLE NO.



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CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSI	S DATA SHEET
Lab Name, COMDUCHEM	FTA-03
Lab Name. Comportant	Method: 0200B
Lab Code: LIBRTY Case No.:	SAS No.: SDG No.: 1559
Matrix: (soil/water) SOIL	Lab Sample ID: 155904
Sample wt/vol: 4.84(g/mL) G	Lab File ID: 155904B52
Level: (low/med) LOW	Date Received: 11/19/03
% Moisture: not dec. <u>IS.8</u>	Date Analyzed: 11/25/03
GC Column: EQUITY624 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 Rwgwd
108-90-7Chlorobenzene_ 100-41-4Ethylbenzene_ 100-42-5Styrene_ 75-25-2Bromoform 98-82-8Isopropyl Benz 79-34-51,1,2,2-Tetrac 541-73-11,3-Dichlorobe 106-46-71,4-Dichlorobe 95-50-11,2-Dichlorobe 96-12-81,2-Dibromo-3- 120-82-11,2,4-Trichlor 1330-20-7Xylene (total) 79-20-9Methyl acetate 110-82-7Cyclohexane 108-87-2Methylcyclohex	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

FORM I VOA

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CLIENT SAMPLE NO.

FTA-03DL Method: 8260B Lab Name: COMPUCHEM SDG No.: 1559 Lab Code: LIBRTY Case No.: SAS No.: Lab Sample ID: 155904 Matrix: (soil/water) SOIL Sample wt/vol: 4.45(g/mL) G Lab File ID: 155904DA52 Date Received: 11/19/03 Level: (low/med) MED % Moisture: not dec. 15.8 TR Date Analyzed: 11/28/03 Dilution Factor: 1.0 GC Column: EQUITY624 ID: 0.53 (mm) Soil Aliquot Volume: 100(ul) Soil Extract Volume: (5000) (ul) CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG 0 Rev Quet 280 U 75-71-8-----Dichlorodifluoromethane 280 U 74-87-3-----Chloromethane 280 U 75-01-4-----Vinyl Chloride 280 U 74-83-9-----Bromomethane 280 U 75-00-3-----Chloroethane 280 U 75-69-4-----Trichlorofluoromethane 75-35-4-----1,1-Dichloroethene_____ 280 U 75-15-0-----Carbon disulfide 100 DJ 76-13-1-----1,1,2-trichloro-1,2,2-triflu 280 U 700 U 67-64-1----Acetone 75-09-2-----Methylene Chloride 280 U 156-60-5-----trans-1,2-Dichloroethene 280 U 1634-04-4-----Methyl-tert-butyl ether_____ 280 U 75-34-3-----1,1-Dichloroethane 280 U 280 U 156-59-2----cis-1,2-Dichloroethene 700 U 78-93-3----2-butanone 280 U 67-66-3-----Chloroform 280 U 71-55-6-----1,1,1-Trichloroethane 280 U 56-23-5-----Carbon Tetrachloride 280 U 71-43-2----Benzene 107-06-2-----1,2-Dichloroethane_____ 280 U 79-01-6-----Trichloroethene 280 U 78-87-5-----1, 2-Dichloropropane 280 U 280 U 75-27-4----Bromodichloromethane 10061-01-5----cis-1,3-Dichloropropene 280 U 700 0 108-10-1-----4-Methyl-2-pentanone 108-88-3-----Toluene 10061-02-6-----trans-1,3-Dichloropropene____ 280 U 280 U 79-00-5-----1,1,2-Trichloroethane 280 U 127-18-4-----Tetrachloroethene 280 U 591-78-6----2-hexanone 700 U 124-48-1-----Dibromochloromethane 280 U

FORM I VOA

106-93-4-----1,2-Dibromoethane

280 U

CLIENT SAMPLE NO.

Lab Na	me: COMPUCHEM		Method: 8260	В	FTA	-03DL	
Lab Co	de: LIBRTY Ca	se No.:	SAS No.:	SDG	No.: 1	.559	
Matrix	: (soil/water) S	OIL	Lab S	ample ID:	15590)4	
Sample	wt/vol:	4.45(g/mL) G	Lab F	ile ID:	15590	4DA52	
Level:	(low/med) M	ED	Date	Received:	: 11/19	/03	
% Mois	ture: not dec	15.8 MP	Date	Analyzed	11/28	3/03	
GC Col	umn: EQUITY624 I	D: 0.53 (mm)	Dilut	ion Facto	or: 1.0)	
Soil E	xtract Volume:(5000)(ul)	Soil	Aliquot V	/olume:	100(u	(1)
	CAS NO.	COMPOUND	CONCENTRATI (ug/L or ug	ON UNITS /Kg) UG/H	: (G	Q	R۰
	108 - 90 - 7	-Chlorobenzene -Ethylbenzene -Styrene -Bromoform -Isopropyl Benze -1,1,2,2-Tetrac -1,3-Dichlorobe -1,4-Dichlorobe -1,2-Dichlorobe -1,2,4-Trichlor -Xylene (total) -Methyl acetate -Cyclohexane -Methylcyclohex	ene		280 69 280 280 280 280 280 280 280 280 280 280	ע ק ק ק ק ק ק ק ק ק ק ק ק ק ק ק ק ק ק ק	R

FORM I VOA

CLIENT SAMPLE NO.

Lab Name : COMPUCHEM		Method:	8260B	FT.	A-04	
Lab Code: LIBRTY Ca	se No.:	SAS No.:	SDG	No.: 1	559	
Matrix: (soil/water) S	OIL	Li	ab Sample ID:	15590	5	
Sample wt/vol:	5.02(g/mL) G	La	ab File ID:	15590	5B52	
Level: (low/med) L	WO	Da	ate Received:	11/19	/03	
% Moisture: not dec	· · · · · · · · · · · · · · · · · · ·	Da	ate Analyzed:	11/25	/03	
GC Column: EQUITY624 I	D: 0.53 (mm)	D	ilution Facto	r: 1.0		
Soil Extract Volume:	(uL)	S	oil Aliquot V	olume:		(uL
CAS NO.	COMPOUND	CONCENTI (ug/L o:	RATION UNITS: r ug/Kg) UG/K	G	Q	Rev Quel
75 - 71 - 8	-Dichlorodifluor -Chloromethane -Vinyl Chloride -Bromomethane -Chloroethane -Trichlorofluoro -1,1-Dichloroeth -Carbon disulfic -1,1,2-trichloro -Acetone -Methylene Chlor -trans-1,2-Dichlor -trans-1,2-Dichlor -trans-1,2-Dichlor -2-butanone -Chloroform -1,1,1-Trichloro -Carbon Tetrach -Benzene -1,2-Dichloroeth -Trichloroethene -1,2-Dichloropto -4-Methyl-2-pent -Toluene -trans-1,3-Dichlor -4-Methyl-2-pent -Toluene -trans-1,3-Dichlor -4-Methyl-2-pent -Toluene -trans-1,3-Dichlor -1,1,2-Trichloroethene -1,2-Dibromoethene -1,2-Dibromoethene -1,2-Dibromoethene -1,2-Dibromoethene -1,2-Dibromoethene -1,2-Dibromoethene -1,2-Dibromoethene -1,2-Dibromoethene -1,2-Dibromoethene -1,2-Dibromoethene -1,2-Dibromoethene -1,2-Dibromoethene -1,2-Dibromoethene -1,2-Dibromoethene -1,2-Dibromoethene -1,2-Dibromoethene -1,2-Dibromoethene -1,2-Dibromoethene -1,2-Dibromoethene	romethane omethane de de o-1,2,2-tri ride loroethene hane poethane opane ethane loropropene tanone loropropene ethane ethane loropropene tanone loropropene tanone loropropene tanone loropropene tanone	e	55555555552555525555555555555555555555	00000000000000000000000000000000000000	R 16

FORM I VOA

CLIENT SAMPLE NO.

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VOLATILE	ORGANICS ANALISIS	DAIA SALLI			
Lab Name: COMPUCHEM		Method: 8260B		FTA-04	
Lab Code: LIBRTY	Case No.:	SAS No.:	SDG	No.: 1559	
Matrix: (soil/water)	SOIL	Lab Sam	mple ID:	155905	
Sample wt/vol:	5.02(g/mL) G	Lab Fil	.e ID:	155905B52	
Level: (low/med)	LOW	Date Re	eceived:	11/19/03	
% Moisture: not dec.		Date Ar	nalyzed:	11/25/03	
GC Column: EQUITY624	ID: 0.53 (mm)	Dilutic	on Facto	or: 1.0	
Soil Extract Volume:	(uL)	Soil Al	Liquot V	/olume:	(uL
CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/H	N UNITS: (g) UG/H	: KGQ	Rew Qual
108 - 90 - 7	Chlorobenzene Ethylbenzene Styrene Bromoform Isopropyl Benze 1,1,2,2-Tetrach 1,3-Dichlorober 1,2-Dichlorober 1,2-Dibromo-3-0 1,2,4-Trichloro Xylene (total) Methyl acetate Cyclohexane Methylcyclohexa	ene nloroethane nzene nzene Chloropropane obenzene		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	R 16

FORM I VOA

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CLIENT SAMPLE NO. FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET FTA-04RE Method: 8260B Lab Name: COMPUCHEM SDG No.: 1559 Lab Code: LIBRTY Case No.: SAS No.: Matrix: (soil/water) SOIL Lab Sample ID: 155905 Sample wt/vol: 4.91(g/mL) G Lab File ID: 155905RA52 Level: (low/med) LOW Date Received: 11/19/03 % Moisture: not dec. Date Analyzed: 11/28/03 GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Aliquot Volume: _____(uL Soil Extract Volume: (uL) CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG 0 Revani 45 75-71-8-----Dichlorodifluoromethane 5 U 5 5 74-87-3-----Chloromethane U 75-01-4-----Vinyl Chloride U 5 74-83-9----Bromomethane U 5 75-00-3-----Chloroethane U 5 U 75-69-4-----Trichlorofluoromethane 75-35-4-----1,1-Dichloroethene 5 U 3 5 T 75-15-0-----Carbon disulfide J U U 76-13-1-----1,1,2-trichloro-1,2,2-triflu 30 67-64-1----Acetone J 75-09-2-----Methylene Chloride 2 J 5 U 156-60-5-----trans-1,2-Dichloroethene И 1634-04-4-----Methyl-tert-butyl ether ה ה ה ה ה U U 75-34-3-----1,1-Dichloroethane U 156-59-2----cis-1,2-Dichloroethene J J 78-93-3----2-butanone U J 67-66-3-----Chloroform 71-55-6-----1,1,1,1-Trichloroethane U 5 0.7 56-23-5-----Carbon Tetrachloride U J 71-43-2----Benzene J 107-06-2-----1,2-Dichloroethane____ 5 U и 5 U 79-01-6-----Trichloroethene 78-87-5-----1,2-Dichloropropane_ 5 U 5 U 75-27-4-----Bromodichloromethane 5 U 10061-01-5----cis-1,3-Dichloropropene____ 108-10-1-----4-Methyl-2-pentanone 13 U J 108-88-3-----Toluene 10061-02-6----trans-1,3-Dichloropropene____ 0.7 J L 5 U 5 U 79-00-5-----1,1,2-Trichloroethane 5 U 127-18-4----Tetrachloroethene 13 U 591-78-6----2-hexanone U 124-48-1-----Dibromochloromethane 5 106-93-4-----1,2-Dibromoethane 5 1 U

FORM I VOA

FORM 1 CLIENT SAMPLE NO. VOLATILE ORGANICS ANALYSIS DATA SHEET

FTA-04RE Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1559 Lab Sample ID: 155905 Matrix: (soil/water) SOIL Sample wt/vol: 4.91(g/mL) G Lab File ID: 155905RA52 Date Received: 11/19/03 Level: (low/med) LOW % Moisture: not dec. Date Analyzed: 11/28/03 Dilution Factor: 1.0 GC Column: EQUITY624 ID: 0.53 (mm) Soil Aliquot Volume: _____(uL Soil Extract Volume: (uL) CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q Rev Qual U 5 U 5 J 108-90-7-----Chlorobenzene J 100-41-4----Ethylbenzene 5 U 5 U 100-42-5-----Styrene U 75-25-2----Bromoform u 98-82-8-----Isopropyl Benzene_ 6 79-34-5-----1,1,2,2-Tetrachloroethane_ 541-73-1-----1,3-Dichlorobenzene_____ Ū 5 L 5 U 106-46-7-----1, 4-Dichlorobenzene 95-50-1-----1, 2-Dichlorobenzene 96-12-8-----1, 2-Dibromo-3-Chloropropane 120-82-1-----1, 2, 4-Trichlorobenzene 5 U 5 U 5 U 5 U Ł 1330-20-7-----Xylene (total) 79-20-9-----Methyl acetate 35 Ū u 5 5 J 110-82-7-----Cyclohexane J 7 108-87-2-----Methylcyclohexane

FORM I VOA

CLIENT SAMPLE NO. FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET FTA-05 Method: 8260B Lab Name: COMPUCHEM SDG No.: 1559 Lab Code: LIBRTY Case No.: SAS No.: Lab Sample ID: 155906 Matrix: (soil/water) SOIL Sample wt/vol: 5.13(g/mL) G Lab File ID: 155906B52 Date Received: 11/19/03 Level: (low/med) LOW % Moisture: not dec. Date Analyzed: 11/25/03 Dilution Factor: 1.0 GC Column: EQUITY624 ID: 0.53 (mm) Soil Aliguot Volume: (uL Soil Extract Volume: (uL) CONCENTRATION UNITS: Q CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Rev Jund R 5 U 75-71-8-----Dichlorodifluoromethane 5 U 74-87-3-----Chloromethane 5 U 75-01-4-----Vinyl Chloride 5 U 74-83-9----Bromomethane 5559 U 75-00-3-----Chloroethane 75-69-4-----Trichlorofluoromethane U U 75-35-4-----1,1-Dichloroethene 75-15-0----Carbon disulfide 76-13-1-----1,1,2-trichloro-1,2,2-triflu 5 Ū 36 67-64-1-----Acetone J 2 75-09-2-----Methylene Chloride 5 U 156-60-5-----trans-1,2-Dichloroethene____ 5 5 U 1634-04-4-----Methyl-tert-butyl ether U 75-34-3-----1,1-Dichloroethane 5 U 156-59-2----cis-1,2-Dichloroethene_ 12 U 78-93-3-----2-butanone 5 5 U 67-66-3----Chloroform U 71-55-6-----1,1,1,1-Trichloroethane____ 5 5 5 5 5 5 5 5 5 5 2 U 56-23-5-----Carbon Tetrachloride U 71-43-2----Benzene U 107-06-2-----1,2-Dichloroethane U 79-01-6-----Trichloroethene U 78-87-5-----1,2-Dichloropropane U 75-27-4----Bromodichloromethane U 10061-01-5----cis-1,3-Dichloropropene____ U 108-10-1-----4-Methyl-2-pentanone 0.7 J 108-88-3----Toluene 5 5 5 5 U 10061-02-6----trans-1,3-Dichloropropene U 79-00-5-----1,1,2-Trichloroethane U 127-18-4-----Tetrachloroethene 12 U 591-78-6----2-hexanone 5 124-48-1-----Dibromochloromethane U 5 IJ 106-93-4-----1,2-Dibromoethane

FORM I VOA

FORM 1 VOLATILE ORGANICS ANALYSIS	C DATA SHEET	LIENT SAMPLE 1	NO .
Lab Name: COMPUCHEM	Method: 8260B	FTA-05	
Lab Code: LIBRTY Case No.:	SAS No.: SDG	No.: 1559	
Matrix: (soil/water) SOIL	Lab Sample ID	: 155906	
Sample wt/vol: 5.13(g/mL) G	Lab File ID:	155906B52	
Level: (low/med) LOW	Date Received	: 11/19/03	
% Moisture: not dec.	Date Analyzed	: 11/25/03	
GC Column: EQUITY624 ID: 0.53 (mm)	Dilution Fact	or: 1.0	
Soil Extract Volume:(uL)	Soil Aliquot	Volume:	(uL
CAS NO. COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/	: KG Q I	Rev Juch
108-90-7Chlorobenzene 100-41-4Ethylbenzene 100-42-5Styrene 75-25-2Bromoform 98-82-8I;1,2,2-Tetrach 541-73-11,3-Dichloroben 106-46-71,4-Dichloroben 95-50-11,2-Dichloroben 96-12-81,2-Dibromo-3-0 120-82-1Xylene (total) 79-20-9Methyl acetate 110-82-7Cyclohexane 108-87-2Methylcyclohexa	ene nloroethane nzene nzene Chloropropane obenzene	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	RIG

CLIENT SAMPLE NO. FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET FTA-05RE Method: 8260B Lab Name: COMPUCHEM Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1559 Lab Sample ID: 155906 Matrix: (soil/water) SOIL Sample wt/vol: 4.93(g/mL) G Lab File ID: 155906RA52 Date Received: 11/19/03 Level: (low/med) LOW Date Analyzed: 11/28/03 % Moisture: not dec. GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Aliquot Volume: _____(uL Soil Extract Volume: (uL) CONCENTRATION UNITS: Q CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Rew Jud UJ 56 5 U 75-71-8-----Dichlorodifluoromethane____ 4 5 U 74-87-3-----Chloromethane 5 U 75-01-4-----Vinyl Chloride 74-83-9----Bromomethane 75-00-3-----Chloroethane 75-69-4-----Trichlorofluoromethane 75-35-4-----1,1-Dichloroethene_____ Ĵ 75-15-0-----Carbon disulfide 76-13-1-----1,1,2-trichloro-1,2,2-triflu u 39 67-64-1-----Acetone J 75-09-2-----Methylene Chloride 2 L 5 U 156-60-5-----trans-1,2-Dichloroethene ч 5 U 1634-04-4-----Methyl-tert-butyl ether 5 U 75-34-3-----1,1-Dichloroethane 5 U 156-59-2----cis-1,2-Dichloroethene 6 J J 78-93-3-----2-butanone บบบบบบบ 67-66-3-----Chloroform U L U 71-55-6-----1,1,1-Trichloroethane U 56-23-5-----Carbon Tetrachloride U 71-43-2----Benzene U 107-06-2-----1,2-Dichloroethane U 79-01-6-----Trichloroethene U 78-87-5-----1,2-Dichloropropane_ U 75-27-4----Bromodichloromethane 5 U 10061-01-5----cis-1,3-Dichloropropene____ 13 U 108-10-1-----4-Methyl-2-pentanone T 108-88-3-----Toluene 10061-02-6----trans-1,3-Dichloropropene 0.8 J 5 U L 5 U 79-00-5-----1,1,2-Trichloroethane_____ 5 U 127-18-4-----Tetrachloroethene 591-78-6----2-hexanone 13 U 124-48-1----Dibromochloromethane 5 U 5 U 106-93-4-----1,2-Dibromoethane

FORM I VOA

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FORM 1 VOLATILE ORGANICS ANALYSIS	CLIENT SAMPLE N	IO .
Lab Name: COMPUCHEM	FTA-05RE	
Lab Code: LIBRTY Case No.:	SAS No.: SDG No.: 1559	
Matrix: (soil/water) SOIL	Lab Sample ID: 155906	
Sample wt/vol: 4.93(g/mL) G	Lab File ID: 155906RA52	
Level: (low/med) LOW	Date Received: 11/19/03	
% Moisture: not dec.	Date Analyzed: 11/28/03	
GC Column: EQUITY624 ID: 0.53 (mm)	Dilution Factor: 1.0	
Soil Extract Volume:(uL)	Soil Aliquot Volume:	(uI
CAS NO. COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q R	ier Jul
108-90-7Chlorobenzene 100-41-4Ethylbenzene 100-42-5Styrene 75-25-2Bromoform 98-82-8I,1,2,2-Tetrach 541-73-1I,3-Dichloroben 106-46-7I,4-Dichloroben 95-50-1I,2-Dichloroben 96-12-8I,2-Dibromo-3-C 120-82-1I,2,4-Trichloro 1330-20-7Xylene (total) 79-20-9Methyl acetate 110-82-7Cyclohexane 108-87-2Methylcyclohexa	5 U I 5 U 5 U 5 U 5 U 5 U 10roethane 5 110roethane 5 110roethane 5 110roethane 5 110roethane 5 110roethane 5 12ene 5 15 15 15 15 15 15 15 15 15 15 15 15 13ane 5	

FORM I VOA

Matrix Control CHEM Parts Contract: Control CHEM Parts Contract: Control CHEM Parts Contract: Control CHEM Parts Contract: Chem Parts Contract Parts Contract: Chem Parts Contract: Chem Parts Contract	2				CHAI	N-OF	-CUS	TOD	Y RE	0	RD	-				Ň	. 728	11	881
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Sample Name: Comments Comments Propression (EP) or EP(19) or	Cary, NC 27513	Airbil	No. :												Sarr	pling o	complete	Jr N (see Note	1
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2 солагулых 7 сы 8 мноза на а ламана 6 мноза на с мона 0 мноза на с мона	BOX#1 1. Surface Water 6. T	rip Blank	BOX #2	A. HCI + I	ce F	. Ice Only		BC	5# X0	E.	ttered		ă	¥# XC	H.H	Ъ,	Box #5 C.	CLP 3/90 T.	TCLP
3 Rate large a Wate 0 Other 1 a Reserved 1 State 1 a Characteria 1 a Char	2. Ground Water 7, 0			B. HNO3	9 + 10	. Other		1		U.U	nfilter	þ			M.N	edium	Ś	SW-846	
4 River Contract text Dirtson text </td <td>3. Leachate 8. M</td> <td>Vaste</td> <td></td> <td>C. NaOH</td> <td>+ Ice H</td> <td>I. NaHSO</td> <td>4 + Ice</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>L L</td> <td>*</td> <td>3</td> <td>. CWA 600-series</td> <td></td>	3. Leachate 8. M	Vaste		C. NaOH	+ Ice H	I. NaHSO	4 + Ice								L L	*	3	. CWA 600-series	
5. Sol / Sediment / Study E. Unpresend 6. Sol / Sediment / Study Box m B	4. Rinsate 9. O	ther		D. H2SO	4 + Ice I.	ZnAc+Na	OH + Ice										0	. Other	
Валити (1) Валити	5. Soil / Sediment / Skudge			E. Unpres	berved			\neg					_						
Sample ID Remarks / comments 9 characters maximum Dis (Fee Dis Dis (Fee Dis (Fee </td <td></td> <td></td> <td>Box #1</td> <td>Box #2</td> <td>Box #3</td> <td>Box #4 B</td> <td>9# X0</td> <td>-</td> <td></td> <td></td> <td>\vdash</td> <td></td> <td>-</td> <td></td> <td>F</td> <td>F</td> <td></td> <td></td> <td></td>			Box #1	Box #2	Box #3	Box #4 B	9# X0	-			\vdash		-		F	F			
(9 characters maximum) (3 characters maximum) (5 characters maximum)	Sample ID	EDOZ		9vi	Donificered	.onc.		۹۹ ال هور ۱۹۹۶	UP)				vercury	XC	На		Rem	arks / Commen	ts
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Clients Special Instructions: LEVEL 3 DATA PACKAGE Temperature 3.7 °C Clients Special Instructions: LEVEL 3 DATA PACKAGE Temperature 3.7 °C Lab: Received In Good Condition? Y or N Describe Problems, M any: Temperature By: (Sig) Date: #3 Relinquished By: (Sig) Date: #1 Relinquished By: (Sig) Mu/U Time: Low Date: 11/16/05 #2 Relinquished By: (Sig) Date: #3 Relinquished By: (Sig) Date: #1 Received By: (Sig) Mu/U Time: Date: 11/16/05 #2 Relinquished By: (Sig) Date: #3 Relinquished By: (Sig) Date: #1 Received By: (Sig) Mu/U Market Time: Date: #3 Received By: (Sig) Date: Time: Time: #1 Received By: (Sig) Mu/U Market Time: Company Name: Time: Time: Time: Time:	TRIPBLANK	4AB	6	4		7	Ŋ			_									
Clients Special Instructions: Leve L 3 DATA PACKAGC Temperature Tomperature Lab: Received in Good Condition? Y or N Describe Problems, M any: Temperature Tomperature #1 Relinquished By: (Sig) W/L/L/L/L/L/L/L/L/L/L/L/L/L/L/L/L/L/L/L		:																	
Clients Special Instructions: LEVEL 3 DATA PACKAGE Temperature 3.4 °C Lab: Received In Good Condition? Y or N Describe Problems, 41 any: Temperature 48 °C Temperature 3.4 °C *1 Relinquished By: (Sig) VM (U) (U and Date: 11/109/65 *2 Relinquished By: (Sig) Date: #3 Relinquished By: (Sig) Date: *1 Relinquished By: (Sig) VM (U) (U and Date: 11/109/65 *2 Relinquished By: (Sig) Date: #3 Relinquished By: (Sig) Date: *1 Received By: (Sig) VM (U) (U and Date: 11/109/65 *2 Received By: (Sig) Date: #3 Relinquished By: (Sig) Date: *1 Received By: (Sig) VM (U and C) Date: 11/109/65 *2 Received By: (Sig) Date: #3 Received By: (Sig) Date: *1 Received By: (Sig) Mu (U and C) Time: 7.30 Company Name: Time: 7.30 Date: 7.50 Date: #3 Received By: (Sig) Date: 7.50 Company Name: Company Name: Time: 7.30 Company Name: Time: 7.30 Company Name: Time: 7.50 Date: 7.50																		ר נ	
Lab: Received in Good Condition? Y or N Describe Problems, M any: # 1 Relinquished By: (Sig) Lu) Low Date: Mathematical By: (Sig) Lu) Low Date: Ration of the company Name: Company Name: Low Line: Low Date: Low Date: Rate: Rate: Rate: Rate: Low Company Name: Company Name: Company Name: Company Name: Company Name: Low Line: Line: Low Line:<	Clients Special Instructions: 24	J J J	9	ATA	D	CKA	<u>क</u> ह										Temp	berature \mathcal{S} , \mathcal{F}	ပ
#1 Relinquished By: (Sig) #3 Relinquished By: (Sig) Date: #3 Relinquished By: (Sig) Date: #1 Relinquished By: (Sig) Time: ///	Lab: Received in Good Condition?	r or N Des	cribe Probl	ems, M anj															
Company Name: STEPTNC Time: Location Time: Company Name: Time: Company Name: Time: #1 Received By: (Sig) Nutrine Date: 1-ff-00 #2 Received By: (Sig) Date: #3 Received By: (Sig) Date: #1 Received By: (Sig) Nutrine Time: 0 Company Name: Company Name: Time: Time: Time:	#1 Relinquished By: (Slg)	() Hian	Date: /	1/18/03	#2 Reling	ulshed By	: (Sig)				Date:		*	3 Relir	quished	By: (Sig)		Date:	
#1 Received By: (Sig) WM1 unit Date: N-G-M Date: N-G-M Bate: N-G-M Bate: N-G-M Date: N-G-M Mate: N-G-M Note: N-G-M <	Company Name: STEPT	NC	Time: /	10:30	Company	Name:					Time		0	ompai	y Name			Time:	
Company Name: Community Marme: 7,30 Company Name: Time: Company Name: Time: Time: Company Name:	#1 Received By: (Sig) WUDLINA	rille	Date:	Curly-	#2 Receiv	ed By: (S	(b)				Date		**	3 Rec	thed By:	(Sig)		Date:	
	Company Name: Com Dul her	0	Time:	1.30	Company	Name:					Time		0	ompa	y Name			Time:	
Mota (1): Complex stared ED Ague Attor Ague Computition of the Overor Priori Structure and the Arter Starte Computition of the Arter Starte	Note (2): Samples stored bu days	alter date ter	OUT MIRING	al nu exi	lfa chaig	a'	-	101E ().	All iau	aidoo	5	קום ה	esuo	yeu a	LIN 197	e years			

APPENDIX III

Groundwater Samples

Analytical Form 1s and Chain-of-Custody

CLIENT SAMPLE NO.

FORM 1 VOINTIE

VOLATILE ORGANICS ANALYSI	S DATA SHEET		1
Lab Name: COMPUCHEM	Method: 8260B	0333800	01
Lab Code: LIBRTY Case No.:	SAS No.:	SDG No.: 1720	
Matrix: (soil/water) WATER	Lab Samp	ple ID: 172001	
Sample wt/vol: 25 (g/ml) ML	Lab File	e ID: 172001B7	3
Level: (low/med) LOW	Date Rec	ceived: 12/06/03	
% Moisture: not dec	Date Ana	alyzed: 12/09/03	
GC Column: ZB-624 ID: 0.32 (mm)	Dilutior	n Factor: 1.0	
Soil Extract Volume:(uL)	Soil Ali	iquot Volume:	(uL
CAS NO. COMPOUND	CONCENTRATION (ug/L or ug/Kg	UNITS: g) UG/L Q	Renduch
75-71-8Dichlorodifluo 74-87-3Chloromethane 75-01-4Vinyl Chloride 74-83-9Bromomethane 75-00-3Chloroethane 75-69-4Trichlorofluor 75-35-4Carbon disulfi 76-13-1Carbon disulfi 76-13-1Carbon disulfi 76-13-1	romethane	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	- UJ 56,46 - UJ 56,46 - UJ 144,54 - UJ RU 44,54 - UJ RU 44,54 - UJ RU 44,54 - UJ RU 44,54 - UU JUU JUU JUU JUU

FORM I VOA

CLIENT SAMPLE NO. FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET 03338U01 Method: 8260B Lab Name: COMPUCHEM Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1720 Matrix: (soil/water) WATER . Lab Sample ID: 172001 Sample wt/vol: 25 (g/ml) ML Lab File ID: 172001B73 Date Received: 12/06/03 Level: (low/med) LOW Date Analyzed: 12/09/03 % Moisture: not dec. Dilution Factor: 1.0 GC Column: ZB-624 ID: 0.32 (mm) Soil Aliquot Volume: (uL Soil Extract Volume:_____(uL) CONCENTRATION UNITS: Q Rev Q nd CAS NO. COMPOUND (uq/L or ug/Kg) UG/L 0.5 U 0.33 J U J 106-93-4-----1,2-Dibromoethane 108-90-7-----Chlorobenzene 13 B 100-41-4----Ethylbenzene 108-38-3-----m,p-Xylene_____ 95-47-6----o-Xylene_____ 4.2 B 0.55 B 0.5 U 100-42-5----Styrene U /5-25-2-----Bromoform 98-82-8-----Isopropyl Benzene____ 0.5 U U 22 0.5 😈 44 0.5 U Ū 0.087 J 0.38 J J UJ 56 0.5 U 0.5 Ū U 4.9 B 1330-20-7-----Xylene (total)_____ 10 110-82-7-----Cyclohexane



108-87-2-----Methylcyclohexane

VOLATILE	FORM 1 CORGANICS ANALYSIS	DATA SHEET	CLIEN	T SAMPLE	NO .
Lab Name: COMPUCHEM		Method: 8260E	0	3338U01D1	L
Lab Code: LIBRTY	Case No.:	SAS No.:	SDG No.	: 1720	
Matrix: (soil/water)	WATER	Lab Sa	mple ID: 17	2001	
Sample wt/vol:	25 (g/ml) ML	Lab Fi	le ID: 17	2001DA73	
Level: (low/med)	LOW	Date R	Received: 12	/06/03	
% Moisture: not dec.		Date A	malyzed: 12	/10/03	
GC Column: ZB-624	ID: 0.32 (mm)	Diluti	on Factor:	25.0	
Soil Extract Volume:	(uL)	Soil A	Aliquot Volu	.me:	(uL
CAS NO.	COMPOUND	CONCENTRATIC (ug/L or ug/	ON UNITS: 'Kg) UG/L	Q	Rew Zuel
75 - 71 - 8	Dichlorodifluor Chloromethane Vinyl Chloride Bromomethane Chloroethane Trichlorofluoro 1,1-Dichloroeth Carbon disulfic 1,1,2-trichloro Acetone Methyl acetate Methylene Chlor trans-1,2-Dichlor trans-1,2-Dichlor trans-1,2-Dichloroeth cis-1,2-Dichloroeth Carbon Tetrach Carbon Tetrach 	<pre>comethane</pre>	2 0. 2	47 D 13 U 13 U 13 U 13 U 13 U 13 U 11 DJ 17 D 46 D 63 U 13 U	R 16 R 16

	VOLATILE	FORM 1 ORGANICS ANALYSIS	5 DATA SI	HEET	CLIF	CLIENT SAMPLE NO.		
Teb Mer	COMDUCIEM		Method	· 8260B		0333	8U01D]	
Lab Na	me: COMPOCHEM		Method	. 02000	I			
Lab Co	de: LIBRTY	Case No.:	SAS No.	:	SDG No	o.: 1'	720	
Matrix	: (soil/water)	WATER		Lab Sample	e ID: 2	17200	1	
Sample	wt/vol:	25 (g/ml) ML		Lab File	ID: 2	17200	1DA73	
Level:	(low/med)	LOW		Date Rece	ived: 3	12/06	/03	
% Mois	ture: not dec.			Date Anal	yzed:	12/10	/03	
GC Col	umn: ZB-624	ID: 0.32 (mm)		Dilution	Factor	: 25.	0	
Soil E	xtract Volume:	(uL)		Soil Aliq	uot Vo	lume:		(uL
	CAS NO.	COMPOUND	CONCE (ug/L	NTRATION U or ug/Kg)	NITS: UG/L		Q	Revaud
	106 - 93 - 4	1,2-Dibromoetha Chlorobenzene Ethylbenzene m,p-Xylene o-Xylene Styrene Bromoform Isopropyl Benz 1,1,2,2-Tetrac 1,3-Dichlorobe 1,2-Dichlorobe 1,2-Dichlorobe 1,2,4-Trichlor Xylene (total) Cyclohexane Methylcyclohex	ene hloroeth nzene nzene Chloropr obenzene ane	ane		13 8.3 27 49 9.5 8 13 32 13 22 3.8 13 22 9.8 13 28 61 24 41	U DJ DB DJB DJB DJB U D D D D D D D D D D D D D D D D D D	K 16



CLIENT SAMPLE NO. FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET 03338U01D Lab Name: COMPUCHEM Method: 8260B SDG No.: 1720 Lab Code: LIBRTY Case No.: SAS No.: Matrix: (soil/water) WATER Lab Sample ID: 172001 Lab File ID: 172002A73 Sample wt/vol: 25 (q/ml) ML Date Received: 12/06/03 Level: (low/med) LOW % Moisture: not dec. Date Analyzed: 12/10/03 GC Column: ZB-624 Dilution Factor: 25.0 ID: 0.32 (mm) Soil Aliquot Volume: ____(uL Soil Extract Volume: _____(uL) CONCENTRATION UNITS: Q CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Rev Qual 75-71-8-----Dichlorodifluoromethane 58 74-87-3-----Chloromethane 3.7 44 J 75-01-4-----Vinyl Chloride 10 J И 13 U 74-83-9----Bromomethane 75-00-3-----Chloroethane 13 U u 75-69-4-----Trichlorofluoromethane 34 75-35-4-----1,1-Dichloroethene_____ 19 J 17 Hhalss 28 75-15-0-----Carbon disulfide 76-13-1-----1,1,2-trichloro-1,2,2-triflu 84 17 67-64-1----Acetone 63 U 79-20-9-----Methyl acetate 13 U 13 U 75-09-2-----Methylene Chloride 5 LICO 156-60-5-----trans-1,2-Dichloroethene 18 1634-04-4-----Methyl-tert-butyl ether 2.1 J 13 U 75-34-3-----1,1-Dichloroethane Ja 156-59-2----cis-1,2-Dichloroethene 17 4.6 JB 78-93-3-----2-butanone 63 U 5 17 67-66-3-----Chloroform 1.7 J 71-55-6-----1,1,1,1-Trichloroethane 13 U u 17 56-23-5-----Carbon Tetrachloride 11 J 5 71-43-2----Benzene 460 13 0 107-06-2----1,2-Dichloroethane_ 17 5 27 79-01-6-----Trichloroethene J 2 Ъu 78-87-5-----1, 2-Dichloropropane 13 2.6 U 75-27-4-----Bromodichloromethane Ĵ J 10061-01-5----cis-1,3-Dichloropropene_ U U 108-10-1-----4-Methyl-2-pentanone 63 108-88-3-----Toluene 10061-02-6----trans-1,3-Dichloropropene 13 В J J 4 13 U 79-00-5-----1,1,2-Trichloroethane_ и 127-18-4-----Tetrachloroethene 78 63 U 591-78-6----2-hexanone и 124-48-1-----Dibromochloromethane 13 U U

FORM I VOA

VOLATILE	FORM 1 ORGANICS ANALYSIS	DATA SHE	EET	CLIENT	SAMPLE	NO.
Lab Name: COMPUCHEM		Method:	8260B	03	338U011	C
Lab Code: LIBRTY C	ase No.:	SAS No.:	SD	G No.:	1720	
Matrix: (soil/water)	WATER	I	Lab Sample I	D: 1720	01	
Sample wt/vol:	25 (g/ml) ML	I	Lab File ID:	1720	02A73	
Level: (low/med)	LOW	Ι	Date Receive	d: 12/0	6/03	
% Moisture: not dec.		I	Date Analyze	d: 12/1	0/03	
GC Column: ZB-624	ID: 0.32 (mm)	I	Dilution Fac	tor: 25	5.0	
Soil Extract Volume:_	(uL)	S	Soil Aliquot	Volume	è:	(uL
CAS NO.	COMPOUND	CONCENT (ug/L (FRATION UNIT or ug/Kg) UG	S: /L	Q	Revand
106 - 93 - 4	1,2-Dibromoetha Chlorobenzene Ethylbenzene m,p-Xylene o-Xylene Styrene Styrene Isopropyl Benze 1,1,2,2-Tetrach 1,3-Dichloroben 1,2-Dichloroben 1,2-Dibromo-3-C 1,2,4-Trichloro -Xylene (total) Cyclohexane Methylcyclohexa	ine	ne	13 15 52 14(24 14 14 14 14 14 14 14 14 15 55 177(36 75	3 U 2 B 2 B 3 U 3 U 3 U 3 U 3 U 3 B 3 B 3 B 5	4 44444X 244444X



No. 71046 of-Contact: 71046 one No. : \$25 787 7337 ing complete? Bor N (see Note 1) -specific (PS) or Batch (B) QC ? PS	Box #6 C. CLP 3/90 T. TCLP	um S. SW-846	W. CWA b00-series O. Other			Remarks / Comments	(see Notes 2 & 3)	-							Temperature Zi \ °C		Sig) Date:	Time:	Date:	Time:
Point-c Taleph Sampl	Box #4 H. Hgh	M. Medi	L. LOW			На	Cyanide TOC / TC O&G / TF										#3 Relinquished By: (Company Name:	#3 Received By: (Sig)	Company Name:
Y RECORD dress: 572P, Inc tipud cullep Cit icdge, 7N	X #3 F. Filtered 0	U. Unfiltered				veccruk i Db)	(MS or D VOA Pesticide PCB Herbicide Herbicide	*	×	A A					-		Date:	Time:	Date:	Time:
Client Ad	BO		aOH + Ice		Box #6	ab QC	Method No. of Bo Use for L	5 3	S B	5 3 74		-					(Sig)	•		
CHAIN-OF Area	Ke F. ke Only	+ Ice G. Other	+ ICB H. NaHSC 4 + ICB I. ZnAc+N	perved	Box #3 Box #4 1	Unfilkered Conc.	Fittered /	U L	0 1	U 1		 					#2 Relinquished By:	Company Name:	#2 Received By: (Si	Company Name:
ups Vame Tau	OX #2 A. HCI +	B. HNO3	C. NaUH D. H2SQ	E. Unpres	30X #1 Box #2	алд	Matrix Preserva	2 A	2 A	9 4		 				Problems, If any	ate: 12-5-07	ime: 1030	ate: (2 / 10 / 10 /	ime: (0051
Project N Carrier : Sampler) Blank E		27 27			-00Z 3	Date:Yea	2104 M:10	2104 17:10	2104 17.10	: /	 : /	:	 		r N Describe	and o	Mc.	ler c	Jen 1
COMPUCHEN iivision of Liberty Analytical Con 501 Madison Avenue Cary, NC 27513 1-800-833-5097	1. Surface Water 8. Trip	2. Ground Water 7. Oil	3. Leacharte 8. VVa 4. Rinsate 9. Oth	5. Soil / Sediment / Studge		Sample ID	araders maximum)	38001 11	138001D	38001 M 10					secial Instructions:	thed in Good Condition? Yo	ished By: (Slg) L See A	Name: 372PT	M By: (Slg) 2 S LLB	Name: Compul
) a d	BOX #1						(8 CH	033	E C O	033					 Clients Sp	Lab: Rece	#1 Relinqu	Company h	#1 Receive	Company



	FOF	RM 1		
VOLATILE	ORGANICS	ANALYSIS	DATA	SHEET

CLIENT SAMPLE NO.

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LA'I'LLE	ORGANICS	ANALYSIS	DATA	SHEF

ame . COMDUCIEM		Mothod	9260P		040	62G01		
alle: COMPUCHEM		Mechou.	02000	١_				I
ode: LIBRTY	Case No.:	SAS No.	:	SDG 1	No.: 2	375		
x: (soil/water)	WATER	÷	Lab Samp]	le ID:	23750	1		
e wt/vol:	25 (g/ml) ML		Lab File	ID:	23750	1A73		
: (low/med)	LOW		Date Rece	eived:	03/03	/04		
sture: not dec.			Date Anal	Lyzed:	03/03	/04		
lumn: ZB-624	ID: 0.32 (mm)		Dilution	Facto	r: 1.0)		
Extract Volume:	(uL)		Soil Alic	quot V	olume:			(uL
CAS NO.	COMPOUND	CONCEI (ug/L	NTRATION (or ug/Kg)	UNITS:) UG/L		Q	Revé	Pual
106-93-4 108-90-7 100-41-4 108-38-3	1,2-Dibromoetha Chlorobenzene Ethylbenzene m,p-Xylene	ane			0.5 0.42 33 1	U J E U	2 HR 2-	۱۶
95-47-6 100-42-5 75-25-2 98-82-8 79-34-5 541-73-1 106-46-7		ene hloroetha nzene	ane		0.5 0.5 46 0.5 0.5 0.13		NY Y Y	م) ا
95-50-1 96-12-8 120-82-1 1330-20-7 110-82-7 108-87-2	1,2-Dichlorober 1,2-Dibromo-3-(1,2,4-Trichloro Xylene (total) Cyclohexane Methylcyclohexa	nzene_ Chloropro obenzene_ ane	opane_ 		0.75 0.5 0.5 0.5 35 6.7	U U E	3 PR	> 16
	ame: COMPUCHEM ode: LIBRTY x: (soil/water) e wt/vol: : (low/med) sture: not dec. lumn: ZB-624 Extract Volume: CAS NO. 106-93-4 108-90-7 108-90-7 100-41-4 108-38-3 95-47-6 100-42-5 95-47-6 95-50-1 96-12-8 106-46-7 95-50-1 96-12-8 108-87-2 108-87-2	ame: COMPUCHEM ode: LIBRTY Case No.: x: (soil/water) WATER e wt/vol: 25 (g/ml) ML : (low/med) LOW sture: not dec lumn: ZB-624 ID: 0.32 (mm) Extract Volume:(uL) CAS NO. COMPOUND 106-93-41,2-Dibromoetha 108-90-7Chlorobenzene 100-41-4Ethylbenzene 108-38-3m,p-Xylene 108-38-3n,2-Vylene 100-42-5Styrene 75-25-2Bromoform 98-82-8I,2-2-Tetracd 541-73-1I,3-Dichlorober 106-46-71,4-Dichlorober 95-50-11,2-Dibromo-3-0 120-82-1	ame: COMPUCHEM Method: ode: LIBRTY Case No.: SAS No.: x: (soil/water) WATER e wt/vol: 25 (g/ml) : (low/med) LOW sture: not dec.	ame: COMPUCHEM Method: 8260B ode: LIBRTY Case No.: SAS No.: x: (soil/water) WATER Lab Sample e wt/vol: 25 (g/ml) ML Lab File e wt/vol: 25 (g/ml) ML Lab File : (low/med) LOW Date Rece sture: not dec.	ame: COMPUCHEM Method: 8260B ode: LIBRTY Case No.: SAS No.: SDG N x: (soil/water) WATER Lab Sample ID: e wt/vol: 25 (g/ml) ML Lab File ID: : (low/med) LOW Date Received: sture: not dec.	ame: COMPUCHEM Method: 8260B 040 ode: LIBRTY Case No.: SAS No.: SDG No.: 2 x: (soil/water) WATER Lab Sample ID: 23750 e wt/vol: 25 (g/ml) ML Lab File ID: 23750 e wt/vol: 25 (g/ml) ML Lab File ID: 23750 e wt/vol: 25 (g/ml) ML Lab File ID: 23750 e wt/vol: 25 (g/ml) ML Lab File ID: 23750 e wt/vol: 25 (g/ml) ML Lab File ID: 23750 sture: not dec.	ame: COMPUCHEM Method: 8260B 04062G01 ode: LIBRTY Case No.: SAS No.: SDG No.: 2375 x: (soil/water) WATER Lab Sample ID: 237501 e wt/vol: 25 (g/ml) ML Lab File ID: 237501A73 : (low/med) LOW Date Received: 03/03/04 sture: not dec.	ame: COMPUCHEM Method: 8260B 04062G01 ode: LIBRTY Case No.: SAS No.: SDG No.: 2375 x: (soil/water) WATER Lab Sample ID: 237501 e wt/vol: 25 (g/ml) ML Lab File ID: 237501A73 : (low/med) LOW Date Received: 03/03/04 sture: not dec.



	VOLATILE	FORM 1 ORGANICS ANALYSIS	5 DATA SH	IEET	CLIER	NT SAMPLE	NO.
Lab Name:	: COMPUCHEM		Method:	8260B		04062G01DI	
Lab Code:	: LIBRTY C	Case No.:	SAS No.:		SDG No	.: 2375	
Matrix: ((soil/water)	WATER		Lab Sample	e ID: 23	37501	
Sample wt	z/vol:	25 (g/ml) ML		Lab File 1	ID: 23	37501D2A73	3
Level:	(low/med)	LOW		Date Recei	ived: 01	3/03/04	
% Moistur	re: not dec.			Date Analy	yzed: 03	3/03/04	
GC Column	1: ZB-624	ID: 0.32 (mm)		Dilution H	Factor:	62.5	
Soil Extr	act Volume:_	(uL)		Soil Aliqu	lot Volu	ume:	(uL
CA	AS NO.	COMPOUND	CONCEN (ug/L	ITRATION UN or ug/Kg)	NITS: UG/L	Q	RevQual
10 10 10 95 10 75 98 79 54 10 95 96 12 13 11	96 - 93 - 4	1,2-Dibromoetha Chlorobenzene Ethylbenzene m,p-Xylene Styrene Styrene Isopropyl Benze -1,1,2,2-Tetrach -1,3-Dichloroben -1,2-Dichloroben -1,2-Dibromo-3-C -1,2,4-Trichloro -Xylene (total) -Cyclohexane -Methylcyclohexa	ene loroetha izene izene izene chloropro benzene			31 U 31 U 26 DJ 63 U 31 U 31 U 31 U 36 D 31 U 31 U 31 U 31 U 31 U 31 U 31 U 31 U	RRJR R R L J R IJR

FORM 1 CLIENT SAMPLE NO. VOLATILE ORGANICS ANALYSIS DATA SHEET 04062G01DL Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 2375 Matrix: (soil/water) WATER Lab Sample ID: 237501 Sample wt/vol: 25 (g/ml) ML Lab File ID: 237501D2A73 Level: (low/med) LOW Date Received: 03/03/04 % Moisture: not dec. Date Analyzed: 03/03/04 Dilution Factor: 62.5 GC Column: ZB-624 ID: 0.32 (mm) Soil Extract Volume:_____(uL) Soil Aliquot Volume: (uL CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q Rev Zual R 16 75-71-8-----Dichlorodifluoromethane_____ 31 U 31 U 74-87-3-----Chloromethane 75-01-4-----Vinyl Chloride_____ 31 U 74-83-9-----Bromomethane_____ 31 U 75-00-3-----Chloroethane 31 U 75-69-4-----Trichlorofluoromethane_____ 31 U 75-35-4-----1,1-Dichloroethene_____ 31 U 75-15-0-----Carbon disulfide 31 U 76-13-1-----1,1,2-trichloro-1,2,2-triflu 31 U 67-64-1----Acetone 160 U 79-20-9-----Methyl acetate 31 U 75-09-2-----Methylene Chloride 31 U 31 U 31 U 31 U 31 U 31 U 53 DJ 156-60-5-----trans-1,2-Dichloroethene 1634-04-4-----Methyl-tert-butyl ether 75-34-3-----1,1-Dichloroethane _______ 156-59-2----cis-1,2-Dichloroethene _____ 78-93-3----2-butanone 67-66-3-----Chloroform 31 U 71-55-6-----1,1,1-Trichloroethane_____ 31 U RV16 56-23-5-----Carbon Tetrachloride 31 U 71-43-2----Benzene 960 D 107-06-2-----1,2-Dichloroethane_____ 31 U 16 79-01-6-----Trichloroethene__ 31 U 78-87-5-----1,2-Dichloropropane 31 U 31 U 31 U 75-27-4----Bromodichloromethane 10061-01-5----cis-1,3-Dichloropropene____ 108-10-1-----4-Methyl-2-pentanone 160 U 108-88-3-----Toluene 10061-02-6-----trans-1,3-Dichloropropene____ 31 U 31 U 79-00-5-----1,1,2-Trichloroethane _____ 31 U 127-18-4-----Tetrachloroethene 31 U 591-78-6----2-hexanone 160 U 124-48-1-----Dibromochloromethane_____ 31 U

FORM I VOA



FORM 1 VOLATILE ORGANICS ANALYSIS DATA	CLIENT SAMPLE NO.
Lab Name: COMPUCHEM Meth	04062G02
Lab Code: LIBRTY Case No.: SAS N	O.: SDG No.: 2375
Matrix: (soil/water) WATER	Lab Sample ID: 237502
Sample wt/vol: 25 (g/ml) ML	Lab File ID: 237502A73
Level: (low/med) LOW	Date Received: 03/03/04
% Moisture: not dec.	Date Analyzed: 03/03/04
GC Column: ZB-624 ID: 0.32 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL
CAS NO. COMPOUND (ug	CENTRATION UNITS: /L or ug/Kg) UG/L Q Rev Qud
106-93-41,2-Dibromoethane	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

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FORM I VOA

FORM 1 CLIENT SAMPLE NO. VOLATILE ORGANICS ANALYSIS DATA SHEET 04062G02DL Lab Name: COMPUCHEM Method: 8260B Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 2375 Matrix: (soil/water) WATER Lab Sample ID: 237502 Sample wt/vol: 25 (g/ml) ML Lab File ID: 237502D273 Level: (low/med) LOW Date Received: 03/03/04 % Moisture: not dec. Date Analyzed: 03/04/04 GC Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 62.5 Soil Extract Volume: _____(uL) Soil Aliquot Volume: (uL CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L CAS NO. COMPOUND Q Rev Znul 75-71-8-----Dichlorodifluoromethane R 16 31 U 74-87-3-----Chloromethane 31 U 75-01-4-----Vinyl Chloride_____ 31 U 74-83-9-----Bromomethane_____ 31 U 75-00-3-----Chloroethane 31 U 75-69-4-----Trichlorofluoromethane 31 U 75-35-4-----1,1-Dichloroethene_____ 31 U 75-15-0-----Carbon disulfide 31 U 76-13-1-----1,1,2-trichloro-1,2,2-triflu 31 U 67-64-1-----Acetone 160 U 79-20-9-----Methyl acetate 31 U 75-09-2-----Methylene Chloride 31 U 156-60-5-----trans-1,2-Dichloroethene 31 U 1634-04-4-----Methyl-tert-butyl ether 31 U 75-34-3-----1,1-Dichloroethane 31 U 156-59-2----cis-1,2-Dichloroethene 31 U 78-93-3-----2-butanone 160 U 67-66-3----Chloroform 31 U 71-55-6-----1,1,1-Trichloroethane 31 U 56-23-5-----Carbon Tetrachloride R 16 31 U 71-43-2----Benzene 1300 107-06-2-----1,2-Dichloroethane_____ 31 Ū R 16 79-01-6-----Trichloroethene 31 U 78-87-5-----1,2-Dichloropropane_____ 31 U 75-27-4----Bromodichloromethane 31 U 10061-01-5----cis-1,3-Dichloropropene 31 U 108-10-1-----4-Methyl-2-pentanone 160 U 108-88-3-----Toluene 10061-02-6----trans-1,3-Dichloropropene___ 31 U 31 U 79-00-5-----1,1,2-Trichloroethane 31 U 127-18-4-----Tetrachloroethene 31 U 591-78-6----2-hexanone 160 U 124-48-1-----Dibromochloromethane 31 U FORM I VOA

VOLATILE	FORM 1 ORGANICS ANALYSIS	5 DATA SHEET	CLIEN	T SAMPLE	NO.
Lab Name: COMPUCHEM		Method: 8260B		04062G02	DL
Lab Code: LIBRTY	Case No.:	SAS No.:	SDG No.	: 2375	Ark
Matrix: (soil/water)	WATER	Lab Sa	mple ID: 23	7502	
Sample wt/vol:	25 (g/ml) ML	Lab Fi	le ID: 23	7502D273	
Level: (low/med)	LOW	Date R	eceived: 03	/03/04	
% Moisture: not dec.		Date A	nalyzed: 03	/04/04	
GC Column: ZB-624	ID: 0.32 (mm)	Diluti	on Factor:	62.5	
Soil Extract Volume:	(uL)	Soil A	liquot Volu	.me:	(uL
CAS NO.	COMPOUND	CONCENTRATIC (ug/L or ug/	N UNITS: (Kg) UG/L	Q	Rev Qual
106 - 93 - 4	1,2-Dibromoetha Chlorobenzene Ethylbenzene m,p-Xylene Styrene Styrene Isopropyl Benze 1,1,2,2-Tetracl 1,3-Dichlorober 1,2-Dichlorober 1,2-Dibromo-3-e 1,2,4-Trichlore Xylene (total) Cyclohexane Methylcyclohexe	ane		31 U 31 U 32	$\begin{array}{c} R \\ R \\ 16 \\ R \\ 16 \\ R \\ 16 \\ 16 \\ R \\ 16 \\ 16$

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$\begin{array}{c c c c c c c c c c c c c c c c c c c $		Phone: 0	Cary, NC 27513 19-379-4100 Fax 919-379-4040	Airbill No. Sampling Complete? Y or N	90
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$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Hoyel Gullez C	F Sampling Location	AAF		W - Surface water O - Soil/Sediment
$\frac{2}{4g_{1}-7g_{2}} + \frac{1}{4g_{1}-7g_{2}} $	Astate TN Zip 3783	30 Turnaround time NEXT-TAV			B - Trip Blank 1 - Rinsate
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Field ID Date Time Matrix Dottes $\exists a \ bb \ b \ b \ c \ c \ c \ c \ c \ c \ $	No		204 204		
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N: Date/Time: Received by: Date/Time: Date/Time: or N If yes, where? Custody Seal(s) intact? On Ice? On Ice? On Ice?	1. Louy Aleren	1 Date/Time: 3/2/64/, 1600	Received by: MAND MOR J. BUINT	Date/Time: $3/3/D_{H}$	17:15AM.
or N If yes, where? Custody Seal(s) intact γ or N On Ice? O or N Cooler Temp: $3, 7 \circ C$. 0	Date/Time:	Received by:	Date/Time:	
	or N If yes, where?	Custody	V Seal(s) intact? (Y) or N On Ice? (Y) or N	Cooler Temp:	3. 7 °C
APPENDIX IV

Waste Manifest

Atlantic	N-HAZARDOUS WAS	TE MANIFEST		
Waste Services				
Generator Name: Hunter Arrive	Au Sield (FTP)	(HAA-OI) USEPAID#	GA4210	022733
Billing Address: STEP INC				
Site Address: 1006 Floud Cul	ler Court Dak	ridae Teri	essee 3	7830
county of Origin: Chatham		J ' Phone:	865-481-	7837
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	20 yds	33602	yd	Roll-off
	0		0	
Special Handling Instructions	2			
I hereby certify that the above described m applicable state law, have been fully and a for transportation according to applicable re	atenals are non-hazardous ccurately described, classifi agulations.	wastes as defined by ed and packaged an	IO CFR Part 261 or d are in proper condi	r any Ition 1-22-04
I hereby certify that the above described m applicable state law, have been fully and a for transportation according to applicable re <u>Angu</u> Eagon Generator Authorized Agent Name	atenals are non-hazardous ccurately described, classifi agulations.	wastes as defined by ed and packaged an <u>Ornon</u> da Signature	IO CFR Part 261 oi d are in proper condi	r any Ition /- 22 - 04 Date Shipped
I hereby certify that the above described m applicable state law, have been fully and a for transportation according to applicable re <u>Angle Eason</u> Generator Authorized Agent Name TRANSPORTER	atenals are non-hazardous ccurately described, classifi agulations.	wastes as defined by ed and packaged an <u>Oma-</u> da Signature	$10 CFR Part 261 ofd are in proper condi-5 \sigma $	r any ition /- 22 - 04 Data Shipped
I hereby certify that the above described m applicable state law, have been fully and a for transportation according to applicable re Angle Eason Generator Authorized Agent Name TRANSPORTER Transporter Name:	atenals are non-hazardous ccurately described, classifi egulations.	wastes as defined by ed and packaged an <u>Orna: A</u> Signature <i>Dot#</i>	$\frac{100 \text{ CFR Part 261 of dare in proper conditions}}{\frac{9954/3}{15}}$	r any tion 1 - 22 - 04 Data Shipped
I hereby certify that the above described m applicable state law, have been fully and a for transportation according to applicable re <u>Angl</u> Eason Generator Authorized Agent Name TRANSPORTER Transporter Name: <u>Manual</u> Address: <u>Panin</u>	atenals are non-hazardous ccurately described, classifi agulations.	wastes as defined by ed and packaged an <u>Qrnca</u> Signature)	$10 CFR Part 261 ofd are in proper condi-c \frac{9954/3}{15}$	rany tion l - 22 - 04 Data Shipped
I hereby certify that the above described m applicable state law, have been fully and a for transportation according to applicable re <u>Angl</u> Eason Generator Authorized Agent Name TRANSPORTER Transporter Name: <u>Manual</u> Address: <u>Part 1</u> Manual Address: <u>Part 1</u> Manual Address <u>Part 1</u> Manual Address <u>Part 1</u> Manual Address <u>Part 1</u> Manual Address <u>Manual Address</u> <u>Manu</u>	atenals are non-hazardous ccurately described, classifi agulations.	wastes as defined by ed and packaged and <u>Orna</u> : <u>A</u> Signature Truck Number: <u>John</u> Signature	90 CFR Part 261 of d are in proper condi- c $\frac{9954/3}{15}$	r any Ition /- 22 - 04 Date Shipped
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/	Atlantic		Time In			
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Atlantic	N-HAZARDOUS WAS	STE MANIFEST	j.	
GENERATOR				
Generator Name: Hurter Arrive Au	Geld (FTP-HAA	-OI) US EPA ID#	GA42100	22733
Billing Address: STEP TNC				
Sile Address: 1006, Floyd Cu!	ler Court Dak	Gridge Teni	125528 37	830
County of Origin: <u>Chatham</u>	,	Phone	865-481-	7827
			000 101	1001
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	20 yds	33602	ud	Poll-off
	Ç			
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Special Handling Instructions		· · · · · · · · · · · · · · · · · · ·	25	
Special Handling Instructions		#3	, 75	L
Special Handling Instructions	enals are non-hazardous w	astes as defined by	0 CFR Part 261 or	any
Special Handling Instructions I hereby cartify that the above described mate applicable state law, have been fully and accu for transportation according to applicable regu	enals are non-hazardous w urately described, classifier ulations.	astes as defined by d and packaged and	0 CFR Part 261 or Ire in proper conditi	any on
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Special Handling Instructions I hereby cartify that the above described mate applicable state law, have been fully and accu- for transportation according to applicable regu- <u>Argi Eason</u> Generator Authorized Agent Name ANSPORTER Transporter Name: <u>ATZANTIC</u> Address: <u>PINE MEHD</u> <u>Michael Scillicum</u> Name of Authorized Agent POSAL FACILITY Site Name: <u>Michael</u> Address: <u>FINE</u>	MASTE aw ICD S	Truck Number: Manual DOT#: Truck Number: Manual M	995-113 17 17 17 17 17 17 17 17 17 17	any on -22-04 Date Shipped (-4 1-22-05 Date Delivered 4-31407
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RG - Savennah Regional Landfill RA Cliffor Blud	1100017 0172072004 Date: 0172072004 Time: 13:34
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Trailer: Origin: 88 (Soverber	Tare: 32540 Lbs 91 Net: 52360 Lbs
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Atlantic	NON-HAZARDOUS WAS	TE MANIFEST	i.	
ENERATOR				·.
Generator Name Hunter Hrmy	HITTIE Id (FTP-HI	AA-OVUS EPA ID#:	GA4210	022133
Billing Address: STEP, INC,				
Site Address: 1006 Floyd	Culler Court, Oc	Kridge, ler	nessee 3	7830
County of Origin: <u>(hat ham</u>		Phone:	865-481-	1837
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	15 XO yds	33602	yd	Roll-off
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I hereby certify that the above described applicable state law, have been fully and for transportation according to applicable Apple Eason	d materials are non-hazardous d accurately described, classifi e regulations.	wastes as defined by ad and packaged and	O CFR Part 261 or tre in proper cond	any tion 1-23-04
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Atlantic N	ON-HAZARDOUS WAS	STE MANIFEST		
GENERATOR				
Generator Name: HUNTER ARMY	AIRFIELD	US EPA ID#:	1 A 47.1002	2/33
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Site Address: FIRE TRAINING	AZEA			
County of Origin:NATHAM		Phone:	865-481-	2837
Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
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I hereby certify that the above described mapplicable state law, have been fully and ad for transportation according to applicable re <u>Ana</u> <u>Eason</u> Generator Authorized Agent Name	aterials are non-hazardous courately described, classific gulations.	wastes as defined by a and packaged and ad and packaged and <i>Each</i>	CFR Part 261 or e in proper condit	any Ion -23-04 Date Shipped
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I hereby acknowledge receipt of the above of Name of Authorized Agent	lescrited materials.	Signatura	nus (1 23 03 Date Received
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RS - Savannah Regional Landfill 84 Clifton Blvd. Port Wentworth, GA 31408	- مر	Date: 01/23/20 Time: 14:52	04 14:56
Mon-Fri /AM-D-M Sat /An-12Ph			
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