HAFB 2004

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May 27, 2004

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NMED Hazardous
Waste Bureau

Ms. Sandra Martin
NMED/Hazardous Waste Bureau
2905 Rodeo Park Drive East
Santa Fe, New Mexico 87505-6303

Subject: Drone Crash Site Soil Removal Report
White Sands National Monument, New Mexico
USACE – Omaha District
Contract No. DACA45-03-D-0023, DO No. 2
Bhate Project No. 9030232.03.01

Dear Ms. Martin,

Please find enclosed four copies of the *Drone Crash Site Soil Removal Report – White Sands National Monument, New Mexico* for your review.

Bhate Environmental Associates, Inc., appreciates the opportunity to provide services to the U.S. Army Corps of Engineers, Holloman Air Force Base and the State of New Mexico. If you have any questions or need additional assistance, please feel free to contact me at (970) 216-7819 or our Birmingham office at (205) 918-4000.

Cordially,
BHATE ENVIRONMENTAL ASSOCIATES, Inc.

Frank Gardner, P.G.
Program Manager

cc w/ enclosures: Cornelius Amindyas (NMED/HWB)
Steve Jetter (NMED/HWB)
James Harris (USEPA/Region 6)

BHATE ENVIRONMENTAL, INC.

LETTER OF TRANSMITTAL

1608 13th Avenue South • Suite 300
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Phone (205) 918-4000 • Fax (205) 918-4050

DATE	JOB NO
05/27/04	9030232.03.01

ATTENTION: Mr. Tom Zink

RE: Drone Crash Site Soil Removal Report
White Sands National Monument, NM

TO: US Army Corps of Engineers
106 South 15th Street
Omaha, Nebraska 68102-1618

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CC: Atul M. Salhotra (1)
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SOIL REMOVAL

REPORT

DRONE CRASH SITE

RECEIVED
JUN 2004
NMED Hazardous
Waste Bureau

Holloman Air Force Base
New Mexico

May 2004

Contract No. DACA45-03-D-0023
Task Order No. 001, WAD 3
BHATE Project No. 9030232.03

Headquarters, Air Combat Command
Langley Air Force Base, Virginia

49 CES/CEV
Holloman Air Force Base, New Mexico

SOIL REMOVAL REPORT
DRONE CRASH SITE
WHITE SANDS NATIONAL MONUMENT
HOLLOMAN AFB, NEW MEXICO

Prepared For:

49 CES/CEV
Holloman Air Force Base
New Mexico

Under Contract To:

U.S. Army Corp of Engineers
Omaha District
Under Contract No. DACA45-03-D-0023
Task Order No. 1

Prepared By

Bhate Environmental Associates, Inc.
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Bhate Project Number: 9030232.03

May 2004

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SOIL REMOVAL REPORT
DRONE CRASH SITE
WHITE SANDS NATIONAL MONUMENT
HOLLOMAN AFB, NEW MEXICO

REVIEW SHEET

This report has been reviewed and approved by:

Jerry Pelfry Site Manager	Signature	Date: May 27, 2004
Scott Dolvin, P.G. Senior Geologist	Signature	Date: May 27, 2004
Frank Gardner, P.G. Senior Project Manager	Signature	Date: May 27, 2004

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SOIL REMOVAL REPORT
DRONE CRASH SITE
WHITE SANDS NATIONAL MONUMENT
HOLLOMAN AFB, NEW MEXICO

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ACRONYMS AND ABBREVIATIONS

AFB	Air Force Base
amsl	Above mean sea level
BDL	Below detection limit
bgs	Below ground surface
Bhate	Bhate Environmental Associates, Inc.
CEE	Civil Engineering Environmental
CES/CEV	Civil Engineering Squadron/Combat Engineer Vehicle
cpm	Counts per minute
COC	Chain-of-custody
DCG	Disaster Control Group
DCS	Drone Crash Site
°F	Degrees fahrenheit
DP	Direct push
DPT	Direct Push Technology
DQCR	Daily Quality Control Report
DQOs	Data Quality Objectives
FD	Field Duplicate
FID	Flame Ionization Detector
ft	Feet
ft/yr	Feet per year
GC	Gas chromatogram
GPS	Global Positioning System
FW	Fighter Wing
HAFB	Holloman Air Force Base
HASP	Health and Safety Plan
hr	Hour
mg/kg	Milligrams per kilogram
MS	Matrix Spike
MSD	Matrix Spike Duplicate
MXG	Maintenance Group
NFA	No Further Action
NMED	New Mexico Environment Department
OVA	Organic vapor analyzer
%	Percent
PCS	Petroleum contaminated soils
PID	Photo Ionization Detector
QA/QC	Quality assurance/quality control
QAPP	Quality Assurance Project Plan
RCRA	Resource Conservation and Recovery Act
SB	Soil boring
sec	Second

ACRONYMS AND ABBREVIATIONS (CONTINUED)

SOP	Standard Operating Procedure
SSL	Soil Screening Level
SVOC	Semi-volatile organic compounds
TPH	Total Petroleum Hydrocarbons
USACE	United States Army Corps of Engineers
USDOI	United States Department of Interior
USEPA	United States Environmental Protection Agency
UXO	Unexploded ordnance
VOC	Volatile Organic Compounds
WSMR	White Sands Missile Range
WSNM	White Sands National Monument
WWTP	Wastewater Treatment Plant
yr	Year

1 INTRODUCTION

Bhate Environmental Associates, Inc. (Bhate) was retained by the U.S. Army Corps of Engineers (USACE), under contract DACA45-03-D-0023, Task Order No. 1, to conduct a field investigation and soil excavation at the Drone Crash Site (DCS), located at the White Sands National Monument (WSNM), New Mexico (Figure 1). This report provides documentation of the activities and sample evaluations to meet the New Mexico Environment Department (NMED) requirements of the DCS for the removal of soils contaminated with petroleum hydrocarbons. The primary objective of the investigation and removal was to delineate and remove, through excavation, and properly dispose of petroleum-contaminated soils (PCS) at the site. During this process, required data was collected to support the closure of the site based on guidance from the NMED. The ultimate objective is to achieve approval for site closure from NMED.

All investigation and excavation activities were performed under the Special Use Permit issued by the WSNM through the National Park Service of the United States Department of Interior (USDOI), authorizing Holloman Air Force Base (HAFB) personnel and its sub-contractors to enter the restricted areas and disturb surface and sub-surface soils as required (Appendix A).

1.1 Project Background

The site is an area of the White Sands National Monument where a QF-4 Drone crashed on February 10, 2003 (Figure 2). The 49th Fighter Wing (FW) Disaster Control Group (DCG), 49th Civil Engineering Squadron (CES), 49th Civil Engineering Environmental (CEE), and Base Fire Department initially responded to the crash at the request of the US Army's White Sands Missle Range (WSMR). On May 5 and 7, 2003, 49th Maintenance Group (MXG) Crash and Recovery personnel from HAFB reported to the site and performed the removal action of large debris for temporary storage at HAFB. Photographs, provided by the 49th MXG, of the initial site visit are found in Appendix B. Prior to the initial site investigation by Bhate personnel, all large debris had been removed.

The crash site location, in respect to the WSNM property boundaries, is denoted in Figure 2. The drone was carrying a full load of fuel at the time of the crash. At the time of the impact, the drone had between 1,000 and 1,500 gallons of jet fuel onboard; there were no ordnances onboard. From the impact, it is probable that the majority of the fuel had incinerated upon impact. As discussed in the crash report (Appendix C), other than the fuel component as potential contaminants to the crash area, the only other potential source for impacting the soils was the aircraft debris a fixed low level radioactive material. Frame structural and engine components were comprised of a specialized alloy of magnesium and thorium. Thorium is a naturally occurring low level fixed radioisotope in the parts. As a fixed radioisotope, there is no mechanism for transfer to the surrounding soils.

The scope of the project was to determine the vertical extent of petroleum hydrocarbon contamination and to excavate all of the contaminated soil and debris left behind from the crash.

1.2 Project Objectives

The overall objective of the removal action was to remediate contaminated soils to the NMED TPH level and the soil screening level (SSL) and restore the site to the request of WSNM. This objective was met through the completion of the following tasks:

- Low level radiologically contaminated magnesium-thorium alloy debris was identified and removed.
- Petroleum hydrocarbon (jet fuel) contaminated soils were excavated.
- Verification of PCS removal was accomplished through soil samples and analysis.
- Any threat, immediate and long term, to human health and/or the environment was minimized through the removal of crash debris and contaminated soils.
- The potential for future threat, release of hazardous materials, or degradation and/or daughter products was mitigated through the removal of crash debris and contaminated soils.

1.3 Removal Requirements

The contaminants of concern for the crash site are total petroleum hydrocarbons, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, and low level radiological material. The objective of the investigation and excavation activities presented in this removal report was to remove contaminated soil from the drone crash site in support of the removal effort having the site at or below an acceptable risk in accordance with the NMED SSL found in the NMED guidance document Technical Background Document for Development of Soil Screening Levels (NMED, 2000).

Data collected as a result of field screening were evaluated based upon the data quality objectives (DQO's) of the project. The results from the offsite laboratory confirmation samples from the sidewalls of the excavation were evaluated to determine whether excavation activities at the site had removed the contaminated soil to the point where there was an acceptable risk due to exposure at the site. If the completed evaluation indicated an acceptable risk, then excavation was no longer required and the site was considered to be of an acceptable risk. In order to meet the requirements for removal of the COCs, all unexploded ordnance (UXO) and low-level radioactive debris shall be removed and the PCS remediated to below the allowable limit for TPH of 940 milligrams per kilogram (mg/kg).

Based on the direction provided by NMED, pertaining to the remediation of petroleum-impacted sites at HAFB, a total petroleum hydrocarbon (TPH) screening level of 940 mg/kg was used to

evaluate the data provided by the offsite analytical laboratory. The action level for the removal of PCS is 940 mg/kg and is found as the Residential Direct Exposure Limit for jet fuels, listed in Table 2 of the NMED *TPH Screening Guidelines*, June 24, 2003 (Appendix D). Soils were removed until the sampled material indicated TPH levels below the action level.

1.4 Evaluation of VOCs, SVOCs and metals

Tables extracted from the NMED guidance document containing the SSLs are provided in Appendix E. Each collected soil sample laboratory data was further evaluated against the SSLs. For any VOCs, SVOCs, or metals that were detected in a soil sample, the concentration was evaluated against the screening levels provided in the NMED guidance document *Technical Background Document for Development of Soil Screening Levels* (NMED, 2000). Excavation of soils continued until the soil sampled was below the contaminant SSL.

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2 SITE DESCRIPTION

2.1 White Sands National Monument Description

White Sands National Monument is located in the south central portion of New Mexico approximately five miles southwest of HAFB (Figure 3). WSNM is located in Otero County. The park covers 143,733 acres and is visited annually by over 500,000 people. The monument ranges in elevation from 3,890 feet (ft) to 4,116 ft above mean sea level (amsl), and occupies approximately 115 square miles of the 275 square mile physiographic region. The portion that is not occupied by the monument is military owned and is not open to the public.

The sand dune field is a very dynamic environment; dunes can migrate up to 30 feet per year (ft/yr). The sand is derived from pure gypsum that originates in the western portion of the monument from an ephemeral lake or playa with a very high mineral content. As the water evaporates from the lake, the mineral concentrations in solution increase until the water is saturated. Once the water is saturated, mineral crystals begin to precipitate from the remaining brine and are left behind as evaporate deposits. The deposits are then transported by wind to form the dunes.

2.1.1 Physiography

The WSNM is located within the Sacramento Mountains Physiographic Province on the western edge of the Sacramento Mountains (Figure 3). The region is characterized by high tablelands with rolling summit plains; cuesta-formed mountains dipping eastward and of west-facing escarpments with the wide bracketed basin forming the basin and range complex. WSNM is located at a mean elevation of approximately 4,000 ft amsl. The site is located in the Tularosa Sub-basin which is part of the Central Closed Basins. The San Andreas Mountains bound the basin to the west (about 30 miles) with the Sacramento Mountains approximately 10 miles to the east. At its widest, the basin is about 60 miles east to west and stretches approximately 150 miles north to south.

2.1.2 Surface Water

The Tularosa Basin contains all of the surface flow in its boundaries. One of the lowest points in the Tularosa Basin is a large playa called Lake Lucero. Once water enters Lake Lucero it either sinks into the ground or pools in low spots. Lake Lucero occasionally fills with water and as the water evaporates dissolved gypsum is deposited on the surface.

2.1.3 Groundwater

The predominance of the groundwater occurs as an unconfined aquifer in the unconsolidated deposits of the central basin, with the primary source of recharge as rainfall percolation and minor amounts of stream run-off along the western edge of the Sacramento Mountains. Surface

water/rainfall migrates downward into the alluvial sediments at the edge of the shallow aquifer near the ranges, and flows downgradient through progressively finer-grained sediments towards the central basin. Because the Tularosa Basin is a closed system, water that enters the area only leaves either through evaporation or percolation. This elevated amount of percolation results in a fairly high water table. Beneath WSNM, groundwater is expected to range in depth from 5 to 50 feet. Groundwater flow is generally expected to be towards the southwest with localized influences from the variations in the topography of the site.

2.1.4 Climate

As a whole, New Mexico has a mild, arid to semi-arid continental climate characterized by light precipitation totals, abundant sunshine, relatively low humidity, and relatively large annual and diurnal temperature range. The climate of the Central Closed Basins varies with elevation. The Base is found in the low areas and is characterized by warm temperatures and dry air. Daytime temperatures often exceed 100°F in the summer months and middle 50s in the winter. A preponderance of clear skies and relatively low humidity permits rapid night time cooling resulting in average diurnal temperature ranges of 25 to 35°F. Potential evapotranspiration, at 67 inches per year, significantly exceeds annual precipitation, usually less than 10 inches. The very low rainfall amounts result in the arid conditions, which with the topographically induced wind patterns combining with the sparse vegetation, tend to cause localized "dust devils". Much of the precipitation falls during the mid-summer monsoonal period (July and August) as brief, yet frequent, intense thunderstorms culminating to 30 – 40% of the annual total rainfall.

2.1.5 Geology

The sedimentary rocks which make up the adjacent mountain ranges are between 500 and 250 million years old (Figure 4). During the period when the area was submerged under the shallow intra-continental sea, the layers of limestone, shale, gypsum, and sandstone were deposited. In time, these layers were pushed upward through various tectonic forces forming a large bulge on the surface. Approximately 10 million years ago the center began to subside resulting in a vertical drop of thousands of feet leaving the edges still standing (the present day Sacramento and San Andreas mountain ranges). In the millions of years following, rainfall, snowmelt, and wind eroded the mountain sediments depositing them in the valley (i.e. Tularosa Basin). Water carrying eroded gypsum, gravel, and other matter continues to flow into the basin.

The Tularosa Basin is characterized as a bolson, which is defined as a basin in an arid or semi-arid region with a playa at its lowest point. Bolsons are characterized as being the focus of local runoff. Therefore sediments that are carried by runoff into the bolson are termed bolson deposits. The overlying alluvium generally consists of unconsolidated gravels, sands, and clays. Soils in the basin are derived from the adjacent ranges as erosional deposits of limestone, dolomite, and gypsum. A fining sequence from the ranges towards the basin's center characterizes the area with the near surface soils as alluvial, eolian, and lacustrine deposits. The alluvial fan deposits are laterally discontinuous units of interbedded sand, silt, and clay while the eolian deposits consist primarily of gypsum sands. The eolian and alluvial deposits are usually indistinguishable

due to the reworking of the alluvial sediment by eolian processes. The playa, or lacustrine deposits, consist of clay containing gypsum and are contiguous with the alluvial fan and eolian deposits throughout the site.

Mesozoic rocks in the northwest mark the Colorado Plateau, topped by younger Tertiary strata. Quaternary age sediments have washed off the Southern Rockies into the open basins and the Rio Grande Rift, a failed spreading center or aulacogen. This would-be ocean basin runs up the center of the state with the Rio Grande flowing down its middle, exposing the Paleozoic and Precambrian rocks on its uplifted flanks. Later Cenozoic volcanic intrusions of Quaternary and Tertiary in age are also associated with the rifting.

The great Permian Basin of Texas continues into the state from the southeast with younger Quaternary-Tertiary sediments of the Great Plains cover the whole eastern edge. Basin-and-range terrain of Tertiary sediments and volcanics appear in the extreme southwest coupled with wide dry basins choked with Quaternary coarse sediments eroded from the blocks of uplifted older rocks.

2.2 Crash Site Description

The crash site is approximately 12 miles north of Highway 70, in the sand dune area of WSNM in the Lake Lucero North East topographic quadrangle, Township 18 South, Range 6 East (Figure 5). The site is in an area that can be described as a desert environment, with large parabolic and transverse sand dunes. An access road is located approximately 300 feet south of the crash site. The road extends from Highway 70 to an abandoned missile observation platform located approximately 15 miles from the highway and three miles west of the site.

The QF-4 drone impacted the site from the southwest with a trajectory to the northeast. The majority of the aircraft had broken apart on impact with only the horizontal stabilizers, some of the forward wing and engine partially intact.

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3 REMEDIATION DOCUMENTATION

Sample documentation, identification and tracking of samples adhered to the prescribed methods of the Standrad Operating Procedures found in the HAFB Basewide Quality Assurance Project Plan (QAPP). During sampling, documentation of significant activities, significant occurrences, and sample identification information was completed. At a minimum, dates and times, sampling protocols, project numbers, and sampler's name were recorded. Chain-of-custody (COC) forms were completed and included with each sample shipment.

Each environmental sample collected was identified on the sample label and COC records. Duplicate samples appeared in sequence with the regular samples. The sample identifier nomenclature followed:

F4WSM-DP01-6

Site alpha-numeric identifier: F4WSM

Sample type identifier: CS = confirmation sample, DP = direct push boring
Sequential soil boring number: 01, 02, etc
Ending depth of sample interval: 6

Often, on the figures, the nomenclature has been shortened to the last four identifiers, eliminating the F4WSM because of lack of space within the figures.

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4 SITE INVESTIGATION

Prior to excavation of potentially impacted soils at the DCS, a preliminary subsurface investigation was completed to determine the horizontal and vertical extent of the potential contamination. The contaminants of concern for the crash site are total petroleum hydrocarbons, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, and low level radiological material. All work performed at the site was completed in accordance with the HAFB Standard Operating Procedures (SOPs) 1 through 10 found in the Base Wide Quality Assurance Project Plan (Bhate, July 2003).

4.1 Radiological Walkover Survey

Prior to the soil investigation and the excavation to remove any contaminated soils, a gamma walkover survey of the area was completed on December 19, 2003, by Bhate personnel. The survey was designed to delineate any small radiological contamination or materials (i.e. wreckage debris) on the ground surface after the larger material was removed during the initial site assessment. Identified radiological debris was removed and any surface contamination was flagged. The walkover survey was completed after the largest wreckage material was removed.

The survey was performed using a hand-held sodium-iodide field radiation detector through a 1.25 meter grid over the impact area at a constant velocity of approximately 0.5 meters per second while "swinging" the detector close to the ground surface. If a detector reading exceeded the investigation level of 1.5 times the mean background reading for the location being surveyed, the location was flagged for further investigation. The background reading for gamma radiation was determined at approximately 300 feet away from the crash site. The background levels ranged from 800 to 1,200 counts per minute (cpm). Gamma levels within the grid area were within the background range with the exception of 14 point sources (Figure 6) distributed along a linear pattern extending approximately 70 ft to the east of the point of impact. All of the point sources were comprised of magnesium-thorium alloy debris varying in size from 1 to 3 inches. Readings of gamma activity associated with these objects ranged from 15,000 to 800,000 cpm. The point source locations were marked with pin flags, surveyed with global positioning system (GPS) and collected in Ziploc bags. The identified material was transported to Holloman AFB by HAFB Bioengineering personnel.

4.2 Initial Soil Investigation

A total of six Direct Push Technology (DPT) soil borings were advanced at the impact area to provide a preliminary delineation of contamination (Figure 7). No sample material was retained from sample location F4WSM-DP05 because field screening of soils indicated contamination. This location would not have delineated the plume boundary for this region of the crash site. The sixth sample was collected as a step out from the DP03 location based upon screening results by the organic vapor analyzer (OVA). Sampling location F4WSM-DP03 had a quality assurance/quality control (QA/QC) duplicate sample collected from the 0 – 3 ft depth interval.

Sampling was completed to a depth of 6 ft below ground surface (bgs) with sampling intervals of 0 – 3 ft and 3 – 6 ft. To meet this preliminary objective, a sample was collected from the center of presumed impact, and the four others were collected from the perimeter approximately 10 feet from the center of the point of impact.

4.2.1 Field Screening

Continuous soil samples were collected from each soil boring. Each location was logged, visually classified and screened in the field for the presence of petroleum contaminants using an OVA. The soil boring logs are located in Appendix F. Although the NMED clean-up level is 940 mg/kg TPH, soils resulting in a reading above 850 mg/kg with the OVA were designated TPH contaminated, allowing for a 10% instrument error. The OVA readings were used to delineate the approximate extent of contamination for subsequent excavation and disposal. Table 1 provides the field screening OVA results for each of the soil borings completed.

4.2.2 Laboratory Analytical Results

A representative sample was collected from each interval and sent to a fixed base laboratory for organic (TPH, VOC, and SVOC) and metals (Resource Conservation and Recovery Act (RCRA) 8) analyses. Analytical results are summarized in Table 2. Laboratory form I data for the samples is provided in Appendix G1.

4.2.2.1 Total Petroleum Hydrocarbons

The total petroleum hydrocarbon constituents were analyzed by carbon fraction group, low (C6 – C10), mid (C10 – C22), and high (C22 – C36). Only sample location, F4WSM-DP03, demonstrated a concentration for total TPH above the NMED limit of 940 mg/kg and the industrial SSL of 2,233 mg/kg at 12,420 mg/kg. The exceedance was for the 0 – 3 ft sample interval. All other sample locations were substantially below the SSLs for both residential and industrial sites.

4.2.2.2 VOCs

Thirteen VOCs were detected in the soil samples analyzed from the initial investigation at three of the locations; F4WSM-DP03, -DP04, and –DP06 (Table 2). The following VOCs had detections in the soil samples collected: acetone, benzene, 2-butanone, ethylbenzene, hexane, isopropylbenzene, methylene chloride, methyl cyclohexane, 4-methyl-2-pentanone, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and total xylenes. None of the contaminant concentrations detected were above the calculated SSTL for either residential or industrial scenarios.

4.2.2.3 SVOCs

Five SVOCs (Table 2) were detected in three of the soil samples collected; only location F4WSM-DP03, including the duplicate, at the 0 – 3 foot depth.

4.2.2.4 Metals

The RCRA 8 metals analyses included: arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver. Of these, four were detected in the samples; barium, cadmium, chromium, and lead. Barium had the most detections with six samples resulting in a detection at three of the five locations; F4WSM-DP03, -DP04, and -DP06. For each of the RCRA 8 metals detected, all concentrations were below the SSL for either residential or industrial scenarios, for each analyte (Table 2). Because the soil samples did not indicate any metals contamination, further soil sample analyses did not include the RCRA 8 metals.

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5 SOIL EXCAVATION

5.1 Excavation

For the removal action, three excavations (the first plus two subsequent) from the same location were required for complete removal of all PCS. All soils were directly loaded into trucks for removal. No soils were stockpiled at the site. Confirmation soil samples collected during the initial excavation indicated PCS still existed at the site. For the second excavation, the excavated area was increased substantially and field screening was conducted with soil samples collected at an additional nine locations. The final excavation was focused around previously sampled locations F4WSM-CS16 and -CS19 which indicated petroleum contaminated soils still existed after the second excavation.

Overburden soil was removed, with appropriate screening, and stockpiled onsite in the designated location, as determined by WSNM personnel. Petroleum contaminated soils were temporarily stockpiled for immediate transfer to the commercial landfarm facility in Newman, New Mexico, for treatment/processing. The initial excavation area (red boundary depicted in Figure 8) completed on March 9, 2004, was approximately 13 feet x 13 feet x 3 feet deep. The second excavation, on March 23, 2004, expanded the area of contaminated soils removed to the final excavation/remediation area presented as the yellow boundary to a nominal depth of 3 feet bgs. On March 24, 2004, the final excavation, at F4WSM-CS16 and –CS19, was completed and is depicted by the green boundary. Each excavation boundary was surveyed via GPS upon completion.

During the excavation process, soils were screened for contamination. The initial screening was visual (i.e., observance of discoloration). Excavated soils were periodically screened utilizing soil-headspace screening techniques via the OVA. When discolored soils were observed and the OVA screening indicated an elevated reading, the excavation continued. Soils resulting in a reading above 850 mg/kg with the OVA (the NMED clean-up level is 940 mg/kg) were designated TPH contaminated. Representative samples from the excavated soil were analyzed for TPH and VOCs at a fixed laboratory analysis.

5.2 Confirmation Sampling

Soil samples were obtained from the floor of the excavation at a frequency of 1 per 100 square feet of exposed soil and from the lower one third of each excavation wall every 25 linear feet. Confirmation samples were collected in accordance with HAFB SOP-5. The samples were analyzed for VOCs by Environmental Protection Agency (EPA) Method 8260B, SVOCs by EPA Method 8270C, and TPH by EPA Method 8015. The laboratory form I data is included in Appendices G2, G3, and G4, respectively, for the first, second, and third excavations.

5.2.1 First Excavation

After the first excavation had extended into what appeared to be unimpacted soil based on OVA readings (Figure 8), 14 confirmation soil samples were collected for laboratory analysis (Table 3). However, four of the confirmation samples total TPH concentrations were above the NMED TPH level for jet fuel; F4WSM-CS03, -CS04, -CS05 and -CS12. Sample F4WSM-CS03 having a concentration of 2,020 mg/kg was above the residential SSL of 893 mg/kg, but just below the industrial SSL of 2,233 mg/kg. Each of these four locations -CS03, -CS04, -CS05 and –CS12 indicated the need for further excavation to the south and southwest. Of the remaining 10 locations sampled, the total TPH concentrations ranged from a low of below the detection limit (BDL) for F4WSM-CS10 and -CS14 to a high of 140 mg/kg at -CS01.

There were four VOCs of detectable quantities; ethylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and total xylenes in the following locations: F4WSM-CS03, -CS04, -CS05, -CS12, -CS13 and –CS14. None of the samples' concentrations exceeded the industrial SSLs. However, at location F4WSM-CS05, 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene concentrations (140,000 µg/kg and 33,000 µg/kg, respectively) exceeded the residential SSLs of 59,600 µg/kg and 25,600 µg/kg, respectively.

There were three SVOCs with detectable concentrations at five locations; F4WSM-CS01, -CS03, -CS04, -CS05, -CS12, and -CS13. The SVOCs detected were: dibenzofuran, 2-methylnaphtalene, and naphthalene. None were above either the residential or industrial calculated SSTL.

5.2.2 Second Excavation

The second excavation focused on the removal of soil from the southwestern wall from previously sampled location F4WSM-CS05 over to –CS03, including –CS12 (Figure 8). Confirmation samples F4WSM-CS15 through -CS23 were collected for closure (Table 4).

Six of the locations sampled, F4WSM-CS15, -CS16, -CS17, -CS19, -CS22, and -CS23, had detectable concentrations of TPH of either low, mid, or high chain fractions. None of the total TPH concentrations for these samples exceeded either the residential or industrial calculated SSTLs. For the detected total TPHs, they ranged from a low of 3.4 mg/kg (F4WSM-CS22) to a high of 424 mg/kg (F4WSM-CS19).

There were only four VOC analytes present in detectable amounts for the confirmation soil samples collected after the second excavation; 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, ethylbenzene, and total xylenes. Locations F4WSM-CS19, -CS20, and -CS23 each had a trace amount of 1,2,4-trimethylbenzene; whereas F4WSM-CS21 and F4WSM-CS22 each had trace amounts of 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and total xylenes. F4WSM-CS16 had a trace amount of 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene.

Two SVOCs, 2-methylnaphtalene and naphthalene, were detected at a single sample location; F4WSM-CS19 (1,690 µg/kg and 402 µg/kg, respectively). These concentrations were substantially below the SSL for each, 171,000 µg/kg and 61,200 µg/kg, respectively.

5.2.3 Third Excavation

A small amount of additional soil was removed with the over excavation near locations F4WSM-CS16 in the northwest corner and F4WSM-CS19 in the southwest corner (Figure 8). After the additional soil was removed, both locations were resampled as F4WSM-CS16b and F4WSM-CS19b. Results of the analyses showed concentrations below the detection limit for TPH, VOCs, and SVOCs at both locations (Table 5).

5.3 Site Restoration and Soil Disposal

5.3.1 Excavation Backfilling and Compaction

At the request of Park personnel, no imported material was used as backfill. The area of the excavation was graded to match the natural area as much as practical without destroying more of the delicate vegetation. The area was packed with the weight of the backhoe. No re-vegetation of the area was performed. WSNM personnel provided final approval for adequacy and completeness of site restoration.

5.3.2 Excavated Soil

Excavated soil was not segregated in the field due to the small amount of anticipated soil for excavation; the sensitive nature of the environment within the White Sands National Monument; and the limited amount of working space. Excavated soil was loaded directly into waiting trucks. Approximately 65 cubic yards of petroleum hydrocarbon contaminated soils were transferred to the commercial landfarm operating at Newman, New Mexico, for disposal. Appendix H contains the waste manifests.

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6 CONCLUSION AND RECOMMENDATIONS

An initial site investigation, with the collection of soil samples from 6 locations, identified the approximate limits of the area at the crash site impacted by jet fuel. The drone crash recovery and removal activity resulted in the complete removal of the QF-4 debris and petroleum contaminated soil. At the completion of the excavations, a total of approximately 65 cubic yards of petroleum hydrocarbon contaminated soils were removed and disposed off-site. A total of 25 confirmation soil samples were collected in accordance with the HAFB QAPP and USEPA protocols demonstrating complete removal of the impacted area of the QF-4 Drone Crash Site. The results for these samples is presented in Tables 2 through 5 and discussed in Section 5 of this report. The final samples collected and analyzed indicated levels for total TPH to be below the NMED regulated limit. Based on confirmation sample analysis, any petroleum constituents that may remain within the soils at the site are less than the NMED allowable limit of 940 mg/kg for TPH.

Groundwater at the crash site is approximately 30 to 40 feet bgs. The initial soil investigation at the crash site, with samples collected at 3 to 6 feet, demonstrated the soil contamination was not present below the sampling depth. Because soil sampling indicted the petroleum hydrocarbon contamination to be well above the predicted water table for the site (greater than 30 ft bgs), no groundwater samples were collected for analyses.

The site was restored as requested by WSNM. No new backfill material was used. The site was graded comparable to adjacent topography. Based on data collected during the excavation completed at the site in March 2004, no further excavation and removal of PCS is required at the Drone Crash Site.

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7 REFERENCES

Bhate Environmental Associates, Inc., *Draft Basewide Health and Safety Plan,* July 2003.

Bhate Environmental Associates, Inc., *Draft Basewide Quality Assurance Project Plan,* July 2003.

New Mexico Environment Department, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, *Technical Background Document for the Development of Soil Screening Levels*, December 2000, Revised January 2001.

New Mexico Environment Department, Hazardous Waste Bureau, *TPH Screening Guidelines*, June 24, 2003.

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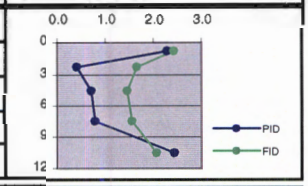
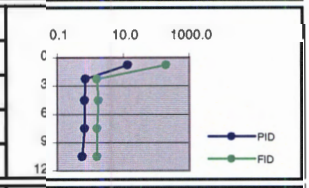
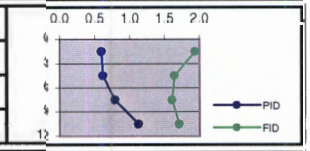
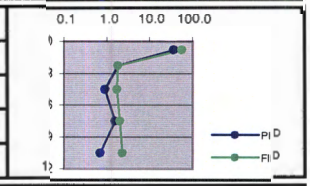
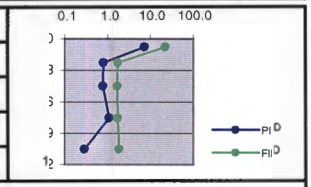
TABLES

Table 1. Initial Soil Investigation Field Screening Results
Drone Crash Site
White Sands National Monument, NM
Project No. 9030232.03.01

Sample No.	Sample Date	Sample Depth (feet bgs)	PID (ppm)	FID (ppm)	Location Profile
F4WSM-DP01	3/8/04	0.75	2.29	2.43	
		2.25	0.41	1.66	
		4.50	0.71	1.46	
		7.50	0.79	1.56	
		10.50	2.44	2.07	
F4WSM-DP02	3/8/04	0.75	13.89	201	
		2.25	0.73	1.62	
		4.50	0.68	1.76	
		7.50	0.67	1.61	
		10.50	0.57	1.59	
F4WSM-DP03	3/8/04	1.50	0.6	1.94	
		4.50	0.62	1.64	
		7.50	0.79	1.61	
		10.50	1.13	1.71	
F4WSM-DP04	3/8/04	0.75	36.13	55.82	
		2.25	1.81	1.82	
		4.50	0.91	1.74	
		7.50	1.58	2.06	
		10.50	0.71	2.31	
F4WSM-DP05	No Samples Collected				
F4WSM-DP06	3/8/04	0.75	7.31	22.4	
		2.25	0.8	1.72	
		4.50	0.77	1.68	
		7.50	1.1	1.74	
		10.50	0.29	1.88	

ppm = Parts per million; PID = Photo ionization detector, FID = Flame ionization detector, bgs = below ground surface

Table 2. Initial Soil Sampling Analytical Results
Drone Crash Site
White Sands National Monument, NM
Project No. 9030232.03.01

Sample Information	Sample No.	SSL		F4WSM-DP01	F4WSM-DP02	F4WSM-DP03	F4WSM-DP03	F4WSM-DP03	F4WSM-DP04	F4WSM-DP04	F4WSM-DP05	F4WSM-DP06	F4WSM-DP06
	Sample Date	Residential	Industrial	1/21/04	1/21/04	1/21/04	1/21/04	1/21/04	1/21/04	1/21/04	NO SAMPLES COLLECTED	1/21/04	1/21/04
	Sample Depth (feet)					0-3	0-3	3-6	0-3	3-6		0-3	3-6
Carbon Chain I (EPA 8015) (mg/kg)	C06 - C10	NVC	NVC	BDL	BDL	120	BDL	13	BDL	BDL		BDL	BDL
	C10 - C22	NVC	NVC	BDL	BDL	5,500	4800E	64	160	23		BDL	BDL
	C22 - C36	NVC	NVC	BDL	BDL	6,800	8.8	BDL	6.2J	7.3		BDL	BDL
	Total (C6 - C36)	893	2,233	BDL	BDL	12,420	6.8	77	166.2	30.3		BDL	BDL
Volatile Organic Compounds (EPA 8260) (µg/Kg)	Acetone	NVC	1.E+07	BDL	BDL	BDL	BDL	BDL	BDL	19J		22J	15J
	Benzene	11,200	24,500	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL
	2-Butanone	1.E+07	5.E+07	BDL	BDL	630JB	BDL	470JB	400JB	BDL		BDL	BDL
	Ethylbenzene	86,600	86,600	BDL	BDL	660	930J	BDL	110J	BDL		BDL	BDL
	Hexane	37,400	37,400	BDL	BDL	44JB	BDL	34JB	38JB	4.8JB		4.5JB	3.4JB
	Isopropylbenzene	3.E+05	4.E+05	BDL	BDL	1,000	1,400	BDL	16J	BDL		BDL	BDL
	Methylene chloride	2.E+05	4.E+05	BDL	BDL	BDL	BDL	BDL	BDL	8.9JB		9.4JB	8.6JB
	Methyl cyclohexane	77,200	77,200	BDL	BDL	13J	BDL	BDL	BDL	BDL		BDL	BDL
	4-Methyl-2-pentanone	2.E+06	7.E+06	BDL	BDL	BDL	BDL	BDL	1,100J	BDL		BDL	BDL
	Toluene	2.E+05	2.E+05	BDL	BDL	30JB	BDL	BDL	BDL	BDL		BDL	BDL
	1,2,4-Trimethylbenzene	59,800	2.E+05	BDL	BDL	25,000E	36,000	360	53J	BDL		BDL	BDL
	1,3,5-Trimethylbenzene	25,800	69,100	BDL	BDL	8,000	8,100	87J	42J	BDL		BDL	BDL
	Total Xylenes	81,200	81,200	BDL	BDL	2,300	3,200	BDL	2,100	BDL		BDL	BDL
Semi-VOCs (EPA 8270) (µg/Kg)	Dibenzofuran	36,800	36,800	BDL	BDL	580	BDL	BDL	BDL	BDL		BDL	BDL
	Fluorene	22,800	22,800	BDL	BDL	150J	140J	BDL	BDL	BDL		BDL	BDL
	2-Methylnapthalene	2.E+05	2.E+05	BDL	BDL	33,000E	18,000	230J	BDL	BDL		BDL	BDL
	Napthalene	61,200	61,200	BDL	BDL	12,000E	7,900	47J	BDL	BDL		BDL	BDL
	Phenanthrene	21,000	21,000	BDL	BDL	38J	BDL	BDL	BDL	BDL		BDL	BDL
RCRA Metal (mg/Kg)	Arsenic	NVC	NVC	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL
	Barium	5,200	15,000	BDL	BDL	22.2B	BDL	19.4B	29.7B	18.4B		31.5B	30.3B
	Cadmium	70	190	BDL	BDL	0.36B	BDL	BDL	0.61B	0.45B		BDL	BDL
	Chromium	1.E+05	1.E+05	BDL	BDL	16.1	BDL	BDL	1.6B	1.3B		BDL	1.5B
	Lead	400	1,000	BDL	BDL	15.7	BDL	2.4	10.4	6.1		BDL	BDL
	Mercury	NVC	NVC	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL
	Selenium	NVC	NVC	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL
	Silver	NVC	NVC	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL

VALUE = Exceeds industrial SSL or NMED TPH limit; BDL = Below Detection Limit; mg/kg = milligrams per kilogram; µg/kg = micrograms per kilogram; NVC = No value calculated; J = Estimated value, concentration below method detection limit

NMED TPH allowable limit for jet fuel = 940 micrograms per kilograms in soil

Table 3. First Excavation Confirmation Soil Sampling Analytical Results
Drone Crash Site
White Sands National Monument, NM
Project No. 9030232.03.01

Sample Information	Sample No. / Sample Date	SSL Residential	SSL Industrial	F4WSM-CS01-2 3/9/04	F4WSM-CS02-2 3/9/04	F4WSM-CS03-2 3/9/04	F4WSM-CS04-2 3/9/04	F4WSM-CS05-2 3/9/04	F4WSM-CS06-2 3/9/04	F4WSM-CS07-2 3/9/04	F4WSM-CS08-2 3/9/04	F4WSM-CS09-2 3/9/04	F4WSM-CS10-2 3/9/04	F4WSM-CS11-2 3/9/04	F4WSM-CS12-2 3/9/04	F4WSM-CS13-3 3/9/04	F4WSM-CS14-3 3/9/04
Carbon Chain I (EPA 8015) (mg/kg)	C06 - C10	NVC	NVC	48	6	790	6,290	14,800	10.0	8.1	5	5	BDL	5.3	2,010	18	BDL
	C10 - C22	NVC	NVC	92	18	1,230	2,650	5,050	65	44	3.3	BDL	BDL	15	1,720	52	BDL
	C22 - C36	NVC	NVC	BDL	BDL	BDL	10	314	9.3	23	BDL	BDL	BDL	BDL	214	BDL	BDL
	Total (C6 - C36)	893	2,233	140	24	2,020	8,920	20,164	84.3	73.1	8.3	5.0	NVC	20.3	3,944	70	NVC
Volatile Organic Compounds (EPA 8260) (µg/Kg)	Acetone	NVC	1.E+07	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	Benzene	11,200	24,500	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	2-Butanone	1.E+07	5.E+07	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	Ethylbenzene	86,600	86,600	BDL	BDL	BDL	3,210	18,900	BDL	BDL	BDL	BDL	BDL	BDL	1,210	BDL	BDL
	Hexane	37,400	37,400	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	Isopropylbenzene	3.E+05	4.E+05	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	Methylene chloride	2.E+05	4.E+05	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	Methyl cyclohexane	77,200	77,200	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	4-Methyl-2-pentanone	2.E+06	7.E+06	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	Toluene	2.E+05	2.E+05	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	1,2,4-Trimethylbenzene	59,600	2.E+05	BDL	BDL	760	41,800	140,000	BDL	BDL	BDL	BDL	BDL	BDL	38,700	7.2	677
	1,3,5-Trimethylbenzene	25,600	69,100	BDL	BDL	178	9,830	33,000	BDL	BDL	BDL	BDL	BDL	BDL	8,070	7.8	BDL
	Total Xylenes	81,200	81,200	BDL	BDL	BDL	9,850	46,000	BDL	BDL	BDL	BDL	BDL	BDL	4,470	BDL	BDL
Semi-VOCs (EPA 8270) (µg/Kg)	Dibenzofuran	36,800	36,800	BDL	BDL	750	1,020	2,040	BDL	BDL	BDL	BDL	BDL	BDL	988	BDL	BDL
	Fluorene	22,800	22,800	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	2-Methylnapthalene	2.E+05	2.E+05	1,880	BDL	12,500	25,300	41,700	BDL	BDL	BDL	BDL	BDL	BDL	15,700	568	BDL
	Napthalene	61,200	61,200	400	BDL	2,490	16,700	28,900	BDL	BDL	BDL	BDL	BDL	BDL	7,220	BDL	BDL
	Phenanthrene	21,000	21,000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

VALUE = Exceeds industrial SSL or NMED TPH limit; BDL = Below Detection Limit; mg/kg = milligrams per kilogram; µg/kg = micrograms per kilogram; NVC = No value calculated; J = Estimated value, concentration below method detection limit

NMED TPH allowable limit for jet fuel = 940 micrograms per kilograms in soil

Table 4. Second Excavation Confirmation Soil Sampling Analytical Results
Drone Crash Site
White Sands National Monument, NM
Project No. 9030232.03.01

Sample Information	Sample No. / Sample Date / Sample Depth (feet)	SSL Residential	SSL Industrial	F4WSM-CS15 3/23/04	F4WSM-CS-16 3/23/04	F4WSM-CS17 3/23/04	F4WSM-CS18 3/23/04	F4WSM-CS19 3/23/04	F4WSM-CS20 3/23/04	F4WSM-CS21 3/23/04	F4WSM-CS22 3/23/04	F4WSM-CS23 3/23/04
Carbon Chain I (EPA 8015) (mg/kg)	C06 - C10	NVC	NVC	BDL	BDL	BDL	BDL	11	BDL	BDL	BDL	BDL
	C10 - C22	NVC	NVC	4.4	27	8	BDL	413	BDL	BDL	3	3.6
	C22 - C36	NVC	NVC	BDL	BDL	5	BDL	BDL	BDL	BDL	BDL	BDL
	Total (C6 - C36)	893	2,233	4.4	27	13	NVC	424	NVC	NVC	3	3.6
Volatile Organic Compounds (EPA 8260) (µg/Kg)	Acetone	NVC	1.E+07	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	Benzene	11,200	24,500	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	2-Butanone	1.E+07	5.E+07	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	Ethylbenzene	86,600	86,600	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.5J	BDL
	Hexane	37,400	37,400	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	Isopropylbenzene	3.E+05	4.E+05	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	Methylene chloride	2.E+05	4.E+05	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	Methyl cyclohexane	77,200	77,200	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	4-Methyl-2-pentanone	2.E+06	7.E+06	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	Toluene	2.E+05	2.E+05	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	1,2,4-Trimethylbenzene	59,600	2.E+05	BDL	1.1J	BDL	BDL	2.1J	1.5J	6.1	14	3.4J
	1,3,5-Trimethylbenzene	25,600	69,100	BDL	2.3J	BDL	BDL	BDL	BDL	1.2J	3.1J	BDL
	Total Xylenes	81,200	81,200	BDL	BDL	BDL	BDL	BDL	BDL	1.2J	6	BDL
Semi-VOCs (EPA 8270) (µg/Kg)	Dibenzofuran	36,800	36,800	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	Fluorene	22,600	22,600	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	2-Methylnapthalene	2.E+05	2.E+05	BDL	BDL	BDL	BDL	1,690	BDL	BDL	BDL	BDL
	Napthalene	61,200	61,200	BDL	BDL	BDL	BDL	402	BDL	BDL	BDL	BDL
	Phenanthrene	21,000	21,000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

VALUE = Exceeds industrial SSL or NMED TPH limit; BDL = Below Detection Limit; mg/kg = milligrams per kilogram; µg/kg = micrograms per kilogram; NVC = No value calculated; J = Estimated value, concentration below method detection limit

NMED TPH allowable limit for jet fuel = 940 micrograms per kilograms in soil

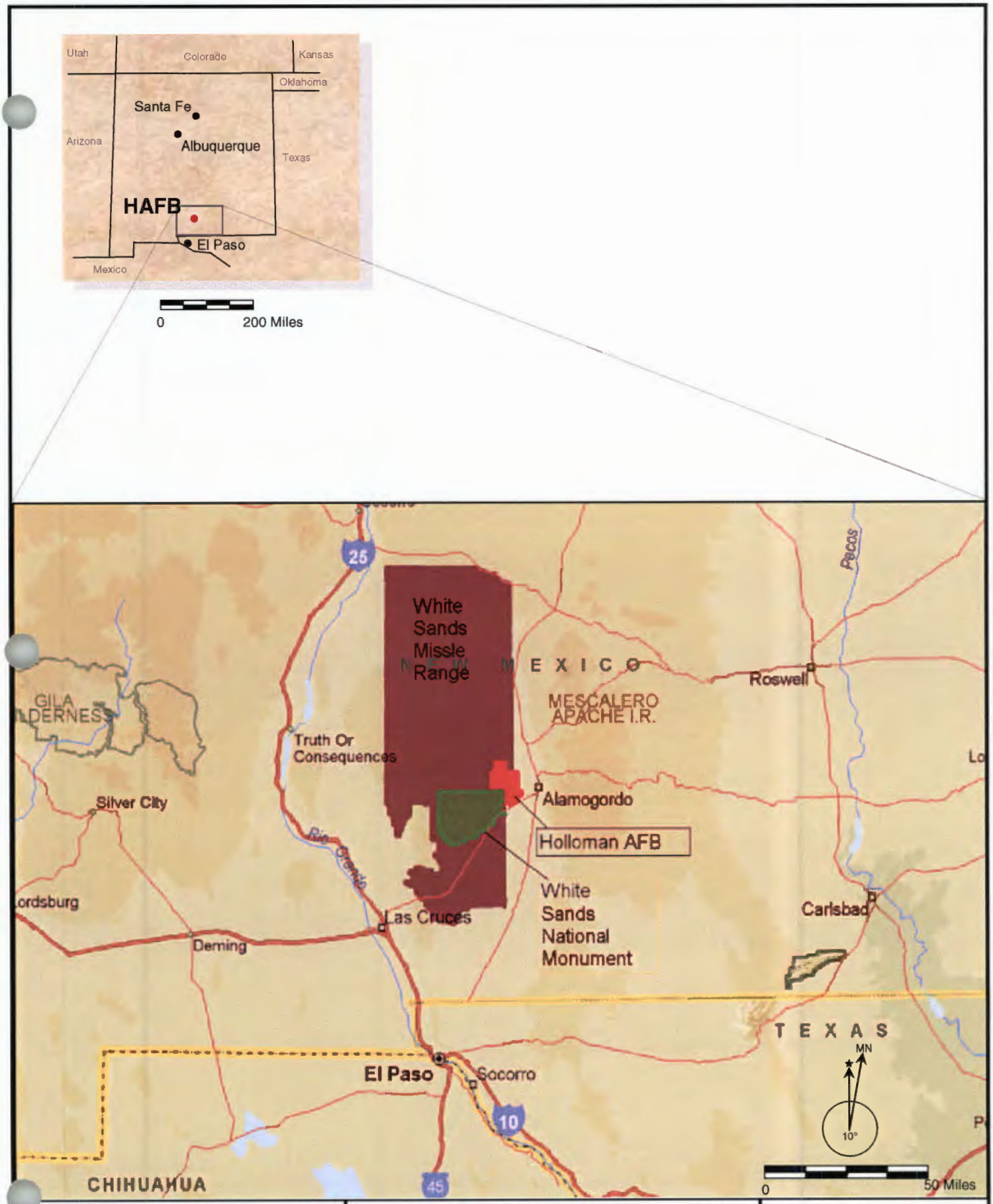
Table 5. Third Excavation Confirmation Soil Sampling Analytical Results
Drone Crash Site
White Sands National Monument, NM
Project No. 9030232.03.01

Sample Information	Sample No. / Sample Date	SSL Residential	SSL Industrial	F4WSM-CS16b 3/24/04	F4WSM-CS19b 3/24/04
Carbon Chain I (EPA 8015) (mg/kg)	C06 - C10	NVC	NVC	BDL	BDL
	C10 - C22	NVC	NVC	BDL	BDL
	C22 - C36	NVC	NVC	BDL	BDL
	Total (C6 - C36)	893	2,233	NVC	NVC
Volatile Organic Compounds (EPA 8260) (µg/Kg)	Acetone	NVC	1.E+07	BDL	BDL
	Benzene	11,200	24,500	BDL	BDL
	2-Butanone	1.E+07	5.E+07	BDL	BDL
	Ethylbenzene	86,600	86,600	BDL	BDL
	Hexane	37,400	37,400	BDL	BDL
	Isopropylbenzene	3.E+05	4.E+05	BDL	BDL
	Methylene chloride	2.E+05	4.E+05	BDL	BDL
	Methyl cyclohexane	77,200	77,200	BDL	BDL
	4-Methyl-2-pentanone	2.E+06	7.E+06	BDL	BDL
	Toluene	2.E+05	2.E+05	BDL	BDL
	1,2,4-Trimethylbenzene	59,600	2.E+05	BDL	BDL
	1,3,5-Trimethylbenzene	25,600	69,100	BDL	BDL
	Total Xylenes	81,200	81,200	BDL	BDL
Semi-VOCs (EPA 8270) (µg/Kg)	Dibenzofuran	36,800	36,800	BDL	BDL
	Fluorene	22,800	22,800	BDL	BDL
	2-Methylnapthalene	2.E+05	2.E+05	BDL	BDL
	Napthalene	61,200	61,200	BDL	BDL
	Phenanthrene	21,000	21,000	BDL	BDL

VALUE = Exceeds industrial SSL or NMED TPH limit; BDL = Below Detection Limit; mg/kg = milligrams per kilogram; µg/kg = micrograms per kilogram; NVC = No value calculated; J = Estimated value, concentration below method detection limit

NMED TPH allowable limit for jet fuel = 940 micrograms per kilograms in soil

FIGURES

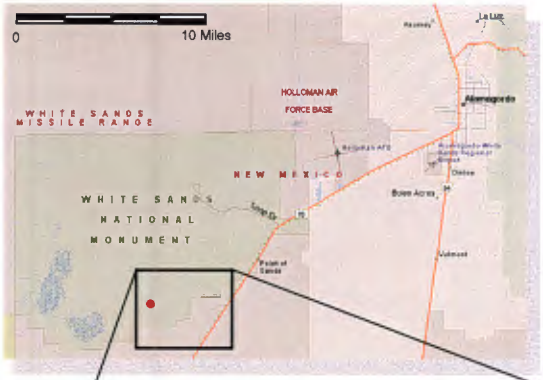


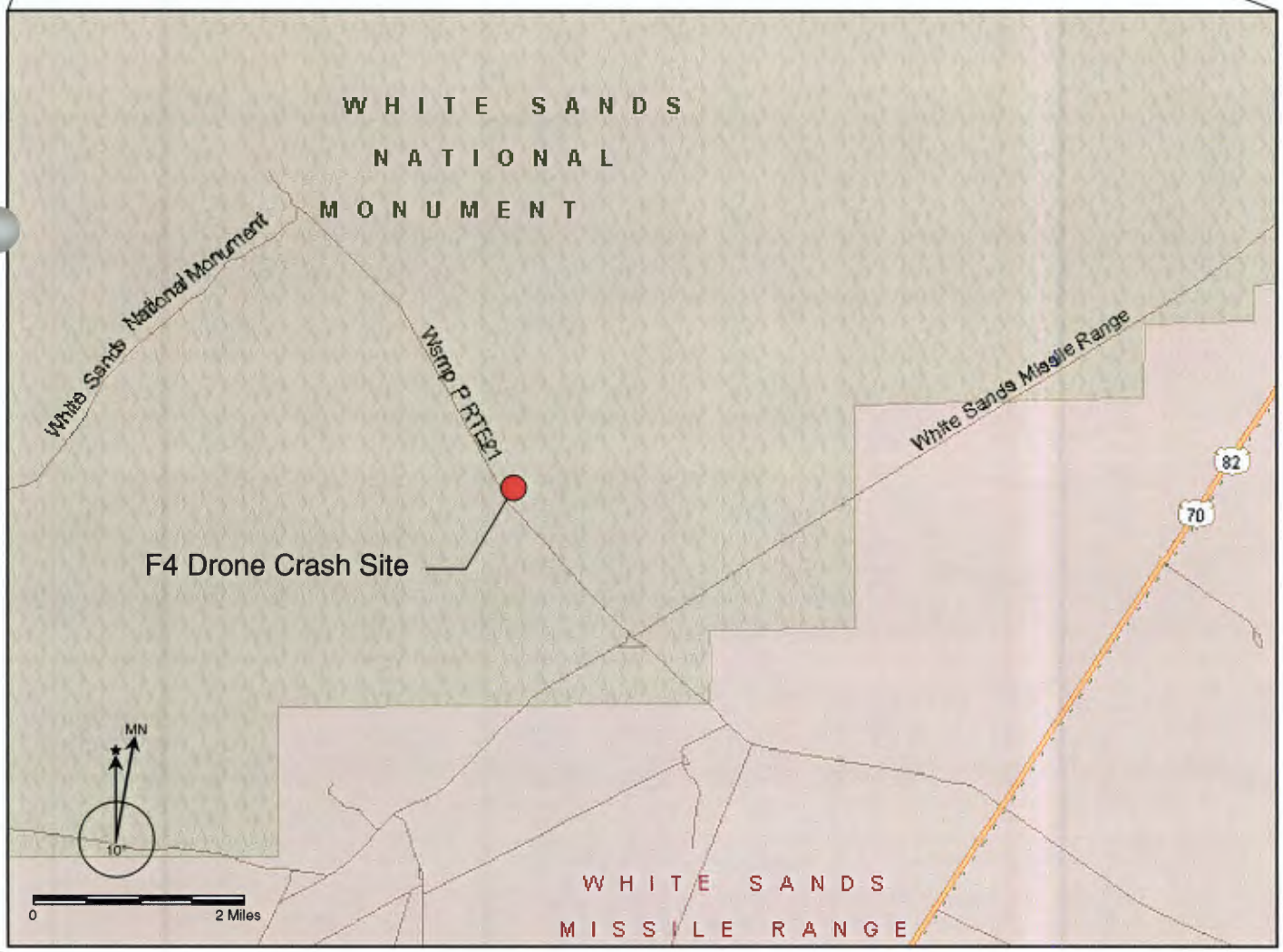
BHATE
Environmental Engineers and Scientists

White Sands National Monument
Location Map

PROJECT NO.	SCALE:	DATE:	DRAWN BY: SSD
9030232	SHOWN	5/01/04	FILE: 9030232-03-01

Soil Removal Report
Drone Crash Site
Figure 1
Holloman AFB, NM





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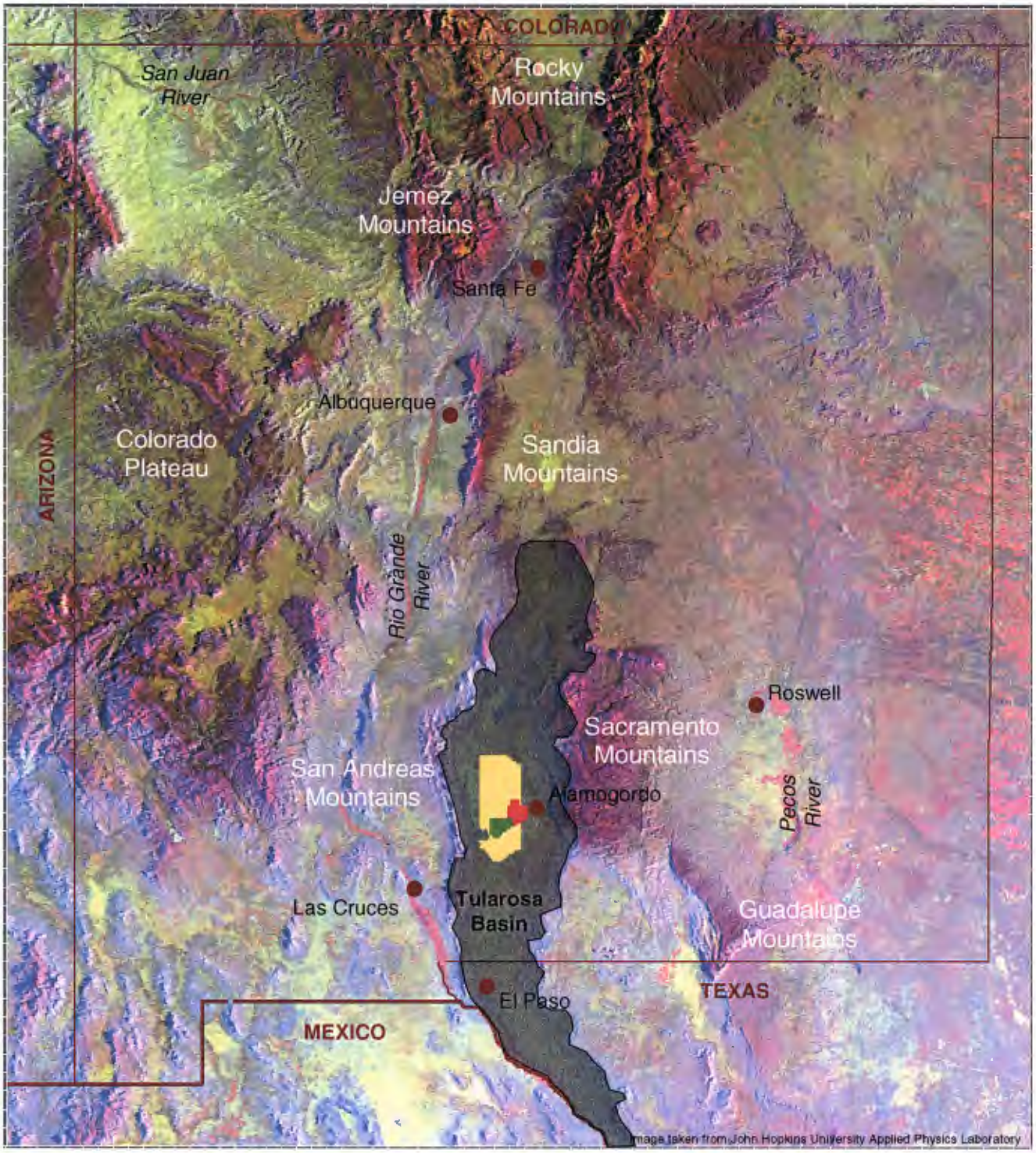
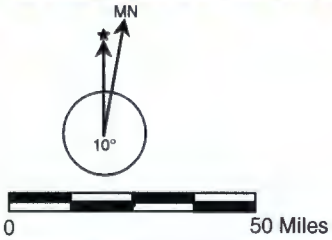
Environmental Engineers and Scientists

QF4 Drone Crash Site
Location Map

PROJECT NO.:	SCALE:	DATE:	DRAWN BY: SSD
9030232	SHOWN	5/01/04	FILE: 9030232-03-01

Soil Removal Report
Drone Crash Site
Figure 2
Holloman AFB, NM





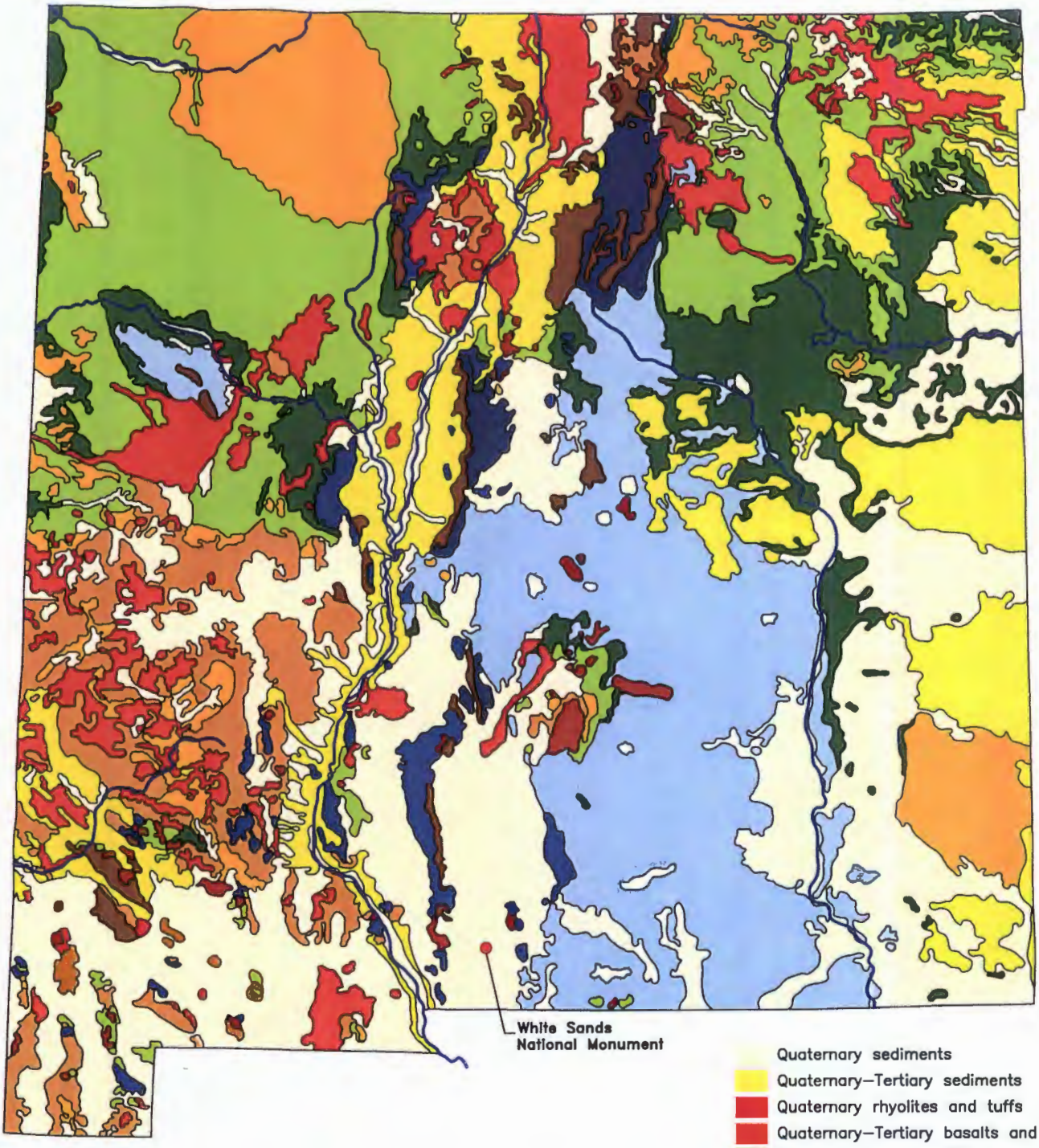
Holloman AFB
White Sands National Monument
White Sands Missile Range

BHATE
Environmental Engineers and Scientists

QF4 Drone Crash Site
Physiographic Map

PROJECT NO.:	SCALE:	DATE:	DRAWN BY: SSD
9030232	SHOWN	8/6/03	FILE: 9030232-01.03-01

Soil Removal Report
Drone Crash Site
Figure 3
Holloman AFB, NM



Quaternary sediments
Quaternary–Tertiary sediments
Quaternary rhyolites and tuffs
Quaternary–Tertiary basalts and andesites
Tertiary sediments
Tertiary volcanics
Tertiary–Cretaceous intrusives
Cretaceous sediments
Jurassic–Triassic
Permian
Pennsylvanian
Paleozoic undifferentiated
Precambrian

N

0 25 50mi.
SCALE:

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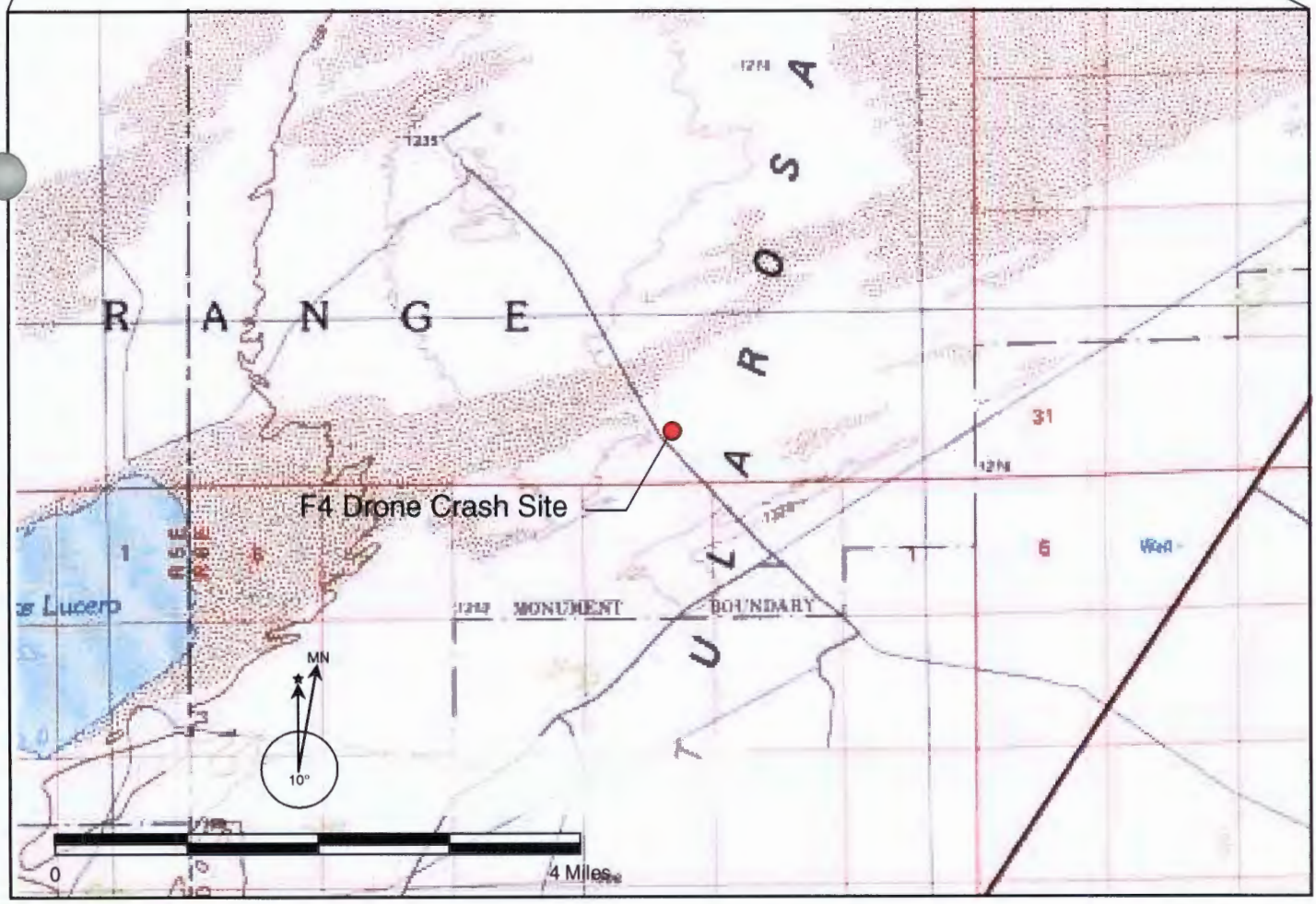
GENERALIZED GEOLOGIC MAP
OF NEW MEXICO

PROJECT NO.	SCALE	DATE	DRAWN BY: MRM
9030232	AS SHOWN	5/06/04	DRAWING NO: 9030232–01

Soil Removal Report
Drone Crash Site

Figure 4

Holloman AFB, New Mexico



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QF4 Drone Crash Site Topographic Map			
PROJECT NO.: 9030232	SCALE: SHOWN	DATE: 4/4/04	DRAWN BY: SSD FILE: 9030232-01.01-02

Soil Removal Report
Drone Crash Site
Figure 5
Holloman AFB, NM

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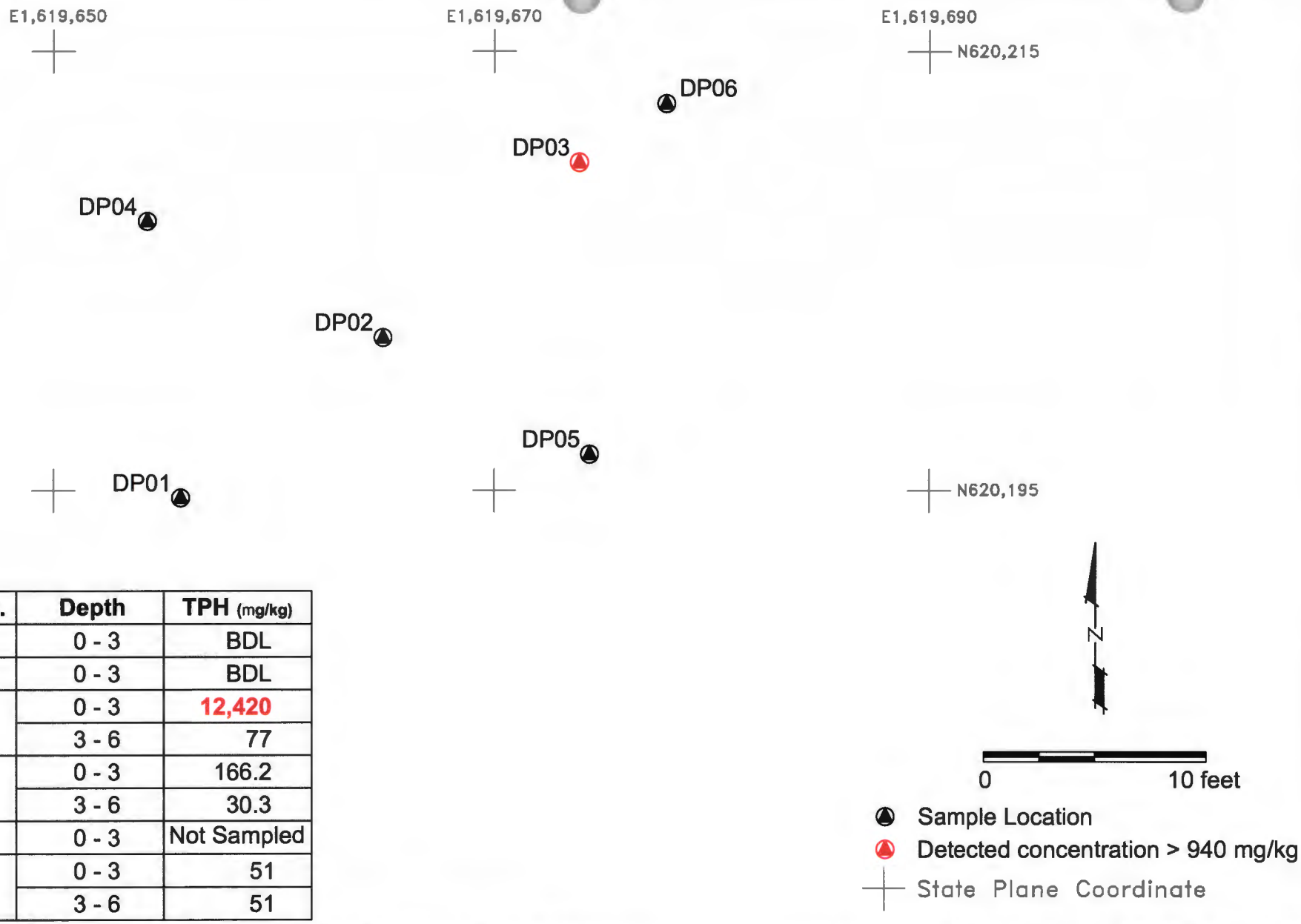
QF4 DRONE CRASH SITE
RADIOLOGICAL WALK OVER SURVEY
ANOMOLIES IDENTIFIED

PROJECT NO.	SCALE	DATE	DRAWN BY:
9030232	SHOWN	05/12/04	SSD
			DRAWING NO: 9030232-03.01-06

SOIL REMOVAL REPORT
DRONE CRASH SITE

FIGURE 6

HOLLOMAN AFB, NM



Sample No.	Depth	TPH (mg/kg)
DP01	0 - 3	BDL
DP02	0 - 3	BDL
DP03	0 - 3	12,420
	3 - 6	77
DP04	0 - 3	166.2
	3 - 6	30.3
DP05	0 - 3	Not Sampled
DP06	0 - 3	51
	3 - 6	51

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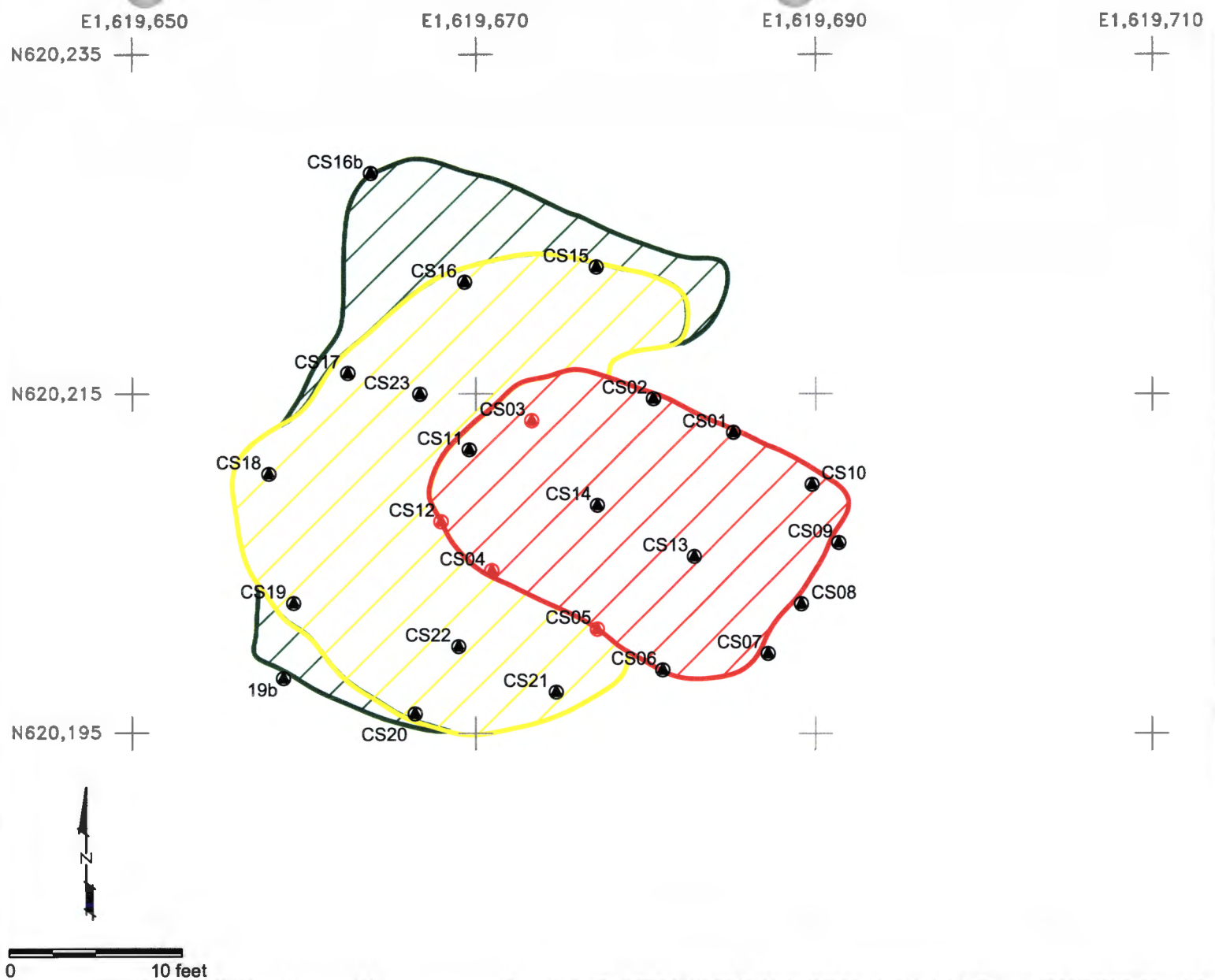
QF4 DRONE CRASH SITE
INITIAL INVESTIGATION
SOIL SAMPLE LOCATIONS

PROJECT NO.	SCALE	DATE	DRAWN BY: SSD
9030232	SHOWN	05/12/04	DRAWING NO: 9030232-03.01-07

SOIL REMOVAL REPORT
DRONE CRASH SITE

FIGURE 7

HOLLOMAN AFB, NM



Excavation	Sample No.	TPH (mg/kg)
1st Excavation	CS01	140
	CS02	24
	CS03	2,020
	CS04	8,920
	CS05	20,164
	CS06	84.3
	CS07	73.1
	CS08	8
	CS09	5
	CS10	BDL
	CS11	20.3
	CS12	3,944
	CS13	70
	CS14	BDL

Excavation	Sample No.	TPH (mg/kg)
2nd Excavation	CS15	4.4
	CS16	27
	CS17	13
	CS18	BDL
	CS19	424
	CS20	BDL
	CS21	BDL
	CS22	3
	CS23	3.6

Excavation	Sample No.	TPH (mg/kg)
3rd Excavation	CS16b	BDL
	CS19b	BDL

- 1st Excavation Boundary
- 2nd Excavation Boundary
- 3rd Excavation Boundary
- Sample Location
- Detected concentration > 940 mg/kg
- State Plane Coordinate

BHATE
Environmental Engineers and Scientists

QF4 DRONE CRASH SITE
EXCAVATION BOUNDARIES WITH
CONFIRMATION SOIL SAMPLE LOCATIONS

PROJECT NO.	SCALE	DATE	DRAWN BY:
9030232	SHOWN	05/12/04	SSD
			DRAWING NO: 9030232-03.01-08

SOIL REMOVAL REPORT
DRONE CRASH SITE

FIGURE 8

HOLLOMAN AFB, NM

APPENDIX A

US DEPARTMENT OF INTERIOR
NATIONAL PARK SERVICE
SPECIAL USE PERMIT

Form 10-114
Rev. DEC. 99

UNITED STATES DEPARTMENT OF THE INTERIOR
National Park Service

Special Use Permit

Name of Use **Access; remove debris and contaminants**

Date Permit Reviewed _____
Expires **30 SEP 03**

Long Term ____

Short Term **X**

Permit # Region Park Type No. #

Name of Area **White Sands National Monument**

James P. Hunt, Brigadier General (Sel), U.S. Air Force, Commander, 49th Fighter Wing, Holloman AFB 505-572-5571
Name or Permittee Address Phone

is hereby authorized during the period from **(10 FEB 03)**, through **(30 SEP 03)**, to use the following described land or facilities in the above named area:

National Park Service lands immediately surrounding the QF4 drone impact site of 11 FEB 03 at location coordinates N 32 42.418 latitude, W 106 19.080 longitude.

For the purpose(s) of:

ess to investigate mishap site, remove aircraft debris, take soil samples, remove contaminated soil.

Authorizing legislation or other authority (RE - DO-53): **16 U.S.C. 1 et seq.; 42 U.S.C. 9601 et seq.**

NEPA Compliance: CATEGORICALLY EXCLUDED **X** EA/FONSI ___ EIS ___ OTHER APPROVED PLANS ___

PERFORMANCE BOND: Required _____ Not Required **X** Amount $_____

LIABILITY INSURANCE: Required _____ Not Required **X** Amount $_____

ISSUANCE of this permit is subject to the conditions on the reverse hereof and appended pages and when appropriate to the payment to the U.S. Dept. of the Interior, National Park Service of the sum of $

The undersigned hereby accepts this permit subject to the terms, covenants, obligations, and reservations, expressed or implied herein.

PERMITTEE _____ **JAMES P. HUNT** 20 FEB 03
Signature — Brigadier General (sel), USAF, Commander, 49th Fighter Wing — Date

Authorizing Official _____ James A. Mack 2/20/03
Signature — Superintendent — Date

Additional Authorizing Official _____ _____ _____
(If Required) Signature — Title — Date

CONDITIONS OF THIS PERMIT

1. The permittee shall exercise this privilege subject to the supervision of the Superintendent, and shall comply with all applicable laws and regulations of the area.

2. The issuance of this permit will grant U.S. Air Force access to National Park Service (NPS) property to conduct those activities necessary to perform the work set forth in the attached statement of work entitled "Work Plan".

3. Motor vehicles including trucks and tractors may drive off maintained road using marked route to impact site. Any vehicles brought to the site will be limited to traveling within the established work zone. The zone will be clearly delineated by an NPS representative prior to the commencement of work.

4. The NPS reserves the right to stop work being performed on NPS property should the NPS determine that such work has or will negatively impact any NPS resources.

5. Air Force personnel and contractors must be apprised of, and be familiar with, the contents of this permit. A copy of this permit will be available on-site during all phases of the associated work.

7. This permit does not authorize any use, activity, or purpose other than those expressly herein described.

Assignment - This permit may not be transferred or assigned without the consent of the Superintendent, in writing.

9. This permit does not grant any property rights, easements, rights-of-ways, etc.

10. PREVENTION OF DAMAGE AND RESTORATION OF SITE: Air Force shall take adequate measures as directed and approved by NPS to prevent or minimize damage to all Park resources during all activities including, but not limited to debris removal and soil sampling/removal. This may include but not be limited to restoration, soil conservation and erosion protection measures, landscaping, and repairing roads, trails, signs, etc. All work on Park lands shall be completed to the satisfaction of NPS.

11. QUALITY CONTROL: An NPS representative will observe all activities on NPS property, or those activities that are or may be impacting NPS property and resources.

12. REIMBURSEMENT FOR NPS PERSONNEL: Air Force will compensate the NPS for all hours worked by NPS personnel under this Special Use Permit. NPS will provide Air Force a Bill for Collection for all associated costs.

13. REGULATORY REQUIREMENTS: All site work will be conducted and implemented in accordance with all Federal, state, and local regulations and requirements, including the Comprehensive Environmental Response, Compensation and Liability Act, CERCLA, 42 U.S.C sections 9601 et seq., and the National Oil and Hazardous Substances Pollution Contingency Plan, 40 C.F.R Part 300 et seq., and shall be consistent with the NPS mission (see e.g., 16 USC Sections 1 et. seq.).

14. Air Force shall make available to the NPS, all information in its possession that is relevant to Site Work and all other related environmental work, in a timely fashion.

15. SAFETY: All applicable Federal, state, and local health and safety regulations and standards, including those cited in 29 Code of Federal Regulations (CFR) 1910.120, will be adhered to while performing any work on NPS property.

Military will provide a safety UXO safety briefing and hazmat safety briefing prior to all personnel entering the impact site. The general locale is known to be contaminated with cluster bomb sub-munitions.

16. Future access to NPS property or any modifications to this permit will require a written amendment issued by the NPS.

17. All work and investigations on NPS property requires a minimum 48-hour notice to the NPS point of contact.

18. The NPS point of contact for all aspects of this permit will be James A. Mack, Superintendent, White Sands National Monument. His alternate will be Bill Conrod, Chief of Resources Management, White Sands National Monument. Either can be contacted at (505) 679-2599, or by mail at P.O. Box 1086, Holloman AFB, NM 88330-1086.

19. Damages - The permittee shall pay the United States for any damage resulting from this use which would not reasonably be inherent in the use which the permittee is authorized to make of the land described in this permit.

20. Benefit - Neither Members of, nor Delegates to Congress, or Resident Commissioners shall be admitted to any share or part of this permit or derive, either directly or indirectly, any pecuniary benefits to arise therefrom: Provided, however, that nothing herein contained shall be construed to extend to any incorporated company, if the permit be for the benefit of such corporation.

21. Revocation - This permit may be terminated upon breach of any of the conditions herein or at the discretion of the Superintendent.

22. The permittee is prohibited from giving false information; to do so will be considered a breach of conditions and be grounds for revocation [Re: 36 CFR 2.32(a)(4)].

23. Permittee will comply with applicable public health and sanitation standards and codes.

24. This agreement is made upon the express condition that the United States, its agents and employees shall be free from all liabilities and claims for damages and/or suits for or by reason of any injury, or death to any person or property of the Permittee, its agents or employees, or third parties, from any cause or causes whatsoever while in or upon said premises or any part thereof during the term of this agreement or occasioned by any occupancy or use of said premises or any activity carried on by the Permittee in connection herewith, and the Permittee hereby covenants and agrees to indemnify, defend, save and hold harmless the United States, its agents and employees from all liabilities, charges, expenses and costs on account of or by reason of any such injuries, deaths, liabilities, claims, suits or losses however occurring or damages growing out of the same.

25. **Permittee shall present to the National Park Service for review and approval any reports, studies, analyses or other deliverables pertaining to mishap site remediation derived in whole or in part from information or data gathered under this permit.**

26. **EMERGENCY ACCESS: The use of any wheeled vehicle, outside of the identified area of disturbance, is not permitted unless specifically authorized by the Superintendent in advance. Such authorized use will then be restricted to the surveyed route.**

27. **In the event of an emergency, the park will be notified at once, at telephone 505.679.2599.**

Version 02/19/2003 12:28 PM

WORK PLAN, QF-4 IMPACT

Motor vehicles including heavy equipment may leave maintained road via marked route to impact site and must remain within boundary established by National Park Service (NPS).

Air Force will test soil for radioactive contaminant and petroleum hydrocarbon and other relevant contaminants. Soil contaminated with radioactive material and soil containing greater than 1000 parts per million (ppm) petroleum contaminant will be removed from site, or upon agreement with NPS.

An inner perimeter line will be established marking an area within which solid debris material larger than 0.25 will be removed, to the satisfaction of NPS inspection. An outer perimeter line will be established marking the extent of the debris field. Within the outer line, material larger than 1 inch will be removed to satisfaction of NPS inspection.

Restoration:

- If contaminated soil is removed, site will be re-contoured to generally resemble original contours.
- No soil backfill is recommended at this time.
- No replanting is expected at this time.
- Access route from maintained road and debris field impact site will be raked out to obliterate all vehicle tire tracks.

APPENDIX B

DRONE CRASH SITE PHOTOGRAPHS

Photograph 1. Engine from F4 Drone at crash site

Photograph 2. Tail section showing horizontal elevators still intact at crash site

Photograph 3. Tire and miscellaneous debris at crash site

Photograph 4. Wing from F4 drone with other debris at crash site

Photograph 5. Burn area with debris at crash site

Photograph 6. Burn area with debris at crash site

Photograph 7. Burn area with debris at crash site

Photograph 8. Burn area with debris at crash site

APPENDIX C

DEPARTMENT OF AIR FORCE INCIDENT REPORT FOR QF4 DRONE CRASH SEPTEMBER 15, 2003

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 49TH FIGHTER WING (ACC)
HOLLOMAN AIR FORCE BASE, NEW MEXICO

15 September 2003

MEMORANDUM FOR AFMOA/SGZR
110 Luke Ave., Room 405
Bolling AFB, DC 20032-7050

FROM: 49 ADOS/SGGFB
280 First Street
Holloman AFB NM 88330

SUBJECT: Incident Report for QF-4 Drone Low Level Radioactive Waste Material

1. On 10 February 2003, a QF-4 drone crashed in what was at that time thought to be on the US Army's White Sands Missile Range (WSMR). The 49 FW Disaster Control Group (DCG), 49 CES, 49 CE Environmental, and Fire Department formed up and responded to the crash site. Upon arrival to the site, they were informed by WSMR that they were taking control over the accident. On 11 February 2003, in accordance with reporting criteria in AFI 40-201, *Managing Radioactive Materials in the US Air Force*, Major James Lohaus, the Radiation Safety Officer (RSO) for Holloman AFB, reported the incident to AFMOA/SGZR, and stated that the ultimate disposition of the radioactive materials would be forwarded once received from WSMR.

2. Sometime between 12 Feb 03 and 4 May 03, it was discovered that the debris was actually located on the adjacent White Sands National Monument (WSNM) property, and HAFB would be responsible for recovery. On May 5 and 7 2003, 49 MXG Crash and Recovery responded to the site, crated up the debris and transported it to HAFB. The RSO was not included in any coordination of the clean-up process, and was unaware that HAFB members were recovering the aircraft debris. The 49 MXG Crash and Recovery team collected the wreckage, placed small debris into crates, and large parts were lifted unto a flatbed truck. All parts were transported from WSNM using NM State Hwy 70, and entered HAFB through the West gate. MXS vehicles drove behind the flatbed during transport to pick up any debris that fell off the truck. There was no report of debris falling off the truck during the transport process. Large debris was covered with a tarp, but not sealed. All crash debris has been stored in a secured area located behind the horse stables on DeZonia Road, HAFB.

3. On 14 Jul 2003, the RSO contacted WSMR and inquired on the status of the report so the final report could be forwarded to AFMOA/SGZR. At this time the RSO was notified that in accordance with the MOA between HAFB and WSNM, the clean-up responsibility belonged to HAFB. The RSO conducted a post-incident survey to describe the human, environmental and statutory risks associated with the crash and subsequent recovery.

4. Below is a table list of the radioactive material on the QF-4 drone and location on the aircraft, per 88 ABW/EM.

Item	Isotope	Location	Comments
Engine Exciter	Cs-137	Engine component	
Engine Gear Cases	Th-232	Both Engines	Magnesium-Thorium Alloy
Engine Ignition Exciter	Unknown	Both Engines	
Engine Inlet Frame	Th-232	Both Engines	Magnesium-Thorium Alloy
Rain Removal Nozzle	Th-232		Magnesium-Thorium Alloy
Standby Compass	H-3	Aft Cockpit	
Standby Compass	H-3	Forward Cockpit	

5. Physical inspection of the debris revealed most of the structure to be in several large parts, with five crates containing smaller debris. Inspection of the radioactive parts revealed some to be intact, while other parts appeared to be sheared off, or broken.

6. Measurements of the debris on DeZonia Road were taken using an ADM-300 and Inovision 457P. The surfaces of the large pieces of the debris and the tops of the open crates containing pieces of smaller debris were surveyed. Average instrument's background readings measured were less than 0.10 mR/hr. A sheared engine exciter measured the highest reading of 0.5 mR/hr. (The Occupational Exposure Limit is 2 mR/hr). Based upon interviews, personnel protective equipment used, physical state of the debris and measurements taken, personnel exposure to the radioactive materials mentioned above are projected to be minimal.

7. As a result of this incident, the following actions were taken:

a. Ensured DCG procedures included RSO involvement prior to recovery of aircraft.

b. Ensured MXG OI's included requirements for RSO involvement during crash and recovery.

c. Briefed FW, MXG and MDG leadership of the incident, current requirements and health and statutory risks associated therewith.

d. Briefed MXG Crash and Recovery personnel on RSO requirements and health risks.

8. Once again, all crash debris is stored in a safe and secured area located behind the horse stables on DeZonia Road, HAFB. If you require additional information, please contact Major James Lohaus, Base Radiation Safety Officer Holloman AFB, NM at DSN: 572-7938.

JIM LOHAUS, Maj, USAF, BSC
Base Radiation Safety Officer

APPENDIX D

NEW MEXICO ENVIRONMENT DEPARTMENT TPH SCREENING GUIDELINES JUNE 24, 2003

NEW MEXICO ENVIRONMENT DEPARTMENT TPH SCREENING GUIDELINES
June 24, 2003

In some instances, it may be practical to assess areas of soil contamination that are the result of releases of petroleum products such as jet fuel and diesel, using total petroleum hydrocarbon (TPH) analyses. TPH results may be used to delineate the extent of petroleum-related contamination at these sites and ascertain if the residual level of petroleum products in soil represents an unacceptable risk to future users of the site. Petroleum hydrocarbons represent complex mixtures of compounds, some of which are regulated constituents and some compounds that are not regulated. In addition, the amount and types of the constituent compounds in a petroleum hydrocarbon release differ widely depending on what type of product was spilled and how the spill has weathered. This variability makes it difficult to determine the toxicity of weathered petroleum products in soil solely from TPH results; however, these results can be used to approximate risk in some cases, depending upon the nature of the petroleum product, the release scenario, how well the site has been characterized, and anticipated potential future land uses. In some cases, site clean up cannot be based solely on results of TPH sampling. NMED will make these determinations on a case by case basis, If NMED determines that additional data are necessary, then these TPH guidelines must be used in conjunction with the screening guidelines for individual petroleum-related contaminants in Table 3 and other contaminants, as applicable.

The screening levels for each petroleum carbon range from the Massachusetts Department of Environmental Protection (MADEP) Volatile Petroleum Hydrocarbons/Extractable Petroleum Hydrocarbons (VPH/EPH) approach and the percent composition table below were used to generate screening levels corresponding to total TPH. Except for waste oil, the information in the compositional assumptions table was obtained from Table 5-1 of the Massachusetts Department of Environmental Protection guidance document Implementation of the MADEP VPH/EPH Approach Final Draft June 2001. TPH toxicity was based only on the weighted sum of the toxicity of the hydrocarbon fractions listed in Table 1.

Table 1: TPH Compositional Assumptions in Soil

Petroleum Product	C11-C22 Aromatics	C9-C18 Aliphatics	C19-C36 Aliphatics
Diesel #2/ new crankcase oil	**60%**	**40%**	**0%**
#3 and #6 Fuel Oil	**70%**	**30%**	**0%**
Kerosene and jet fuel	**30%**	**70%**	**0%**
Mineral oil dielectric fluid	**20%**	**40%**	**40%**
Unknown oil[a]	**100%**	**0%**	**0%**
Waste Oil[b]	**0%**	**0%**	**100%**

[a] Sites with oil from unknown sources must be tested for VOCs, SVOCs, metals, and PCBs to determine if other potentially toxic constituents are present. The TPH guidelines in Table 2 are not designed to be protective of exposure to these constituents therefore they must be tested for, and compared to, their individual NMED soil screening guidelines.

[b] Compositional assumption for waste oil developed by NMED is based on review of chromatographs of several types of waste oil. Sites with waste oil must be tested for VOCs, SVOCs, metals, and PCBs to determine if other potentially toxic constituents are present. The TPH guidelines in Table 2 are not designed to be protective of exposure to these constituents therefore they must be tested for, and compared to, their individual NMED soil screening guidelines.

A TPH screening guideline was calculated for each of the types of petroleum product based on the assumed composition from the above table for petroleum products and the direct soil standards incorporating ceiling concentrations given in the MADEP VPH/EPH Excel spreadsheet for each of the carbon fractions. Ground water concentrations are based on the weighted sum of the noncarcinogenic toxicity of the petroleum fractions assuming the water is drinking water.

Table 2: TPH Screening Guidelines

Petroleum Product	TPH		Concentration in Ground Water (mg/L)
	Residential Direct Exposure (mg/kg)	Industrial Direct Exposure (mg/kg)	
Diesel #2/crankcase oil	880	2200	1.8
#3 and #6 Fuel Oil	860	2150	1.4
Kerosene and jet fuel	940	2350	3.0
Mineral oil dielectric fluid	1560	3400	3.7
Unknown oil[a]	800	2000	2.3
Waste Oil[b]	2500	5000	Petroleum-Related Contaminants
Gasoline	Not applicable	Not applicable	Petroleum-Related Contaminants

Mineral oil based hydraulic fluids can be evaluated for petroleum fraction toxicity using the screening guidelines from Table 2 specified for waste oil, because this type of hydraulic fluid is composed of approximately the same range of carbon fractions as waste oil. However, these hydraulic fluids often contain proprietary additives that may be significantly more toxic than the oil itself; these additives must be considered on a site- and product-specific basis (see ATSDR hydraulic fluids profile reference). **Use of alternate screening guideline values requires prior written approval from the New Mexico Environment Department.** TPH screening guidelines in Table 2 must be used in conjunction with the screening levels for petroleum-related contaminants given in Table 3 because the TPH screening levels are NOT designed to be protective of exposure to these individual petroleum-related contaminants. Table 3 petroleum related contaminants screening levels are based on the New Mexico Environment Department soil screening levels (NMED SSLs) released in December of 2000.

The list of petroleum-related contaminants does not include PAHs with individual screening levels that would exceed the total TPH screening levels (acenaphthene, anthracene, flouranthene, flourene, and pyrene). In addition, these TPH screening guidelines are based solely on human health, not ecological risk considerations, protection of surface water, or potential indoor air impacts from soil vapors. Potential soil vapor impacts to structures or utilities are not addressed by these guidelines. Site-specific investigations for potential soil vapor impacts to structures or utilities must be done to assure that screenings are consistently protective of human health, welfare or use of the property. NMED believes that use of these screening guidelines will allow more efficient screenings of petroleum release sites at sites while protecting human health and the environment. Copies of the references cited below are available on the MADEP website at http://www.state.ma.us/dep/bwsc/vph_eph.htm and the NMED website at http://www.nmenv.state.nm.us/HWB/guidance.html.

Table 3. Petroleum-Related Contaminants Screening Guidelines

Petroleum-Related Contaminants	Values for Direct Exposure to Soil		NMED DAF 20 GW protection (mg/kg in soil)	NMED DAF 1[f] GW protection (mg/kg in soil)
	NMED residential SSL (mg/kg)	NMED Indus. SSL (mg/kg)		
Benzene	6	14	0.06	0.003
Toluene	180	180	5	0.2
Ethyl benzene	68	68	8	0.4
Xylene	63	63	100	5
Naphthalene	53	180	0.2	0.01
2-methyl naphthalene	1000[e]	2500[e]	---[e]	---[e]
Benzo(a)anthracene	6.2	26	40	2
Benzo(b)fluoranthene	6.2	26	20	0.8
Benzo(k)fluoranthene	62	260	200	8
Benzo(a)pyrene	0.62	2.6	100	6
Chrysene	610	2500	1000	50
Dibenz(a,h) anthracene	0.62	2.6	9	0.5
Indeno(1,2,3-c,d)pyrene	6.2	26	40	2

[e] no NMED value available, value taken from MADEP paper
[f] for contaminated soil in contact with ground water

References

Agency for Toxic Substances and Disease Registry (ATSDR). 1997. Toxicological Profile for Hydraulic fluids.

Massachusetts Department of Environmental Protection, Bureau of Waste Site Cleanup and Office of Research and Standards. 1994. "Background Documentation for the Development of the MCP Numerical Standards."

Massachusetts Department of Environmental Protection, Bureau of Waste Site Cleanup and Office of Research and Standards. 2001. "Characterizing Risks Posed by Petroleum Contaminated Sites: Implementation of the MADEP VPH/EPH Approach Final Draft June 2001."

New Mexico Environment Department, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program. 2000. "Technical Background Document for Development of Soil Screening Levels." Document # NMED-00-008.

APPENDIX E

NEW MEXICO ENVIRONMENT DEPARTMENT SOIL SCREENING LEVELS FEBRUARY, 2004 REVISION 2.0

Appendix A

State of New Mexico Soil Screening Levels

Table A-1 provides State of New Mexico Soil Screening Levels (SSLs), as developed by the New Mexico Environment Department (NMED) Hazardous Waste Bureau (HWB) and the Ground Water Quality Bureau Voluntary Remediation Program for 206 chemicals most commonly associated with environmental releases within the state. These NMED SSLs are derived using default exposure parameter values (as presented in Table A-2) and chemical- and State of New Mexico-specific physical parameters (as presented in Table B-1 of Appendix B). These default values are assumed to be appropriately conservative in the face of uncertainty and are likely to be protective for the majority of site conditions relevant to soil exposures within New Mexico.

However, the NMED SSLs are not necessarily protective of all known human exposure pathways, reasonable land uses or ecological threats. Thus, before applying NMED SSLs at a site, it is extremely important to compare the conceptual site model (CSM) with the assumptions upon which the NMED SSLs are predicated to ensure that the site conditions and exposure pathways match those used to develop the NMED SSLs. If this comparison indicates that the site at issue is more complex than the corresponding SSL scenarios, or that there are significant exposure pathways not accounted for by the NMED SSLs, then the NMED SSLs are insufficient for use in a defensible assessment of the site. A more detailed site-specific approach will be necessary to evaluate the additional pathways or site conditions.

Table A-1

Column 1: The first column in Table A-1 presents the names of the 206 chemicals for which NMED has developed SSLs.

Column 2: The second column presents NMED SSLs predicated on residential soil exposures.

Column 3: The third column presents indicator categories for the NMED SSL residential basis, whether predicated on carcinogenic effects (ca), noncarcinogenic effects (nc), soil saturation limits (sat) or a non-risk based "max" determination. NMED SSLs predicated on a carcinogenic endpoint reflect age-adjusted child-to-adult exposures. NMED SSLs predicated on a noncarcinogenic endpoint reflect child-only exposures. Detected concentrations above the "sat" value may indicate the presence of nonaqueous phase liquid (NAPL). For certain inorganic and semivolatile organic compounds (SVOCs) that exhibit relatively low toxicity, a non risk-based maximum concentration of 10^5 mg/kg is given when the risk-based SSL exceeds that level. These are noted as "max" in the tables.

Columns 4 and 6: The fourth and sixth columns present NMED SSLs analogous to Column 1, with the exception that these values correspond to Industrial/Occupational and Construction worker (adult-only) exposures, respectively.

Columns 5 and 7: The fifth and seventh columns present endpoint bases analogous to Column 3

for the Industrial/Occupational and Construction worker receptor populations, respectively. Unlike the Residential population, noncarcinogenic endpoint notes for these receptor populations are predicated on adult-only exposures.

Column 8: The eighth column notes which chemicals are considered VOCs (for inhalation considerations). Those chemicals not considered VOCs are evaluated within the SSLs relative to inhalation of particulate emissions.

Columns 9 and 10: The ninth column presents NMED SSLs for the migration to groundwater pathway developed using a default dilution attenuation factor (DAF) of 1, which assumes no effective dilution or attenuation. These values can be considered at sites where little or no dilution or attenuation of soil leachate concentrations is expected (e.g., shallow water tables, karst topography). Column 10 presents NMED SSLs for the migration to groundwater pathway developed using a DAF of 20 to account for natural processes that reduce contaminant concentrations in the subsurface.

As noted above, separate NMED SSLs are presented for use in evaluating three discrete potential receptor populations: Residential, Industrial/Occupational, and Construction. Each NMED SSL considers incidental ingestion of soil, inhalation of volatiles (limited to those chemicals noted as volatile organic compounds [VOCs] within Table A-1) or particulate emissions from impacted soil, and dermal contact with soil.

Generally, if a contaminant is detected at a level in soil exceeding the most relevant NMED SSL, and the site-specific CSM is in general agreement with the underlying assumptions upon which the NMED SSLs are predicated, this result indicates the potential for adverse human health effects to occur. Conversely, if no contaminants are detected above the most relevant NMED SSL, this tends to indicate to the user that environmental conditions may not necessitate remedial action of the surface soil or the vadose zone.

A detection above an NMED SSL does not indicate that unacceptable exposures are, in fact, occurring. The NMED SSLs are predicated on relatively conservative exposure assumptions and an exceedance only tends to indicate the potential for adverse effects. The NMED SSLs do not account for additive exposures, whether for carcinogenic or noncarcinogenic endpoints. Section 5 of Part A addresses a methodology by which an environmental manager may determine whether further site-evaluation is warranted, however, this methodology does not replace the need for defensible risk assessment where indicated.

The NMED SSLs address a basic subset of exposures fundamental to the widest array of environmentally-impacted sites within the State of New Mexico. The NMED SSLs cannot address all relevant exposure pathways associated with all sites. The utility of the NMED SSLs depends heavily upon the understanding of site conditions as accurately reflected in the CSM and nature and extent of contamination determinations. Consideration of the NMED SSLs does not preclude the need for site-specific risk assessment in all instances.

Table A-1
NMED Soil Screening Levels

Chemical	Residential Soil (mg/kg)	Endpoint	Industrial/ Occupational Soil (mg/kg)	Endpoint	Construction Worker Soil (mg/kg)	Endpoint	VOC	DAF 1 (mg/kg)	DAF 20 (mg/kg)
Acenaphthene	4.69E+03	nc	3.48E+04	nc	1.44E+04	nc	X	3.99E+00	7.98E+01
Acetaldehyde	9.43E+01	nc	3.42E+02	nc	3.08E+02	nc	X	3.32E-04	6.63E-03
Acetone	7.04E+04	nc	1.00E+05	sat	1.00E+05	sat	X	1.03E-01	2.06E+00
Acrylonitrile	3.96E+00	ca	1.15E+01	ca	5.22E+01	nc	X	6.61E-06	1.32E-04
Acetophenone	1.31E+03	sat	1.31E+03	sat	1.31E+03	sat	X		
Acrolein	1.84E-01	nc	6.70E-01	nc	6.01E-01	nc	X	8.39E-06	1.68E-04
Aldrin	2.84E-01	ca	1.12E+00	ca	6.99E+00	nc		1.47E-02	2.94E-01
Aluminum	7.78E+04	nc	1.00E+05	max	1.44E+04	nc		7.50E+03	1.50E+05
Anthracene	2.35E+04	nc	2.64E+05	nc	8.53E+04	nc	X	8.00E+01	1.60E+03
Antimony	3.13E+01	nc	4.54E+02	nc	1.24E+02	nc		2.71E-01	5.42E+00
Arsenic	3.90E+00	ca	1.77E+01	ca	8.52E+01	nc		2.92E+00	5.83E+01
Barium	5.45E+03	nc	7.83E+04	nc	1.44E+03	nc		4.12E+01	8.23E+02
Benzene	2.70E+01	ca	7.36E+01	ca	1.57E+02	nc	X	1.41E-03	2.83E-02
Benzidine	2.11E-02	ca	8.33E-02	ca	7.09E-01	ca			
Benzo(a)anthracene	6.21E+00	ca	2.34E+01	ca	2.14E+02	ca		5.49E-02	1.10E+00
Benzo(a)pyrene	6.21E-01	ca	2.34E+00	ca	2.14E+01	ca		3.06E-01	6.12E+00
Benzo(b)fluoranthene	6.21E+00	ca	2.34E+01	ca	2.14E+02	ca		1.70E-01	3.40E+00
Benzo(k)fluoranthene	6.21E+01	ca	2.34E+02	ca	2.14E+03	ca		1.70E+00	3.40E+01
Beryllium	1.56E+02	nc	2.25E+03	nc	5.62E+01	nc		3.16E+00	6.32E+01
α-BHC	9.02E-01	ca	3.99E+00	ca	3.00E+01	ca		2.21E-05	4.43E-04
β-BHC	3.16E+00	ca	1.40E+01	ca	5.39E+01	nc		7.61E-05	1.52E-03
γ-BHC	4.37E+00	ca	1.93E+01	ca	8.09E+01	nc		3.55E-04	7.09E-03
1,1-Biphenyl	8.90E+01	sat	8.90E+01	sat	8.90E+01	sat	X	3.56E+00	7.12E+01
Bis(2-chloroethyl) ether	2.04E+00	ca	5.95E+00	ca	9.09E+01	ca	X	1.87E-06	3.75E-05
Bis(2-chloroisopropyl) ether	3.13E+03	nc	6.19E+03	nc	4.24E+03	nc	X	7.04E-05	1.41E-03
Bis(2-ethylhexyl) phthalate	3.47E+02	ca	1.37E+03	ca	4.66E+03	nc		1.09E+02	2.17E+03
Bis(chloromethyl) ether	4.26E-03	ca	1.10E-02	ca	2.11E-01	ca	X	8.87E-09	1.77E-07
Boron	5.50E+03	nc	6.16E+04	nc	2.14E+04	nc			

Chemical	Residential Soil (mg/kg)	Endpoint	Industrial/ Occupational Soil (mg/kg)	Endpoint	Construction Worker Soil (mg/kg)	Endpoint	VOC	DAF 1 (mg/kg)	DAF 20 (mg/kg)
Bromobenzene	3.32E+01	nc	1.22E+02	nc	1.09E+02	nc	X	1.03E-02	2.06E-01
Bromodichloromethane	1.03E+02	ca	5.13E+02	ca	1.05E+03	nc	X	4.64E-05	9.28E-04
Bromomethane	7.62E+00	nc	2.92E+01	nc	2.52E+01	nc	X	1.84E-03	3.67E-02
1,3-Butadiene	8.91E-01	ca	2.13E+00	ca	4.11E+00	nc	X	1.32E-05	2.63E-04
2-Butanone (MEK)	5.73E+02	nc	2.10E+03	nc	1.88E+03	nc	X	3.32E-01	6.63E+00
tert-Butyl methyl ether (MTBE)	9.80E+02	ca	3.18E+03	ca	4.07E+04	ca	X	2.33E-03	4.67E-02
n-Butylbenzene	6.20E+01	sat	6.20E+01	sat	6.20E+01	sat	X	1.06E+00	2.13E+01
sec-Butylbenzene	6.05E+01	sat	6.05E+01	sat	6.05E+01	sat	X	8.54E-01	1.71E+01
tert-Butylbenzene	1.06E+02	sat	1.06E+02	sat	1.06E+02	sat	X	8.47E-01	1.69E+01
Cadmium[a]	7.41E+01	nc	8.60E+03	nc	4.74E-03	nc		3.76E-01	7.52E+00
Carbon disulfide	3.76E+03	nc	2.14E+04	nc	1.34E+04	nc	X	3.76E-01	7.52E+00
Carbon tetrachloride	3.13E+00	ca	7.75E+00	ca	9.06E+00	nc	X	2.87E-03	5.74E-02
Chlordane	1.62E+01	ca	7.19E+01	ca	1.30E+02	nc		3.61E-01	7.21E+00
2-Chloroacetophenone	4.07E-02	nc	1.48E-01	nc	1.33E-01	nc	X	4.35E-05	8.70E-04
2-Chloro-1,3-butadiene	5.64E+00	nc	2.05E+01	nc	1.84E+01	nc	X	5.51E-03	1.10E-01
1-Chloro-1,1-difluoroethane	2.05E+02	sat	1.00E+05	sat	1.00E+05	sat	X	6.36E+01	1.27E+03
Chlorobenzene	1.76E+02	nc	2.42E+02	sat	2.42E+02	sat	X	5.14E-02	1.03E+00
1-Chlorobutane	2.91E+02	sat	2.91E+02	sat	2.91E+02	sat	X	9.45E-01	1.89E+01
Chlorodifluoromethane	2.05E+02	sat	1.00E+05	sat	1.00E+05	sat	X	6.21E+01	1.24E+03
Chloroethane	1.38E+03	sat	1.38E+03	sat	1.38E+03	sat	X	1.12E-03	2.23E-02
Chloroform	3.56E+00	ca	8.52E+00	ca	1.88E+01	nc	X	2.45E-02	4.90E-01
Chloromethane	1.95E+01	ca	4.77E+01	ca	2.53E+02	nc	X	5.01E-04	1.00E-02
β-Chloronaphthalene	6.26E+03	nc	2.58E+04	nc	1.40E+04	nc	X	1.26E+00	2.52E+01
o-Chloronitrobenzene	1.69E+00	nc	6.23E+00	nc	5.54E+00	nc	X	3.98E-05	7.96E-04
p-Chloronitrobenzene	1.24E+01	nc	5.09E+01	nc	4.15E+01	nc	X	3.18E-04	6.37E-03
2-Chlorophenol	3.91E+02	nc	8.07E+02	nc	5.47E+02	nc	X	2.31E-02	4.62E-01
2-Chloropropane	2.87E+02	nc	6.89E+02	sat	6.89E+02	sat	X	4.34E-02	8.68E-01
o-Chlorotoluene	1.56E+03	nc	7.74E+02	nc	6.46E+02	nc	X	5.09E-02	1.02E+00
Chromium III	1.00E+05	max	1.00E+05	max	1.00E+05	max		9.90E+06	1.98E+08
Chromium VI	2.34E+02	nc	3.40E+03	nc	1.80E+02	ca		9.58E-01	1.92E+01
Chrysene	6.21E+02	ca	2.34E+03	ca	2.14E+04	ca	X	5.49E+00	1.10E+02

Chemical	Residential Soil (mg/kg)	Endpoint	Industrial/ Occupational Soil (mg/kg)	Endpoint	Construction Worker Soil (mg/kg)	Endpoint	VOC	DAF 1 (mg/kg)	DAF 20 (mg/kg)
Cobalt	1.52E+03	nc	2.05E+04	nc	6.10E+01	nc		2.26E+00	4.52E+01
Copper	3.13E+03	nc	4.54E+04	nc	1.24E+04	nc		3.52E+01	7.03E+02
Crotonaldehyde	3.37E+00	ca	1.67E+01	ca	5.18E+01	sat	X	1.53E-05	3.06E-04
Cumene (isopropylbenzene)	7.00E+02	nc	2.73E+03	nc	2.32E+03	nc	X	3.65E-01	7.29E+00
Cyanide	1.56E+03	nc	2.27E+04	nc	6.19E+03	nc		3.88E-02	7.75E-01
Cyanogen	3.13E+03	nc	8.22E+02	nc	7.11E+02	nc	X	5.55E-02	1.11E+00
Cyanogen bromide	7.04E+03	nc	1.85E+03	nc	1.60E+03	nc	X	1.27E-01	2.54E+00
Cyanogen chloride	3.91E+03	nc	1.03E+03	nc	8.88E+02	nc	X	6.93E-02	1.39E+00
DDD	2.44E+01	ca	1.11E+02	ca	8.29E+02	ca		4.20E-01	8.40E+00
DDE	1.72E+01	ca	7.81E+01	ca	5.85E+02	ca		1.34E+00	2.68E+01
DDT	1.72E+01	ca	7.81E+01	ca	1.38E+02	nc		7.89E-01	1.58E+01
Dibenz(a,h)anthracene	6.21E-01	ca	2.34E+00	ca	2.14E+01	ca		5.24E-02	1.05E+00
Dibenzofuran	3.13E+02	nc	3.17E+03	nc	1.09E+03	nc	X	2.85E-01	5.70E+00
1,2-Dibromo-3-chloropropane	3.64E+00	nc	1.32E+01	nc	1.19E+01	nc	X	1.01E-05	2.02E-04
Dibromochloromethane	7.62E+01	ca	3.79E+02	ca	1.39E+03	nc	X	1.14E-04	2.28E-03
1,2-Dibromoethane	7.14E-02	ca	3.36E-01	ca	2.47E+00	ca	X	2.11E-05	4.23E-04
1,4-Dichloro-2-butene	1.33E-01	ca	3.17E-01	ca	7.14E+00	ca	X	2.89E-07	5.78E-06
1,2-Dichlorobenzene	1.16E+02	sat	1.16E+02	sat	1.16E+02	sat	X	4.46E-01	8.93E+00
1,3-Dichlorobenzene	7.04E+01	nc	7.39E+01	nc	5.70E+01	nc	X	6.09E-03	1.22E-01
1,4-Dichlorobenzene	3.60E+01	ca	8.14E+01	sat	8.14E+01	sat	X	8.27E-02	1.65E+00
3,3-Dichlorobenzidine	1.08E+01	ca	4.26E+01	ca	3.71E+02	ca		1.88E-04	3.76E-03
Dichlorodifluoromethane	1.44E+02	nc	2.05E+02	sat	2.05E+02	sat	X	2.85E-01	5.70E+00
1,1-Dichloroethane	8.20E+02	nc	1.22E+03	sat	1.22E+03	sat	X	6.05E-03	1.21E-01
1,2-Dichloroethane	5.07E+00	ca	1.26E+01	ca	5.33E+01	nc	X	9.92E-04	1.98E-02
cis-1,2-Dichloroethene	7.82E+02	nc	2.67E+02	nc	2.28E+02	nc	X	1.68E-02	3.37E-01
trans-1,2-Dichloroethene	1.56E+03	nc	3.98E+02	nc	3.44E+02	nc	X	2.91E-02	5.82E-01
1,1-Dichloroethene	1.82E+02	nc	6.86E+02	nc	6.01E+02	nc	X	1.92E-03	3.84E-02
2,4-Dichlorophenol	1.80E+02	nc	2.05E+03	nc	6.99E+02	nc		1.22E-02	2.45E-01
1,2-Dichloropropane	1.00E+01	nc	3.64E+01	nc	3.28E+01	nc	X	3.94E-05	7.89E-04
1,3-Dichloropropene	1.13E+01	ca	2.98E+01	ca	8.38E+01	nc	X	1.28E-04	2.56E-03
Dicyclopentadiene	2.35E+03	nc	2.13E+00	nc	1.92E+00	nc	X	4.51E-04	9.02E-03

Chemical	Residential Soil (mg/kg)	Endpoint	Industrial/ Occupational Soil (mg/kg)	Endpoint	Construction Worker Soil (mg/kg)	Endpoint	VOC	DAF 1 (mg/kg)	DAF 20 (mg/kg)
Dieldrin	3.04E-01	ca	1.20E+00	ca	1.02E+01	ca		1.36E-04	2.71E-03
Diethyl phthalate	4.80E+04	nc	1.00E+05	max	1.00E+05	max		1.74E+01	3.48E+02
Dimethyl phthalate	1.00E+05	max	1.00E+05	max	1.00E+05	max		1.66E+02	3.31E+03
Di-n-butyl phthalate	6.00E+03	nc	6.84E+04	nc	2.33E+04	nc		1.84E+02	3.67E+03
2,4-Dimethylphenol	1.20E+03	nc	1.37E+04	nc	4.66E+03	nc		4.27E-02	8.54E-01
2,4-Dinitrotoluene	1.20E+02	nc	1.37E+03	nc	4.66E+02	nc		2.27E-02	4.54E-01
1,2-Diphenylhydrazine	6.08E+00	ca	2.39E+01	ca	2.04E+02	ca		9.73E-05	1.95E-03
Endosulfan	3.60E+02	nc	4.10E+03	nc	1.40E+03	nc		7.43E-01	1.49E+01
Endrin	1.80E+01	nc	2.05E+02	nc	6.99E+01	nc		3.72E-02	7.45E-01
Epichlorohydrin	1.51E+01	nc	5.90E+01	nc	5.01E+01	nc	X	3.46E-04	6.93E-03
Ethyl acetate	7.04E+04	nc	1.00E+05	sat	2.06E+04	sat	X	1.41E+00	2.83E+01
Ethyl acrylate	5.13E+01	sat	6.62E+02	ca	4.52E+03	ca	X	5.90E-04	1.18E-02
Ethyl chloride	1.38E+03	sat	1.38E+03	sat	7.48E+04	ca	X	1.12E-03	2.23E-02
Ethyl ether	1.89E+03	sat	1.89E+03	sat	1.89E+03	sat	X	2.27E-01	4.53E+00
Ethyl methacrylate	5.18E+01	sat	5.18E+01	sat	5.18E+01	sat	X	1.42E+00	2.85E+01
Ethylbenzene	1.06E+04	ca	2.54E+04	ca	5.71E+05	ca	X	5.25E-01	1.05E+01
Ethylene oxide	2.47E+00	ca	7.39E+00	ca	1.08E+02	ca	X	4.11E-06	8.23E-05
Fluoranthene	2.25E+03	nc	2.44E+04	nc	8.73E+03	nc		2.41E+02	4.82E+03
Fluorene	3.13E+03	nc	2.94E+04	nc	1.06E+04	nc	X	5.01E+00	1.00E+02
Furan	7.82E+01	nc	1.88E+01	nc	1.63E+01	nc	X	1.29E-03	2.58E-02
Heptachlor	1.08E+00	ca	4.26E+00	ca	3.63E+01	ca			
Hexachlorobenzene	3.04E+00	ca	1.20E+01	ca	1.02E+02	ca		8.27E-02	1.65E+00
Hexachloro-1,3-butadiene	1.20E+01	nc	1.37E+02	nc	4.66E+01	nc		8.08E-02	1.62E+00
Hexachlorocyclopentadiene	1.25E+02	nc	4.10E+03	nc	4.31E+02	nc		1.50E+01	3.00E+02
Hexachloroethane	6.00E+01	nc	6.84E+02	nc	2.33E+02	nc		1.37E-02	2.74E-01
n-Hexane	3.80E+01	sat	3.80E+01	sat	3.80E+01	sat	X	7.29E-01	1.46E+01
HMX	3.00E+03	nc	3.42E+04	nc	1.17E+04	nc			
Hydrogen cyanide	1.99E+01	nc	7.31E+01	nc	6.53E+01	nc	X	1.20E-03	2.40E-02
Indeno(1,2,3-c,d)pyrene	6.21E+00	ca	2.34E+01	ca	2.14E+02	ca		4.79E-01	9.58E+00
Iron	2.35E+04	nc	1.00E+05	max	9.29E+04	nc		3.27E+00	6.54E+01
Isobutanol	2.22E+04	sat	2.22E+04	sat	2.22E+04	sat	X	4.69E-01	9.39E+00

Chemical	Residential Soil (mg/kg)	Endpoint	Industrial/ Occupational Soil (mg/kg)	Endpoint	Construction Worker Soil (mg/kg)	Endpoint	VOC	DAF 1 (mg/kg)	DAF 20 (mg/kg)
Isophorone	5.12E+03	ca	2.02E+04	ca	4.66E+04	nc		1.69E-02	3.38E-01
Lead	4.00E+02		7.50E+02	nc	7.50E+02	nc		4.58E-01	9.17E+00
Lead (tetraethyl-)	6.11E-03	nc	6.84E-02	nc	2.38E-02	nc			
Maleic hydrazide	1.57E+03	sat	1.57E+03	sat	1.57E+03	sat	X	7.86E-01	1.57E+01
Manganese	1.55E+03	nc	2.18E+04	nc	1.48E+02	nc		5.24E-02	1.05E+00
Mercury (elemental)	1.00E+05	max	3.41E+02	nc	8.44E+01	nc			
Mercury (methyl)	6.11E+00	nc	6.84E+01	nc	2.38E+01	nc			
Methacrylonitrile	3.61E+00	nc	2.00E+01	nc	1.28E+01	nc	X	1.69E-04	3.39E-03
Methomyl	1.96E+03	nc	2.83E+02	nc	2.49E+02	nc	X	5.64E-02	1.13E+00
Methyl acetate	7.82E+04	nc	1.00E+05	sat	1.00E+05	nc	X	1.03E+02	2.06E+03
Methyl acrylate	2.35E+03	nc	3.12E+02	nc	2.75E+02	nc	X	4.62E-01	9.24E+00
Methyl isobutyl ketone	5.43E+03	nc	6.90E+03	sat	6.90E+03	sat	X	5.81E-02	1.16E+00
Methyl methacrylate	2.83E+03	sat	2.83E+03	sat	2.83E+03	sat	X	2.64E-01	5.29E+00
Methyl styrene (alpha)	2.16E+02	sat	2.16E+02	sat	2.16E+02	sat	X	3.09E-01	6.18E+00
Methyl styrene (mixture)	1.28E+02	nc	2.16E+02	sat	2.16E+02	sat	X	4.31E-02	8.62E-01
Methylcyclohexane	2.10E+03	nc	7.63E+03	nc	6.87E+03	nc	X	1.35E+01	2.69E+02
Methylene bromide	1.12E+02	nc	4.54E+02	nc	3.74E+02	nc	X	1.28E-02	2.56E-01
Methylene chloride	1.65E+02	ca	4.40E+02	ca	2.55E+03	sat	X	8.44E-04	1.69E-02
Molybdenum	3.91E+02	nc	5.68E+03	nc	1.55E+03	nc		2.02E+01	4.03E+02
Naphthalene	7.19E+01	nc	9.83E+01	sat	9.83E+01	sat	X	1.97E-02	3.93E-01
Nickel	1.56E+03	nc	2.25E+04	nc	5.61E+02	nc		1.30E+01	2.61E+02
Nitrate	1.00E+05	max	1.00E+05	max	1.00E+05	max			
Nitrite	7.82E+03	nc	1.00E+05	max	3.10E+04	nc			
Nitrobenzene	2.18E+01	nc	1.36E+02	nc	7.89E+01	nc	X	9.00E-04	1.80E-02
Nitroglycerin	3.47E+02	ca	1.37E+03	ca	1.19E+04	ca			
N-Nitrosodiethylamine	3.24E-02	ca	1.28E-01	ca	1.09E+00	ca			
N-Nitrosodimethylamine	9.54E-02	ca	3.76E-01	ca	3.20E+00	ca		1.15E-06	2.31E-05
N-Nitrosodi-*n*-butylamine	2.48E-01	ca	6.67E-01	ca	1.16E+01	ca	X	1.12E-06	2.24E-05
N-Nitrosodiphenylamine	9.93E+02	ca	3.91E+03	ca	3.40E+04	ca		2.94E-02	5.89E-01
N-Nitrosopyrrolidine	2.32E+00	ca	9.12E+00	ca	7.77E+01	ca			
m-Nitrotoluene	4.10E+02	nc	5.57E+02	sat	5.57E+02	sat	X	1.62E-02	3.24E-01

Chemical	Residential Soil (mg/kg)	Endpoint	Industrial/ Occupational Soil (mg/kg)	Endpoint	Construction Worker Soil (mg/kg)	Endpoint	VOC	DAF 1 (mg/kg)	DAF 20 (mg/kg)
o-Nitrotoluene	4.10E+02	nc	5.57E+02	sat	5.57E+02	sat	X	1.62E-02	3.24E-01
p-Nitrotoluene	4.10E+02	nc	5.57E+02	sat	5.57E+02	sat	X	1.62E-02	3.24E-01
Pentachlorobenzene	4.80E+01	nc	5.47E+02	nc	1.86E+02	nc		1.00E+00	2.00E+01
Pentachlorophenol	2.98E+01	ca	1.00E+02	ca	1.03E+03	ca		1.06E-03	2.11E-02
Phenanthrene	1.80E+03	nc	2.05E+04	nc	6.99E+03	nc		3.81E+00	7.62E+01
Phenol	1.80E+04	nc	1.00E+05	max	6.99E+04	nc		1.05E-03	2.11E-02
Polychlorinatedbiphenyls		ca		ca		ca			
Aroclor 1016	2.22E+00	ca	8.26E+00	ca	1.50E+01	nc			
Aroclor 1221	2.22E+00	ca	8.26E+00	ca	7.61E+01	ca			
Aroclor 1232	2.22E+00	ca	8.26E+00	ca	7.61E+01	ca			
Aroclor 1242	2.22E+00	ca	8.26E+00	ca	7.61E+01	ca			
Aroclor 1248	2.22E+00	ca	8.26E+00	ca	7.61E+01	ca			
Aroclor 1254	1.11E+00	nc	8.26E+00	ca	4.28E+00	nc			
Aroclor 1260	2.22E+00	ca	8.26E+00	ca	7.61E+01	ca			
n-Propylbenzene	5.32E+01	sat	5.32E+01	sat	5.32E+01	sat	X	1.06E+00	2.13E+01
Propylene oxide	2.17E+01	ca	9.01E+01	ca	7.91E+02	ca	X	4.52E-05	9.05E-04
Pyrene	2.30E+03	nc	3.13E+04	nc	9.05E+03	nc	X	2.84E+01	5.68E+02
RDX	4.42E+01	ca	1.74E+02	ca	6.99E+02	nc			
Selenium	3.91E+02	nc	5.68E+03	nc	1.55E+03	nc		2.58E-01	5.17E+00
Silver	3.91E+02	nc	5.68E+03	nc	1.55E+03	nc		4.23E-01	8.47E+00
Strontium	4.69E+04	nc	1.00E+05	max	1.00E+05	max		2.03E+02	4.06E+03
Styrene	4.19E+02	sat	4.19E+02	sat	4.19E+02	sat	X	1.35E-01	2.70E+00
1,2,4,5-Tetrachlorobenzene	1.80E+01	nc	2.05E+02	nc	6.99E+01	nc			
1,1,1,2-Tetrachloroethane	3.93E+01	ca	1.03E+02	ca	8.55E+02	sat	X	1.33E-04	2.66E-03
1,1,2,2-Tetrachloroethane	5.20E+00	ca	1.36E+01	ca	2.56E+02	ca	X	1.70E-05	3.40E-04
Tetrachloroethene	9.83E+00	ca	2.46E+01	ca	9.76E+01	sat	X	3.22E-04	6.44E-03
Thallium	5.16E+00	nc	7.49E+01	nc	2.04E+01	nc		1.42E-01	2.85E+00
Toluene	2.48E+02	sat	2.48E+02	sat	2.48E+02	sat	X	3.40E-01	6.80E+00
Toxaphene	4.42E+00	ca	1.74E+01	ca	1.48E+02	ca		2.35E-02	4.71E-01
Tribromomethane	8.11E+02	ca	4.02E+03	ca	6.02E+03	nc		3.01E-02	6.02E-01
1,1,2-Trichloro-1,2,2-trifluoroethane	3.18E+03	max	1.00E+05	max	1.00E+05	max	X		

Chemical	Residential Soil (mg/kg)	Endpoint	Industrial/ Occupational Soil (mg/kg)	Endpoint	Construction Worker Soil (mg/kg)	Endpoint	VOC	DAF 1 (mg/kg)	DAF 20 (mg/kg)
1,2,4-Trichlorobenzene	6.51E+02	nc	8.53E+02	sat	8.53E+02	sat	X	1.99E-01	3.98E+00
1,1,1-Trichloroethane	5.51E+02	sat	5.51E+02	sat	5.51E+02	sat	X	2.49E-02	4.98E-01
1,1,2-Trichloroethane	1.07E+01	ca	2.70E+01	ca	1.75E+02	nc	X	1.24E-03	2.47E-02
Trichloroethene	6.48E-01	ca	1.59E+00	ca	3.41E+01	ca	X	2.33E-03	4.66E-02
Trichlorofluoromethane	5.28E+02	nc	9.59E+02	sat	9.59E+02	sat	X	1.13E+00	2.27E+01
2,4,5-Trichlorophenol	6.00E+03	nc	6.84E+04	nc	2.33E+04	nc		9.24E+00	1.85E+02
2,4,6-Trichlorophenol	6.00E+00	nc	6.84E+01	nc	2.33E+01	nc		2.66E-03	5.32E-02
1,1,2-Trichloropropane	2.27E+01	nc	8.61E+01	nc	7.49E+01	nc	X	1.15E-02	2.30E-01
1,2,3-Trichloropropane	3.20E+00	ca	1.59E+01	ca	1.69E+01	nc	X	2.08E-06	4.17E-05
1,2,3-Trichloropropene	1.78E+01	nc	6.67E+01	nc	5.85E+01	nc	X	1.12E-02	2.23E-01
Triethylamine	6.36E+01	nc	2.31E+02	nc	2.08E+02	nc	X	2.06E-03	4.12E-02
1,2,4-Trimethylbenzene	5.22E+01	nc	1.91E+02	nc	1.71E+02	nc	X	6.89E-02	1.38E+00
1,3,5-Trimethylbenzene	2.23E+01	nc	6.89E+01	sat	6.89E+01	sat	X	1.72E-02	3.44E-01
2,4,6-Trinitrotoluene	3.00E+01	nc	3.42E+02	nc	1.17E+02	nc			
Vanadium	5.48E+02	nc	7.95E+03	nc	2.17E+03	nc		4.03E+01	8.07E+02
Vinyl acetate	9.53E+02	nc	3.49E+03	nc	3.12E+03	nc	X	7.30E-02	1.46E+00
Vinyl bromide	5.67E+00	nc	2.06E+01	nc	1.85E+01	nc	X	3.93E-05	7.86E-04
Vinyl chloride (Child)	3.49E-01	ca							
Vinyl chloride (adult)			1.30E+01	ca	1.74E+02	ca	X	3.25E-04	6.49E-03
m-Xylene	8.00E+01	sat	8.00E+01	sat	8.00E+01	sat	X	8.13E+00	1.63E+02
o-Xylene	9.86E+01	sat	9.86E+01	sat	9.86E+01	sat	X	7.37E+00	1.47E+02
p-Xylene	1.24E+02	sat	1.24E+02	sat	1.24E+02	sat	X	7.88E+00	1.58E+02
Xylenes	1.32E+02	sat	1.32E+02	sat	1.32E+02	sat	X	5.07E-01	1.01E+01
Zinc	2.35E+04	nc	1.00E+05	max	9.29E+04	nc		6.22E+02	1.24E+04

Notes: [a] - An oral absorption efficiency of 5% was assumed for the dermal route.
ca – carcinogenic effect basis
nc – noncarcinogenic effect basis
sat – soil saturation limit basis
max – low toxicity maximum, health based SSL exceeds 10^5 mg/kg
Compounds solid at ambient temperature will present a risk-based level over the soil saturation level (USEPA 2001a)

APPENDIX F

DRONE CRASH SITE
INITIAL SITE INVESTIGATION
SOIL BORING LOGS

HTW DRILLING LOG

HOLE NO. F4WSM7-DP01

1. COMPANY NAME: Bhate	2. DRILLING CONTRACTOR: Bhate
SHEET 1 OF 1 SHEETS	
3. PROJECT: 9030232 Drone Crash Site	4. LOCATION: WSNM
5. NAME OF DRILLER: S. Chesters	6. MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe
7. SIZES & TYPES OF DRILLING & SAMPLING EQUIPMENT: DPT; Core barrel 36"x ID 1.75; Removal Sampling Tubes	8. HOLE LOCATION: North East
	9. SURFACE ELEVATION (ft. NGVD)
	10. DATE STARTED: 1-20-2004
	11. DATE COMPLETED: 1-26-2004
12. OVERBURDEN THICKNESS	15. DEPTH GROUNDWATER ENCOUNTERED
13. DEPTH DRILLED INTO ROCK	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED
14. TOTAL DEPTH OF HOLE	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE REC %
	✓	✓	SVOCs	TPH		

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	Field Screening Results d	Geotech Sample or Core Box No. e	Analytical Sample No. f	Blow Counts g	REMARKS h
	0	0.0-0.5 NR					FID 2.43 PID 2.29 — 0'
		0.5-3.0, sand 4, silt 7, gypsum, very fine grained (vfg) quartz, 7.5YR 8/2, dry	DP01-3S 1235				FID 1.66 PID 0.41 — 3'
	3	3.0-6.0, SAB					FID PID — 0'
	6		DP01-6S 1248				FID: 1.46 PID: 0.71 — 3'
		6.0-9.0, 5YR 7/4, SAB					
	9		DP01-9-S 1255				FID: 1.56 PID: 0.79
		9.0-12.0, vfg quartz with gypsum & silt, 2.5YR 6/8 + 7.5YR 8/1					
	12		DP01-12-S 1310				FID: 2.07 PID: 2.44
		End of boring 1310					FID: 21640 PID: 8.58
	5						

PROJECT 9030232 Drone Crash Site

HOLE NO. ~~F4-AT~~ F4WSM-DP01

HTW DRILLING LOG

HOLE NO.	F4 WSM-DP02
1. COMPANY NAME	Bhate
2. DRILLING CONTRACTOR	Bhate
SHEET OF SHEETS	
3. PROJECT	9030232 Drone Crash Site
4. LOCATION	WSNM
5. NAME OF DRILLER	S. Chesters
6. MANUFACTURER'S DESIGNATION OF DRILL	Geoprobe
7. SIZES & TYPES OF DRILLING & SAMPLING EQUIPMENT	
8. HOLE LOCATION	North East
9. SURFACE ELEVATION (ft. NGVD)	
10. DATE STARTED	1-20-2004
11. DATE COMPLETED	
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE REC %
	✓	✓	SVOC	TPH		

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	Field Screening Results d	Geotech Sample or Core Box No. e	Analytical Sample No. f	Blow Counts g	REMARKS h	
	0	0.0-0.75 NR 0.75-3.0 SA DP04 & 01	DP02-3.5 1400				FID 201 PID 13.89 FID: 1.62 PID: 0.73	-0' -3'
3		3.0-6.0 SA DP04 & 01	DP02-6.5 1410				FID: 1.76 PID: 0.68	
6		6.0-9.0 SA DP04 & 01	DP02-9.5 1415				FID: 1.61 PID: 0.67	
9		9.0-12.0 SA DP04 & 01	DP02-12.5 1425				FID: 1.59 PID: 0.57	
12		no further borings MP					~~47~~ 103 PID: 185 ppm FID: 505	
	5							

PROJECT	HOLE NO.
9030232 Drone Crash Site	F4WSM-DP02

HTW DRILLING LOG

HOLE NO. F4WSM-DP03

PROJECT 9030232 Drone Crash Site

INSPECTOR

SHEET OF SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	Field Screening Results d	Geotech Sample or Core Box No. e	Analytical Sample No. f	Blow Counts g	REMARKS h
		0.0 - 0.25 NR 0.25 - 3.0 SA DP04,04&01	DP03-3-S 1440				FID: 1.94 PID: 0.60
3.0		3.0 - 6.0 SA DP04,02&01	DP03-6-S 1447				FID: 1.64 PID: 0.62
6.0		6.0 - 9.0 SA DP04,02&01	DP03-9-S 1458				FID: 1.61 PID: 0.79
9.0		9.0 - 12.0	DP03-12-S 1500				FID: 1.71 PID: 1.13
12.0							FID: 356 PID: 105

FID
PID

PROJECT 9030232 Drone Crash Site HOLE NO. F4WSM-DP03

HTW DRILLING LOG

HOLE NO. F4WSM-DP0~~2~~4

PROJECT 9030232 Drone Crash Site

INSPECTOR J. Pettrey

SHEET OF SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	Field Screening Results d	Geotech Sample or Core Box No. e	Analytical Sample No. f	Blow Counts g	REMARKS h
0.0		0.0-0.5 NR, Same as DP01					FID 55.82 PID 36.13
		0.5-3.0	DP0~~2~~4-3.5 1310				FID: 1.82 PID: 1.81
3.0		3.0-6.0 SAB as in DP01	DP0~~2~~4-6.5 1315				FID: 1.74 PID: 0.91
6.0		6.0-9.0	DP0~~2~~4-9.5 1320				FID: 2.06 PID: 1.58
9.0		9.0-12.0	DP04-12.5 1345				FID: 2.31 PID: 0.71
						1st	Reading 63.58 FID 19.82 PID DP04 Boring
						2nd	Reading FID: 89.59 PID: 31.29

no further boring

PROJECT 9030232

HOLE NO. F4WSM-DP0~~2~~4

HTW DRILLING LOG

1. COMPANY NAME: Bhate	2. DRILLING CONTRACTOR: Bhate	HOLE NO.: F4WSM-DP06
		SHEET OF SHEETS
3. PROJECT: 9030232 Drone Crash Site	4. LOCATION: WSNM	
5. NAME OF DRILLER: S. Charter	6. MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe	
7. SIZES & TYPES OF DRILLING & SAMPLING EQUIPMENT	8. HOLE LOCATION: North East	
	9. SURFACE ELEVATION (ft. NGVD)	
	10. DATE STARTED: 1-20-2004	11. DATE COMPLETED
12. OVERBURDEN THICKNESS	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE REC %
	✓	✓	SVOCs	TPH		

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	Field Screening Results d	Geotech Sample or Core Box No. e	Analytical Sample No. f	Blow Counts g	REMARKS h
	0	0.0-0.25 NR 0.25-3.0	DP06 3-5 1515				FID 22.40 PID 7.31 FID: 1.72 PID: 0.80
	3.0'	3.0-6.0 SA DP04,03,02 & 01	DP06-6-5 1520				FID: 1.68 PID: 0.77
	6.0'	6.0-9.0 SA DP04,03,02 01	DP06-9-5 1525				FID: 1.74 PID: 1.10
	9.0'	9.0-12.0 SA DP04,03,02 01.	DP06-12-5 1535				FID: 1.88 PID: 0.29
	12.0'						PID: 14.68 FID: 49.34 ppm
	5						

PROJECT: 9030232 Drone Crash Site

HOLE NO.: F4WSM-DP06

APPENDIX G1

INITIAL SITE INVESTIGATION LABORATORY FORM I DATA

ANALYTICAL REPORT

MAIN DATA PACKAGE - ORGANIC

BHATE

WO #0401136

Marcia K. McGinnity
Senior Project Manager
ELAB of Tennessee, LLC.

February 17, 2004

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WO #0401136

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ORGANIC CASE NARRATIVE
Bhate – Holloman AFB
Work Orders: 0401136

Volatiles

Method: The samples were analyzed by USEPA SW-846 Methods 5035/8260B (25 gram EnCore field sampling followed by laboratory preservation of a sub-sample then purge and trap followed by capillary column GC/MS) for soils upon receipt to the laboratory in satisfactory condition.
Comments: The volatile analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following exceptions:

- Based on screening information from the methanol extract, the low concentration vials were not analyzed for samples F4WSM-DP03-0-3, F4WSM-DP03-3-6 and F4WSM-DP04-0-3.
- The method blanks associated with these samples had reported concentrations of 2-butanone, hexane, methylene chloride and/or toluene. Reported concentrations in the associated samples were flagged with a 'B'.
- Out of 98 recoveries for the spike analytes in spike samples F4WSM-DP04-0-3MS/MSD, 12 were below the limits. See the form 3 for details. All laboratory control sample recoveries were within limits with the exception of methyl acetate in spike sample V5BLK0123LCS which exceeded the limit of 130% at 135%.

Semi-Volatiles

Method: The samples were extracted/analyzed by USEPA SW-846 Methods 3541/8270C (soxtherm extraction followed by capillary column GC/MS) for soils upon receipt to the laboratory in satisfactory condition.
Comments: The semi-volatile analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following exception:

- The continuing calibration compound di-n-octylphthalate in the continuing calibration verification (CCV) analyzed on BNA1 1/22/04 exceeded 20% D at +20.7%. Applying the 20%D limit to all other analytes, benzaldehyde exceeded 20% D at –56.9%. Results for benzaldehyde are flagged with a "Z" on the summary report in associated samples.
- Area counts for the internal standard naphthalene-d8 were 22% of the area counts in the associated continuing calibration verification for the undiluted analysis of sample F4WSM-DP03-0-3. Results for analytes associated with this internal standard are flagged with an "*" on the summary report. Analysis at a 5x dilution was performed without difficulties.

GRO

Method: The samples were analyzed by USEPA SW-846 Methods 5030B/8015B for Gasoline Range Organics (methanol extraction followed by purge and trap then capillary column GC/FID) for soils upon receipt to the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following exceptions:

- Due to sample matrix, recovery of the surrogate bromofluorobenzene exceeded the limit of 150% in the undiluted analysis of sample F4WSM-DP03-0-3 at 185%.

DRO/ORO

Method: The samples were extracted/analyzed by USEPA SW-846 Methods 3550C/8015B for Diesel Range Organics (sonication extraction followed by capillary column GC/FID, extended to include oil range organics) for soils upon receipt to the laboratory in satisfactory condition.
Comments: The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exception:

- In order to achieve calibration for the requested DRO (C10-C22) and ORO (>C22-C36) ranges, a normal alkane standard was used for instrument calibration rather than the diesel fuel standard indicated in the method.
- The ORO in the continuing calibration verification standard (CCV) analyzed at the end of the sequence exceeded the limit of 15% difference on the low side at –19.5%. Results for the associated samples are flagged as estimated with an "*" for the ORO range.

I certify that, to the best of my knowledge and based upon my inquiry of those individuals immediately responsible for obtaining the information, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in the case narrative, as verified by the following signature.

Marcia K. McGinnity
Senior Project Manage

Bhate

Parameters Requested

Laboratory Sample ID	Client Field ID	Matrix	Date and Time Sampled	Parameters Requested
0401136-01	F4WSM-DP03-0-	Water	1/21/04 2:40:00 PM	TPH-GRO (Soil)
		Water	1/21/04 2:40:00 PM	Semivolatiles, 8270 (Soil) Low Level, Sonication
		Water	1/21/04 2:40:00 PM	VOA 8260A TCL (Soil-Low)
		Water	1/21/04 2:40:00 PM	EPH, Solids
0401136-02	F4WSM-DP03-3-	Water	1/21/04 2:47:00 PM	EPH, Solids
		Water	1/21/04 2:47:00 PM	TPH-GRO (Soil)
		Water	1/21/04 2:47:00 PM	Semivolatiles, 8270 (Soil) Low Level, Sonication
		Water	1/21/04 2:47:00 PM	VOA 8260A TCL (Soil-Low)
0401136-03	F4WSM-DP04-0-	Water	1/21/04 1:10:00 PM	VOA 8260A TCL (Soil-Low)
		Water	1/21/04 1:10:00 PM	EPH, Solids
		Water	1/21/04 1:10:00 PM	TPH-GRO (Soil)
		Water	1/21/04 1:10:00 PM	Semivolatiles, 8270 (Soil) Low Level, Sonication
0401136-04	F4WSM-DP04-3-	Water	1/21/04 1:15:00 PM	TPH-GRO (Soil)
		Water	1/21/04 1:15:00 PM	Semivolatiles, 8270 (Soil) Low Level, Sonication
		Water	1/21/04 1:15:00 PM	VOA 8260A TCL (Soil-Low)
		Water	1/21/04 1:15:00 PM	EPH, Solids
0401136-05	F4WSM-DP06-0-	Water	1/21/04 3:15:00 PM	EPH, Solids
		Water	1/21/04 3:15:00 PM	TPH-GRO (Soil)
		Water	1/21/04 3:15:00 PM	Semivolatiles, 8270 (Soil) Low Level, Sonication
		Water	1/21/04 3:15:00 PM	VOA 8260A TCL (Soil-Low)
0401136-06	F4WSM-DP06-3-	Water	1/21/04 3:20:00 PM	VOA 8260A TCL (Soil-Low)
		Water	1/21/04 3:20:00 PM	EPH, Solids
		Water	1/21/04 3:20:00 PM	TPH-GRO (Soil)
		Water	1/21/04 3:20:00 PM	Semivolatiles, 8270 (Soil) Low Level, Sonication

EHATE
Environmental Associates, Inc.
1608 13th Avenue South, Suite 300
Birmingham, Alabama 35205
Tel: 205-918-4000
Fax: 205-918-4050

Chain of Custody and Analytical Request

Page 1 of 1

Project Number: 60300232 03 01

Chain of Custody Number [1]: 21-01-2004-01

LIMS Number:

Facility/Base I.D.: Holloman

Project Name / Site Name: Drone Crash Site

Client Name: USACE

Collected by: S. Chesters

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code [2]	Sample Number [3]	Sample Matrix [4]	Number of containers	SEE Attachment								Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested [5]									Quality Assurance Samples [6]			
36-01	F4WSM-DP03-0-3	Drone Crash	21012004	1440	0 - 3	N	01	SO												210120041	1
02	F4WSM-DP03-3-6			1447	3 - 6																
03	F4WSM-DP04-0-3			1310	0 - 3																
04	F4WSM-DP04-3-6			1315	3 - 6																
RSC	~~F4WSM-DP04-03~~				-																
05	F4WSM-DP06-03			1515	0 - 3																
06	F4WSM-DP06-3-6			1520	3 - 6																
					-																
					-																
					-																
					-																

RUSH

COMMENTS: FAX Results to (505) 679-2148
Fed Ex # 8426 0329 5076

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. R. Sam Chest	21JAN04	1600	1.		
2.			2.	1-22-03	9:00
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: _____ Shipped No.: _____
Method of Shipment: _____ Airbill Number: _____
Analytical Lab: _____ Delivery Location: _____
Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)
2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc.), SQ = Soil Blanks
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control)

2-0°C

DISTRIBUTION: WHITE COPY - Project File YELLOW COPY - Lab Copy PINK COPY - Working File

Attachment to COC _____

Analyze per SW-846

Parameter	Method
TPH	(8015) Carbon Chain
VOC's	8260
SVOC's	8270

8 RCRA Metals

ELAB OF TN COOLER RECEIPT FORM

LIMS Number 0401136 COC ID(s): 21-01-2004-01

Client BHATE Project Holloman

Sample Custodian Anthony Russo Today's Date 1-22-04

Date/Time Samples Received 1/22/04 09:00
Airbill Number Federal Express
Cooler Opened: Date 1/22/04

Chain of custody seal intact?	Yes	No
Chain of custody provided?	Yes	No
Sample labels present?	Yes	No
Bottle labels correspond w/COC	Yes	No

Number of Custody Seals on Cooler(s): 2 Seal Date(s): 1/21/04

Type of coolant used ICE

Coolant condition : Melted _____ Partially melted/frozen ✓
Frozen _____

# of Coolers 1 Temp. of Coolers 2.0°C

Condition of Bottles in Shipment: Broken Leaking Intact Missing

If broken or leaking list sample ID#s and bottle types affected:

Comments:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP03-0-3

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-01

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 0113601M

Level: (low/med) MED Date Sampled: 01/21/04

% Moisture: not dec. 21 Date Analyzed: 01/23/04

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	3100	U
71-43-2	Benzene	310	U
75-27-4	Bromodichloromethane	310	U
75-25-2	Bromoform	310	U
74-83-9	Bromomethane	620	U
78-93-3	2-Butanone	630	JB
75-15-0	Carbon disulfide	310	U
56-23-5	Carbon tetrachloride	310	U
108-90-7	Chlorobenzene	310	U
75-00-3	Chloroethane	620	U
67-66-3	Chloroform	310	U
74-87-3	Chloromethane	620	U
110-82-7	Cyclohexane	620	U
124-48-1	Dibromochloromethane	310	U
96-12-8	1,2-Dibromo-3-chloropropane	620	U
106-93-4	1,2-Dibromoethane	310	U
95-50-1	1,2-Dichlorobenzene	310	U
541-73-1	1,3-Dichlorobenzene	310	U
106-46-7	1,4-Dichlorobenzene	310	U
75-71-8	Dichlorodifluoromethane	620	U
75-34-3	1,1-Dichloroethane	310	U
107-06-2	1,2-Dichloroethane	310	U
75-35-4	1,1-Dichloroethene	310	U
156-59-2	cis-1,2-Dichloroethene	310	U
156-60-5	trans-1,2-Dichloroethene	310	U
78-87-5	1,2-Dichloropropane	310	U
10061-01-5	cis-1,3-Dichloropropene	310	U
10061-02-6	trans-1,3-Dichloropropene	310	U
100-41-4	Ethylbenzene	660	
110-54-3	Hexane	44	JB
591-78-6	2-Hexanone	1500	U
98-82-8	Isopropylbenzene	1000	
79-20-9	Methyl acetate	310	U
75-09-2	Methylene chloride	620	U
108-87-2	Methyl cyclohexane	13	J
1634-04-4	MTBE	310	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP03-0-3

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-01

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 0113601M

Level: (low/med) MED Date Sampled: 01/21/04

% Moisture: not dec. 21 Date Analyzed: 01/23/04

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-10-1	4-Methyl-2-pentanone	1500	U
100-42-5	Styrene	310	U
79-34-5	1,1,2,2-Tetrachloroethane	310	U
127-18-4	Tetrachloroethene	310	U
108-88-3	Toluene	30	JB
120-82-1	1,2,4-Trichlorobenzene	310	U
71-55-6	1,1,1-Trichloroethane	310	U
79-00-5	1,1,2-Trichloroethane	310	U
79-01-6	Trichloroethene	310	U
76-13-1	Trichlorotrifluoroethane	310	U
75-69-4	Trichlorofluoromethane	620	U
95-63-6	1,2,4-Trimethylbenzene	25000	E
108-67-8	1,3,5-Trimethylbenzene	6000	
75-01-4	Vinyl chloride	620	U
1330-20-7	Xylene(total)	2300	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP03-0-3

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-01

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 113601M2

Level: (low/med) MED Date Sampled: 01/21/04

% Moisture: not dec. 21 Date Analyzed: 01/26/04

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 4.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	12000	UD
71-43-2	Benzene	1200	UD
75-27-4	Bromodichloromethane	1200	UD
75-25-2	Bromoform	1200	UD
74-83-9	Bromomethane	2500	UD
78-93-3	2-Butanone	12000	UD
75-15-0	Carbon disulfide	1200	UD
56-23-5	Carbon tetrachloride	1200	UD
108-90-7	Chlorobenzene	1200	UD
75-00-3	Chloroethane	2500	UD
67-66-3	Chloroform	1200	UD
74-87-3	Chloromethane	2500	UD
110-82-7	Cyclohexane	2500	UD
124-48-1	Dibromochloromethane	1200	UD
96-12-8	1,2-Dibromo-3-chloropropane	2500	UD
106-93-4	1,2-Dibromoethane	1200	UD
95-50-1	1,2-Dichlorobenzene	1200	UD
541-73-1	1,3-Dichlorobenzene	1200	UD
106-46-7	1,4-Dichlorobenzene	1200	UD
75-71-8	Dichlorodifluoromethane	2500	UD
75-34-3	1,1-Dichloroethane	1200	UD
107-06-2	1,2-Dichloroethane	1200	UD
75-35-4	1,1-Dichloroethene	1200	UD
156-59-2	cis-1,2-Dichloroethene	1200	UD
156-60-5	trans-1,2-Dichloroethene	1200	UD
78-87-5	1,2-Dichloropropane	1200	UD
10061-01-5	cis-1,3-Dichloropropene	1200	UD
10061-02-6	trans-1,3-Dichloropropene	1200	UD
100-41-4	Ethylbenzene	930	JD
110-54-3	Hexane	1200	UD
591-78-6	2-Hexanone	6200	UD
98-82-8	Isopropylbenzene	1400	D
79-20-9	Methyl acetate	1200	UD
75-09-2	Methylene chloride	2500	UD
108-87-2	Methyl cyclohexane	1200	UD
1634-04-4	MTBE	1200	UD

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP03-0-3

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-01

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 113601M2

Level: (low/med) MED Date Sampled: 01/21/04

% Moisture: not dec. 21 Date Analyzed: 01/26/04

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 4.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-10-1	4-Methyl-2-pentanone	6200	UD
100-42-5	Styrene	1200	UD
79-34-5	1,1,2,2-Tetrachloroethane	1200	UD
127-18-4	Tetrachloroethene	1200	UD
108-88-3	Toluene	1200	UD
120-82-1	1,2,4-Trichlorobenzene	1200	UD
71-55-6	1,1,1-Trichloroethane	1200	UD
79-00-5	1,1,2-Trichloroethane	1200	UD
79-01-6	Trichloroethene	1200	UD
76-13-1	Trichlorotrifluoroethane	1200	UD
75-69-4	Trichlorofluoromethane	2500	UD
95-63-6	1,2,4-Trimethylbenzene	36000	D
108-67-8	1,3,5-Trimethylbenzene	8100	D
75-01-4	Vinyl chloride	2500	UD
1330-20-7	Xylene(total)	3200	D

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP03-3-6

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-02

Sample wt/vol: 5.5 (g/mL) G Lab File ID: 0113602M

Level: (low/med) MED Date Sampled: 01/21/04

% Moisture: not dec. 24 Date Analyzed: 01/23/04

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	3000	U
71-43-2	Benzene	300	U
75-27-4	Bromodichloromethane	300	U
75-25-2	Bromoform	300	U
74-83-9	Bromomethane	590	U
78-93-3	2-Butanone	470	JB
75-15-0	Carbon disulfide	300	U
56-23-5	Carbon tetrachloride	300	U
108-90-7	Chlorobenzene	300	U
75-00-3	Chloroethane	590	U
67-66-3	Chloroform	300	U
74-87-3	Chloromethane	590	U
110-82-7	Cyclohexane	590	U
124-48-1	Dibromochloromethane	300	U
96-12-8	1,2-Dibromo-3-chloropropane	590	U
106-93-4	1,2-Dibromoethane	300	U
95-50-1	1,2-Dichlorobenzene	300	U
541-73-1	1,3-Dichlorobenzene	300	U
106-46-7	1,4-Dichlorobenzene	300	U
75-71-8	Dichlorodifluoromethane	590	U
75-34-3	1,1-Dichloroethane	300	U
107-06-2	1,2-Dichloroethane	300	U
75-35-4	1,1-Dichloroethene	300	U
156-59-2	cis-1,2-Dichloroethene	300	U
156-60-5	trans-1,2-Dichloroethene	300	U
78-87-5	1,2-Dichloropropane	300	U
10061-01-5	cis-1,3-Dichloropropene	300	U
10061-02-6	trans-1,3-Dichloropropene	300	U
100-41-4	Ethylbenzene	300	U
110-54-3	Hexane	34	JB
591-78-6	2-Hexanone	1500	U
98-82-8	Isopropylbenzene	300	U
79-20-9	Methyl acetate	300	U
75-09-2	Methylene chloride	590	U
108-87-2	Methyl cyclohexane	300	U
1634-04-4	MTBE	300	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP03-3-6

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-02

Sample wt/vol: 5.5 (g/mL) G Lab File ID: 0113602M

Level: (low/med) MED Date Sampled: 01/21/04

% Moisture: not dec. 24 Date Analyzed: 01/23/04

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-10-1	4-Methyl-2-pentanone	1500	U
100-42-5	Styrene	300	U
79-34-5	1,1,2,2-Tetrachloroethane	300	U
127-18-4	Tetrachloroethene	300	U
108-88-3	Toluene	300	U
120-82-1	1,2,4-Trichlorobenzene	300	U
71-55-6	1,1,1-Trichloroethane	300	U
79-00-5	1,1,2-Trichloroethane	300	U
79-01-6	Trichloroethene	300	U
76-13-1	Trichlorotrifluoroethane	300	U
75-69-4	Trichlorofluoromethane	590	U
95-63-6	1,2,4-Trimethylbenzene	360	
108-67-8	1,3,5-Trimethylbenzene	87	J
75-01-4	Vinyl chloride	590	U
1330-20-7	Xylene(total)	300	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP04-0-3

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-03

Sample wt/vol: 4.9 (g/mL) G Lab File ID: 0113603M

Level: (low/med) MED Date Sampled: 01/21/04

% Moisture: not dec. 22 Date Analyzed: 01/23/04

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	3300	U
71-43-2	Benzene	330	U
75-27-4	Bromodichloromethane	330	U
75-25-2	Bromoform	330	U
74-83-9	Bromomethane	650	U
78-93-3	2-Butanone	400	JB
75-15-0	Carbon disulfide	330	U
56-23-5	Carbon tetrachloride	330	U
108-90-7	Chlorobenzene	330	U
75-00-3	Chloroethane	650	U
67-66-3	Chloroform	330	U
74-87-3	Chloromethane	650	U
110-82-7	Cyclohexane	650	U
124-48-1	Dibromochloromethane	330	U
96-12-8	1,2-Dibromo-3-chloropropane	650	U
106-93-4	1,2-Dibromoethane	330	U
95-50-1	1,2-Dichlorobenzene	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
75-71-8	Dichlorodifluoromethane	650	U
75-34-3	1,1-Dichloroethane	330	U
107-06-2	1,2-Dichloroethane	330	U
75-35-4	1,1-Dichloroethene	330	U
156-59-2	cis-1,2-Dichloroethene	330	U
156-60-5	trans-1,2-Dichloroethene	330	U
78-87-5	1,2-Dichloropropane	330	U
10061-01-5	cis-1,3-Dichloropropene	330	U
10061-02-6	trans-1,3-Dichloropropene	330	U
100-41-4	Ethylbenzene	110	J
110-54-3	Hexane	38	JB
591-78-6	2-Hexanone	1600	U
98-82-8	Isopropylbenzene	16	J
79-20-9	Methyl acetate	330	U
75-09-2	Methylene chloride	650	U
108-87-2	Methyl cyclohexane	330	U
1634-04-4	MTBE	330	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP04-0-3

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-03

Sample wt/vol: 4.9 (g/mL) G Lab File ID: 0113603M

Level: (low/med) MED Date Sampled: 01/21/04

% Moisture: not dec. 22 Date Analyzed: 01/23/04

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-10-1	4-Methyl-2-pentanone	1100	J
100-42-5	Styrene	330	U
79-34-5	1,1,2,2-Tetrachloroethane	330	U
127-18-4	Tetrachloroethene	330	U
108-88-3	Toluene	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
71-55-6	1,1,1-Trichloroethane	330	U
79-00-5	1,1,2-Trichloroethane	330	U
79-01-6	Trichloroethene	330	U
76-13-1	Trichlorotrifluoroethane	330	U
75-69-4	Trichlorofluoromethane	650	U
95-63-6	1,2,4-Trimethylbenzene	53	J
108-67-8	1,3,5-Trimethylbenzene	42	J
75-01-4	Vinyl chloride	650	U
1330-20-7	Xylene(total)	2100	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP04-3-6

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-04

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 0113604A

Level: (low/med) LOW Date Sampled: 01/21/04

% Moisture: not dec. 23 Date Analyzed: 01/23/04

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	19	J
71-43-2	Benzene	6.3	U
75-27-4	Bromodichloromethane	6.3	U
75-25-2	Bromoform	6.3	U
74-83-9	Bromomethane	13	U
78-93-3	2-Butanone	63	U
75-15-0	Carbon disulfide	6.3	U
56-23-5	Carbon tetrachloride	6.3	U
108-90-7	Chlorobenzene	6.3	U
75-00-3	Chloroethane	13	U
67-66-3	Chloroform	6.3	U
74-87-3	Chloromethane	13	U
110-82-7	Cyclohexane	13	U
124-48-1	Dibromochloromethane	6.3	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
106-93-4	1,2-Dibromoethane	6.3	U
95-50-1	1,2-Dichlorobenzene	6.3	U
541-73-1	1,3-Dichlorobenzene	6.3	U
106-46-7	1,4-Dichlorobenzene	6.3	U
75-71-8	Dichlorodifluoromethane	13	U
75-34-3	1,1-Dichloroethane	6.3	U
107-06-2	1,2-Dichloroethane	6.3	U
75-35-4	1,1-Dichloroethene	6.3	U
156-59-2	cis-1,2-Dichloroethene	6.3	U
156-60-5	trans-1,2-Dichloroethene	6.3	U
78-87-5	1,2-Dichloropropane	6.3	U
10061-01-5	cis-1,3-Dichloropropene	6.3	U
10061-02-6	trans-1,3-Dichloropropene	6.3	U
100-41-4	Ethylbenzene	6.3	U
110-54-3	Hexane	4.8	JB
591-78-6	2-Hexanone	32	U
98-82-8	Isopropylbenzene	6.3	U
79-20-9	Methyl acetate	6.3	U
75-09-2	Methylene chloride	8.9	JB
108-87-2	Methyl cyclohexane	6.3	U
1634-04-4	MTBE	6.3	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP04-3-6

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-04

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 0113604A

Level: (low/med) LOW Date Sampled: 01/21/04

% Moisture: not dec. 23 Date Analyzed: 01/23/04

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-10-1	4-Methyl-2-pentanone	32	U
100-42-5	Styrene	6.3	U
79-34-5	1,1,2,2-Tetrachloroethane	6.3	U
127-18-4	Tetrachloroethene	6.3	U
108-88-3	Toluene	6.3	U
120-82-1	1,2,4-Trichlorobenzene	6.3	U
71-55-6	1,1,1-Trichloroethane	6.3	U
79-00-5	1,1,2-Trichloroethane	6.3	U
79-01-6	Trichloroethene	6.3	U
76-13-1	Trichlorotrifluoroethane	6.3	U
75-69-4	Trichlorofluoromethane	13	U
95-63-6	1,2,4-Trimethylbenzene	6.3	U
108-67-8	1,3,5-Trimethylbenzene	6.3	U
75-01-4	Vinyl chloride	13	U
1330-20-7	Xylene(total)	6.3	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP06-0-3

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-05

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0113605A

Level: (low/med) LOW Date Sampled: 01/21/04

% Moisture: not dec. 24 Date Analyzed: 01/23/04

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	22	J
71-43-2	Benzene	6.5	U
75-27-4	Bromodichloromethane	6.5	U
75-25-2	Bromoform	6.5	U
74-83-9	Bromomethane	13	U
78-93-3	2-Butanone	65	U
75-15-0	Carbon disulfide	6.5	U
56-23-5	Carbon tetrachloride	6.5	U
108-90-7	Chlorobenzene	6.5	U
75-00-3	Chloroethane	13	U
67-66-3	Chloroform	6.5	U
74-87-3	Chloromethane	13	U
110-82-7	Cyclohexane	13	U
124-48-1	Dibromochloromethane	6.5	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
106-93-4	1,2-Dibromoethane	6.5	U
95-50-1	1,2-Dichlorobenzene	6.5	U
541-73-1	1,3-Dichlorobenzene	6.5	U
106-46-7	1,4-Dichlorobenzene	6.5	U
75-71-8	Dichlorodifluoromethane	13	U
75-34-3	1,1-Dichloroethane	6.5	U
107-06-2	1,2-Dichloroethane	6.5	U
75-35-4	1,1-Dichloroethene	6.5	U
156-59-2	cis-1,2-Dichloroethene	6.5	U
156-60-5	trans-1,2-Dichloroethene	6.5	U
78-87-5	1,2-Dichloropropane	6.5	U
10061-01-5	cis-1,3-Dichloropropene	6.5	U
10061-02-6	trans-1,3-Dichloropropene	6.5	U
100-41-4	Ethylbenzene	6.5	U
110-54-3	Hexane	4.5	JB
591-78-6	2-Hexanone	33	U
98-82-8	Isopropylbenzene	6.5	U
79-20-9	Methyl acetate	6.5	U
75-09-2	Methylene chloride	9.4	JB
108-87-2	Methyl cyclohexane	6.5	U
1634-04-4	MTBE	6.5	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP06-0-3

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-05

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0113605A

Level: (low/med) LOW Date Sampled: 01/21/04

% Moisture: not dec. 24 Date Analyzed: 01/23/04

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-10-1	4-Methyl-2-pentanone	33	U
100-42-5	Styrene	6.5	U
79-34-5	1,1,2,2-Tetrachloroethane	6.5	U
127-18-4	Tetrachloroethene	6.5	U
108-88-3	Toluene	6.5	U
120-82-1	1,2,4-Trichlorobenzene	6.5	U
71-55-6	1,1,1-Trichloroethane	6.5	U
79-00-5	1,1,2-Trichloroethane	6.5	U
79-01-6	Trichloroethene	6.5	U
76-13-1	Trichlorotrifluoroethane	6.5	U
75-69-4	Trichlorofluoromethane	13	U
95-63-6	1,2,4-Trimethylbenzene	6.5	U
108-67-8	1,3,5-Trimethylbenzene	6.5	U
75-01-4	Vinyl chloride	13	U
1330-20-7	Xylene(total)	6.5	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP06-3-6

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-06

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 0113606A

Level: (low/med) LOW Date Sampled: 01/21/04

% Moisture: not dec. 23 Date Analyzed: 01/23/04

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	15	J
71-43-2	Benzene	6.4	U
75-27-4	Bromodichloromethane	6.4	U
75-25-2	Bromoform	6.4	U
74-83-9	Bromomethane	13	U
78-93-3	2-Butanone	64	U
75-15-0	Carbon disulfide	6.4	U
56-23-5	Carbon tetrachloride	6.4	U
108-90-7	Chlorobenzene	6.4	U
75-00-3	Chloroethane	13	U
67-66-3	Chloroform	6.4	U
74-87-3	Chloromethane	13	U
110-82-7	Cyclohexane	13	U
124-48-1	Dibromochloromethane	6.4	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
106-93-4	1,2-Dibromoethane	6.4	U
95-50-1	1,2-Dichlorobenzene	6.4	U
541-73-1	1,3-Dichlorobenzene	6.4	U
106-46-7	1,4-Dichlorobenzene	6.4	U
75-71-8	Dichlorodifluoromethane	13	U
75-34-3	1,1-Dichloroethane	6.4	U
107-06-2	1,2-Dichloroethane	6.4	U
75-35-4	1,1-Dichloroethene	6.4	U
156-59-2	cis-1,2-Dichloroethene	6.4	U
156-60-5	trans-1,2-Dichloroethene	6.4	U
78-87-5	1,2-Dichloropropane	6.4	U
10061-01-5	cis-1,3-Dichloropropene	6.4	U
10061-02-6	trans-1,3-Dichloropropene	6.4	U
100-41-4	Ethylbenzene	6.4	U
110-54-3	Hexane	3.4	JB
591-78-6	2-Hexanone	32	U
98-82-8	Isopropylbenzene	6.4	U
79-20-9	Methyl acetate	6.4	U
75-09-2	Methylene chloride	8.6	JB
108-87-2	Methyl cyclohexane	6.4	U
1634-04-4	MTBE	6.4	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP06-3-6

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-06

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 0113606A

Level: (low/med) LOW Date Sampled: 01/21/04

% Moisture: not dec. 23 Date Analyzed: 01/23/04

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-10-1	4-Methyl-2-pentanone	32	U
100-42-5	Styrene	6.4	U
79-34-5	1,1,2,2-Tetrachloroethane	6.4	U
127-18-4	Tetrachloroethene	6.4	U
108-88-3	Toluene	6.4	U
120-82-1	1,2,4-Trichlorobenzene	6.4	U
71-55-6	1,1,1-Trichloroethane	6.4	U
79-00-5	1,1,2-Trichloroethane	6.4	U
79-01-6	Trichloroethene	6.4	U
76-13-1	Trichlorotrifluoroethane	6.4	U
75-69-4	Trichlorofluoromethane	13	U
95-63-6	1,2,4-Trimethylbenzene	6.4	U
108-67-8	1,3,5-Trimethylbenzene	6.4	U
75-01-4	Vinyl chloride	13	U
1330-20-7	Xylene(total)	6.4	U

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Level:(low/med) LOW

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	V5BLK0123LCS	101	103	97	100	0
02	V5BLK0123	109	118	104	104	0
03	PLSBLK1136	105	106	105	102	0
04	F4WSM-DP04-3	111	110	105	103	0
05	F4WSM-DP06-0	108	108	106	100	0
06	F4WSM-DP06-3	110	108	105	100	0
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27						
28						
29						
30						

		ELAB QC LIMITS	SPIKE CONC (ug/Kg)
SMC1 (DFM)	= Dibromofluoromethane	(65-142)	50
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(72-141)	50
SMC3 (TOL)	= Toluene-d8	(78-120)	50
SMC4 (BFB)	= Bromofluorobenzene	(78-127)	50

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Level:(low/med) MED

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	PMSBLK1136	99	96	104	99	0
02	F4WSM-DP03-0	99	98	102	108	0
03	F4WSM-DP03-3	86	90	100	101	0
04	F4WSM-DP04-0	87	89	102	100	0
05	F4WSM-DP04-0	86	88	95	94	0
06	F4WSM-DP04-0	87	92	96	96	0
07	V5BLK0126LCS	96	100	101	97	0
08	V5BLK0126	102	110	100	101	0
09	F4WSM-DP03-0	86	88	102	100	0
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30						

		ELAB QC LIMITS	SPIKE CONC (ug/Kg)
SMC1 (DFM)	= Dibromofluoromethane	(65-142)	2500
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(72-141)	2500
SMC3 (TOL)	= Toluene-d8	(78-120)	2500
SMC4 (BFB)	= Bromofluorobenzene	(78-127)	2500

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 3
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix Spike - Client Sample No.: F4WSM-DP04-0-3 Lab Sample ID: 0401136-03

Level:(low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Acetone	6541	0.0000	5376	82	50-150
Benzene	3270	0.0000	2976	91	71-123
Bromodichloromethane	3270	0.0000	3280	100	71-130
Bromoform	3270	0.0000	3081	94	62-141
Bromomethane	3270	0.0000	3091	94	57-153
2-Butanone	6541	396.5	5943	85	50-150
Carbon disulfide	6541	0.0000	5835	89	64-123
Carbon tetrachloride	3270	0.0000	3077	94	69-132
Chlorobenzene	3270	0.0000	3210	98	69-118
Chloroethane	3270	0.0000	2689	82	62-140
Chloroform	3270	0.0000	2664	81	75-132
Chloromethane	3270	0.0000	2807	86	56-144
Cyclohexane	3270	0.0000	2787	85	70-130
Dibromochloromethane	3270	0.0000	2900	89	61-147
1,2-Dibromo-3-chloropro	3270	0.0000	3023	92	70-128
1,2-Dibromoethane	3270	0.0000	2969	91	62-150
1,2-Dichlorobenzene	3270	0.0000	3344	102	75-132
1,3-Dichlorobenzene	3270	0.0000	3289	100	75-122
1,4-Dichlorobenzene	3270	0.0000	3359	103	74-126
Dichlorodifluoromethane	3270	0.0000	2599	79	43-134
1,1-Dichloroethane	3270	0.0000	2609	80	80-126
1,2-Dichloroethane	3270	0.0000	2541	78	75-121
1,1-Dichloroethene	3270	0.0000	2533	77	57-142
cis-1,2-Dichloroethene	3270	0.0000	2793	85	70-129
trans-1,2-Dichloroethen	3270	0.0000	2820	86	75-123
1,2-Dichloropropane	3270	0.0000	2915	89	72-124
cis-1,3-Dichloropropene	3270	0.0000	3170	97	72-132
trans-1,3-Dichloroprope	3270	0.0000	2595	79	69-131

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix Spike - Client Sample No.: F4WSM-DP04-0-3 Lab Sample ID: 0401136-03

Level:(low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Ethylbenzene	3270	109.0	3055	90	75-120
2-Hexanone	6541	0.0000	4802	73	55-144
Isopropylbenzene	3270	15.70	2910	88	76-126
Methyl acetate	3270	0.0000	3584	110	70-130
Methylene chloride	3270	0.0000	2694	82	66-131
Methyl cyclohexane	3270	0.0000	3155	96	70-130
MTBE	3270	0.0000	2766	84	58-146
4-Methyl-2-pentanone	6541	1119	5442	66	50-150
Styrene	3270	0.0000	3230	99	75-130
1,1,2,2-Tetrachloroetha	3270	0.0000	2752	84	68-144
Tetrachloroethene	3270	0.0000	3087	94	75-129
Toluene	3270	0.0000	2934	90	63-128
1,2,4-Trichlorobenzene	3270	0.0000	3247	99	69-139
1,1,1-Trichloroethane	3270	0.0000	2638	81	75-133
1,1,2-Trichloroethane	3270	0.0000	2923	89	71-129
Trichloroethene	3270	0.0000	3051	93	69-120
Trichlorotrifluoroethan	3270	0.0000	2884	88	50-145
Trichlorofluoromethane	3270	0.0000	2629	80	61-139
1,3,5-Trimethylbenzene	3270	42.20	3041	92	75-125
Vinyl chloride	3270	0.0000	797.7	24*	75-134
Xylene(total)	9812	2147	9218	72*	75-125

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

* Values outside of QC limits

COMMENTS:

FORM 3
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix Spike - Client Sample No.: F4WSM-DP04-0-3 Lab Sample ID: 0401136-03

Level:(low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	6541	5563	85	3	50	50-150
Benzene	3270	2627	80	12	50	71-123
Bromodichloromethane	3270	2924	89	11	50	71-130
Bromoform	3270	3021	92	2	50	62-141
Bromomethane	3270	2416	74	24	50	57-153
2-Butanone	6541	6391	92	7	50	50-150
Carbon disulfide	6541	4810	74	19	50	64-123
Carbon tetrachloride	3270	2546	78	19	50	69-132
Chlorobenzene	3270	2712	83	17	50	69-118
Chloroethane	3270	2331	71	14	50	62-140
Chloroform	3270	2316	71*	14	50	75-132
Chloromethane	3270	2825	86	1	50	56-144
Cyclohexane	3270	2308	70	19	50	70-130
Dibromochloromethane	3270	2728	83	6	50	61-147
1,2-Dibromo-3-chloropro	3270	2883	88	5	50	70-128
1,2-Dibromoethane	3270	2875	88	3	50	62-150
1,2-Dichlorobenzene	3270	2911	89	14	50	75-132
1,3-Dichlorobenzene	3270	2730	83	18	50	75-122
1,4-Dichlorobenzene	3270	2806	86	18	50	74-126
Dichlorodifluoromethane	3270	2240	68	15	50	43-134
1,1-Dichloroethane	3270	2220	68*	16	50	80-126
1,2-Dichloroethane	3270	2330	71*	9	50	75-121
1,1-Dichloroethene	3270	2101	64	19	50	57-142
cis-1,2-Dichloroethene	3270	2429	74	14	50	70-129
trans-1,2-Dichloroethen	3270	2367	72*	17	50	75-123
1,2-Dichloropropane	3270	2539	78	14	50	72-124
cis-1,3-Dichloropropene	3270	2851	87	10	50	72-132
trans-1,3-Dichloroprope	3270	2386	73	8	50	69-131

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix Spike - Client Sample No.: F4WSM-DP04-0-3 Lab Sample ID: 0401136-03

Level:(low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Ethylbenzene	3270	2524	74*	19	50	75-120
2-Hexanone	6541	5054	77	5	50	55-144
Isopropylbenzene	3270	2394	73*	19	50	76-126
Methyl acetate	3270	3910	120	9	50	70-130
Methylene chloride	3270	2423	74	10	50	66-131
Methyl cyclohexane	3270	2587	79	20	50	70-130
MTBE	3270	2630	80	5	50	58-146
4-Methyl-2-pentanone	6541	5673	70	4	50	50-150
Styrene	3270	2777	85	15	50	75-130
1,1,2,2-Tetrachloroetha	3270	2660	81	3	50	68-144
Tetrachloroethene	3270	2482	76	22	50	75-129
Toluene	3270	2442	75	18	50	63-128
1,2,4-Trichlorobenzene	3270	2750	84	16	50	69-139
1,1,1-Trichloroethane	3270	2170	66*	19	50	75-133
1,1,2-Trichloroethane	3270	2775	85	5	50	71-129
Trichloroethene	3270	2491	76	20	50	69-120
Trichlorotrifluoroethan	3270	2401	73	18	50	50-145
Trichlorofluoromethane	3270	2200	67	18	50	61-139
1,3,5-Trimethylbenzene	3270	2434	73*	22	50	75-125
Vinyl chloride	3270	699.2	21*	13	50	75-134
Xylene(total)	9812	7755	57*	17	50	75-125

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

* Values outside of QC limits

RPD: 0 out of 49 outside limits
Spike Recovery: 12 out of 98 outside limits

COMMENTS:

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix Spike - Client Sample No.: V5BLK0123 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Acetone	100.0	0.0000	111.1	111	50-150
Benzene	50.00	0.0000	50.17	100	71-123
Bromodichloromethane	50.00	0.0000	56.40	113	71-130
Bromoform	50.00	0.0000	53.08	106	62-141
Bromomethane	50.00	0.0000	61.89	124	57-153
2-Butanone	100.0	0.0000	115.2	115	50-150
Carbon disulfide	100.0	0.0000	106.7	107	64-123
Carbon tetrachloride	50.00	0.0000	51.91	104	69-132
Chlorobenzene	50.00	0.0000	51.81	104	69-118
Chloroethane	50.00	0.0000	55.30	111	62-140
Chloroform	50.00	0.0000	51.17	102	75-132
Chloromethane	50.00	0.0000	53.35	107	56-144
Cyclohexane	50.00	0.0000	53.70	107	70-130
Dibromochloromethane	50.00	0.0000	49.47	99	61-147
1,2-Dibromo-3-chloropro	50.00	0.0000	47.18	94	70-128
1,2-Dibromoethane	50.00	0.0000	50.21	100	62-150
1,2-Dichlorobenzene	50.00	0.0000	52.10	104	75-132
1,3-Dichlorobenzene	50.00	0.0000	51.12	102	75-122
1,4-Dichlorobenzene	50.00	0.0000	53.37	107	74-126
Dichlorodifluoromethane	50.00	0.0000	49.09	98	43-134
1,1-Dichloroethane	50.00	0.0000	49.31	99	80-126
1,2-Dichloroethane	50.00	0.0000	51.03	102	75-121
1,1-Dichloroethene	50.00	0.0000	45.20	90	57-142
cis-1,2-Dichloroethene	50.00	0.0000	50.13	100	70-129
trans-1,2-Dichloroethen	50.00	0.0000	50.57	101	75-123
1,2-Dichloropropane	50.00	0.0000	50.10	100	72-124
cis-1,3-Dichloropropene	50.00	0.0000	53.37	107	72-132
trans-1,3-Dichloroprope	50.00	0.0000	46.19	92	69-131

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix Spike - Client Sample No.: V5BLK0123 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Ethylbenzene	50.00	0.0000	51.43	103	75-120
2-Hexanone	100.0	0.0000	101.4	101	55-144
Isopropylbenzene	50.00	0.0000	49.47	99	76-126
Methyl acetate	50.00	0.0000	67.49	135*	70-130
Methylene chloride	50.00	0.0000	52.23	104	66-131
Methyl cyclohexane	50.00	0.0000	51.55	103	70-130
MTBE	50.00	0.0000	52.83	106	58-146
4-Methyl-2-pentanone	100.0	0.0000	101.4	101	50-150
Styrene	50.00	0.0000	52.38	105	75-130
1,1,2,2-Tetrachloroetha	50.00	0.0000	49.00	98	68-144
Tetrachloroethene	50.00	0.0000	50.94	102	75-129
Toluene	50.00	0.3208	48.77	97	63-128
1,2,4-Trichlorobenzene	50.00	0.0000	52.32	105	69-139
1,1,1-Trichloroethane	50.00	0.0000	51.13	102	75-133
1,1,2-Trichloroethane	50.00	0.0000	50.52	101	71-129
Trichloroethene	50.00	0.0000	49.68	99	69-120
Trichlorotrifluoroethan	50.00	0.0000	51.61	103	50-145
Trichlorofluoromethane	50.00	0.0000	51.03	102	61-139
1,3,5-Trimethylbenzene	50.00	0.0000	49.53	99	75-125
Vinyl chloride	50.00	0.0000	54.15	108	75-134
Xylene(total)	150.0	0.0000	156.3	104	75-125

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 1 out of 49 outside limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix Spike - Client Sample No.: V5BLK0126 Level:(low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Acetone	5000	0.0000	4277	86	50-150
Benzene	2500	0.0000	2471	99	71-123
Bromodichloromethane	2500	0.0000	2819	113	71-130
Bromoform	2500	0.0000	2720	109	62-141
Bromomethane	2500	0.0000	2707	108	57-153
2-Butanone	5000	0.0000	4763	95	50-150
Carbon disulfide	5000	0.0000	4944	99	64-123
Carbon tetrachloride	2500	0.0000	2580	103	69-132
Chlorobenzene	2500	0.0000	2625	105	69-118
Chloroethane	2500	0.0000	1933	77	62-140
Chloroform	2500	0.0000	2387	95	75-132
Chloromethane	2500	0.0000	2218	89	56-144
Cyclohexane	2500	0.0000	2403	96	70-130
Dibromochloromethane	2500	0.0000	2583	103	61-147
1,2-Dibromo-3-chloropro	2500	0.0000	2381	95	70-128
1,2-Dibromoethane	2500	0.0000	2562	102	62-150
1,2-Dichlorobenzene	2500	0.0000	2580	103	75-132
1,3-Dichlorobenzene	2500	0.0000	2530	101	75-122
1,4-Dichlorobenzene	2500	0.0000	2583	103	74-126
Dichlorodifluoromethane	2500	0.0000	2042	82	43-134
1,1-Dichloroethane	2500	0.0000	2248	90	80-126
1,2-Dichloroethane	2500	0.0000	2397	96	75-121
1,1-Dichloroethene	2500	0.0000	2099	84	57-142
cis-1,2-Dichloroethene	2500	0.0000	2381	95	70-129
trans-1,2-Dichloroethen	2500	0.0000	2349	94	75-123
1,2-Dichloropropane	2500	0.0000	2405	96	72-124
cis-1,3-Dichloropropene	2500	0.0000	2644	106	72-132
trans-1,3-Dichloroprope	2500	0.0000	2379	95	69-131

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix Spike - Client Sample No.: V5BLK0126 Level:(low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Ethylbenzene	2500	0.0000	2505	100	75-120
2-Hexanone	5000	0.0000	4691	94	55-144
Isopropylbenzene	2500	0.0000	2306	92	76-126
Methyl acetate	2500	0.0000	2964	118	70-130
Methylene chloride	2500	0.0000	2264	90	66-131
Methyl cyclohexane	2500	0.0000	2497	100	70-130
MTBE	2500	0.0000	2543	102	58-146
4-Methyl-2-pentanone	5000	0.0000	4702	94	50-150
Styrene	2500	0.0000	2463	98	75-130
1,1,2,2-Tetrachloroetha	2500	0.0000	2464	98	68-144
Tetrachloroethene	2500	0.0000	2637	105	75-129
Toluene	2500	15.70	2474	98	63-128
1,2,4-Trichlorobenzene	2500	0.0000	2564	102	69-139
1,1,1-Trichloroethane	2500	0.0000	2404	96	75-133
1,1,2-Trichloroethane	2500	0.0000	2573	103	71-129
Trichloroethene	2500	0.0000	2466	99	69-120
Trichlorotrifluoroethan	2500	0.0000	2421	97	50-145
Trichlorofluoromethane	2500	0.0000	2286	91	61-139
1,3,5-Trimethylbenzene	2500	0.0000	2365	95	75-125
Vinyl chloride	2500	0.0000	2356	94	75-134
Xylene(total)	7500	0.0000	7161	95	75-125

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 49 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PLSBLK1136

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Lab File ID: PBLK0122 Lab Sample ID: PLSBLK1136

Date Analyzed: 01/23/04 Time Analyzed: 1426

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: VOA5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	F4WSM-DP04-3	0401136-04	0113604A	1532
02	F4WSM-DP06-0	0401136-05	0113605A	1606
03	F4WSM-DP06-3	0401136-06	0113606A	1639
04				
05				
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COMMENTS:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PLSBLK1136

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix: (soil/water) SOIL Lab Sample ID: PLSBLK1136

Sample wt/vol: 5.0 (g/mL) G Lab File ID: PBLK0122

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 01/23/04

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	50	U
71-43-2	Benzene	5.0	U
75-27-4	Bromodichloromethane	5.0	U
75-25-2	Bromoform	5.0	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	50	U
75-15-0	Carbon disulfide	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	10	U
110-82-7	Cyclohexane	10	U
124-48-1	Dibromochloromethane	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
106-93-4	1,2-Dibromoethane	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
75-71-8	Dichlorodifluoromethane	10	U
75-34-3	1,1-Dichloroethane	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
100-41-4	Ethylbenzene	5.0	U
110-54-3	Hexane	3.5	J
591-78-6	2-Hexanone	25	U
98-82-8	Isopropylbenzene	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	8.6	J
108-87-2	Methyl cyclohexane	5.0	U
1634-04-4	MTBE	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PLSBLK1136

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix: (soil/water) SOIL Lab Sample ID: PLSBLK1136

Sample wt/vol: 5.0 (g/mL) G Lab File ID: PBLK0122

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 01/23/04

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-10-1	4-Methyl-2-pentanone	25	U
100-42-5	Styrene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-88-3	Toluene	0.32	J
120-82-1	1,2,4-Trichlorobenzene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
76-13-1	Trichlorotrifluoroethane	5.0	U
75-69-4	Trichlorofluoromethane	10	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylene(total)	5.0	U

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PMSBLK1136

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Lab File ID: MBLK0122 Lab Sample ID: PMSBLK1136

Date Analyzed: 01/23/04 Time Analyzed: 1459

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: VOA5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	F4WSM-DP03-0	0401136-01	0113601M	1712
02	F4WSM-DP03-3	0401136-02	0113602M	1746
03	F4WSM-DP04-0	0401136-03	0113603M	1819
04				
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COMMENTS:

FORM IV VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PMSBLK1136

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix: (soil/water) SOIL Lab Sample ID: PMSBLK1136

Sample wt/vol: 5.0 (g/mL) G Lab File ID: MBLK0122

Level: (low/med) MED Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 01/23/04

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	2500	U
71-43-2	Benzene	250	U
75-27-4	Bromodichloromethane	250	U
75-25-2	Bromoform	250	U
74-83-9	Bromomethane	500	U
78-93-3	2-Butanone	460	J
75-15-0	Carbon disulfide	250	U
56-23-5	Carbon tetrachloride	250	U
108-90-7	Chlorobenzene	250	U
75-00-3	Chloroethane	500	U
67-66-3	Chloroform	250	U
74-87-3	Chloromethane	500	U
110-82-7	Cyclohexane	500	U
124-48-1	Dibromochloromethane	250	U
96-12-8	1,2-Dibromo-3-chloropropane	500	U
106-93-4	1,2-Dibromoethane	250	U
95-50-1	1,2-Dichlorobenzene	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
75-71-8	Dichlorodifluoromethane	500	U
75-34-3	1,1-Dichloroethane	250	U
107-06-2	1,2-Dichloroethane	250	U
75-35-4	1,1-Dichloroethene	250	U
156-59-2	cis-1,2-Dichloroethene	250	U
156-60-5	trans-1,2-Dichloroethene	250	U
78-87-5	1,2-Dichloropropane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
100-41-4	Ethylbenzene	250	U
110-54-3	Hexane	42	J
591-78-6	2-Hexanone	1200	U
98-82-8	Isopropylbenzene	250	U
79-20-9	Methyl acetate	250	U
75-09-2	Methylene chloride	500	U
108-87-2	Methyl cyclohexane	250	U
1634-04-4	MTBE	250	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PMSBLK1136

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix: (soil/water) SOIL Lab Sample ID: PMSBLK1136

Sample wt/vol: 5.0 (g/mL) G Lab File ID: MBLK0122

Level: (low/med) MED Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 01/23/04

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-10-1	4-Methyl-2-pentanone	1200	U
100-42-5	Styrene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
127-18-4	Tetrachloroethene	250	U
108-88-3	Toluene	11	J
120-82-1	1,2,4-Trichlorobenzene	250	U
71-55-6	1,1,1-Trichloroethane	250	U
79-00-5	1,1,2-Trichloroethane	250	U
79-01-6	Trichloroethene	250	U
76-13-1	Trichlorotrifluoroethane	250	U
75-69-4	Trichlorofluoromethane	500	U
95-63-6	1,2,4-Trimethylbenzene	250	U
108-67-8	1,3,5-Trimethylbenzene	250	U
75-01-4	Vinyl chloride	500	U
1330-20-7	Xylene(total)	250	U

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V5BLK0123

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Lab File ID: V5BLK01 Lab Sample ID: V5BLK0123

Date Analyzed: 01/23/04 Time Analyzed: 1352

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: VOA5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V5BLK0123LCS	V5BLK0123LCS	V5LCS01	1212
02	PLSBLK1136	PLSBLK1136	PBLK0122	1426
03	PMSBLK1136	PMSBLK1136	MBLK0122	1459
04	F4WSM-DP04-3	0401136-04	0113604A	1532
05	F4WSM-DP06-0	0401136-05	0113605A	1606
06	F4WSM-DP06-3	0401136-06	0113606A	1639
07	F4WSM-DP03-0	0401136-01	0113601M	1712
08	F4WSM-DP03-3	0401136-02	0113602M	1746
09	F4WSM-DP04-0	0401136-03	0113603M	1819
10	F4WSM-DP04-0	0401136-03	M113603M	1852
11	F4WSM-DP04-0	0401136-03	D113603M	1925
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COMMENTS:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V5BLK0123

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix: (soil/water) SOIL Lab Sample ID: V5BLK0123

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5BLK01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 01/23/04

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	50	U
71-43-2	Benzene	5.0	U
75-27-4	Bromodichloromethane	5.0	U
75-25-2	Bromoform	5.0	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	50	U
75-15-0	Carbon disulfide	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	10	U
110-82-7	Cyclohexane	10	U
124-48-1	Dibromochloromethane	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
106-93-4	1,2-Dibromoethane	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
75-71-8	Dichlorodifluoromethane	10	U
75-34-3	1,1-Dichloroethane	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
100-41-4	Ethylbenzene	5.0	U
110-54-3	Hexane	0.51	J
591-78-6	2-Hexanone	25	U
98-82-8	Isopropylbenzene	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	10	U
108-87-2	Methyl cyclohexane	5.0	U
1634-04-4	MTBE	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V5BLK0123

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix: (soil/water) SOIL Lab Sample ID: V5BLK0123

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5BLK01

Level: (low/med) LOW Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 01/23/04

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-10-1	4-Methyl-2-pentanone	25	U
100-42-5	Styrene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-88-3	Toluene	0.32	J
120-82-1	1,2,4-Trichlorobenzene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
76-13-1	Trichlorotrifluoroethane	5.0	U
75-69-4	Trichlorofluoromethane	10	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylene(total)	5.0	U

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V5BLK0126

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Lab File ID: V5BLK01 Lab Sample ID: V5BLK0126

Date Analyzed: 01/26/04 Time Analyzed: 1410

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: VOA5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V5BLK0126LCS	V5BLK0126LCS	V5LCS01	1230
02	F4WSM-DP03-0	0401136-01	113601M2	1625
03				
04				
05				
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COMMENTS:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V5BLK0126

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix: (soil/water) SOIL Lab Sample ID: V5BLK0126

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5BLK01

Level: (low/med) MED Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 01/26/04

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	2500	U
71-43-2	Benzene	250	U
75-27-4	Bromodichloromethane	250	U
75-25-2	Bromoform	250	U
74-83-9	Bromomethane	500	U
78-93-3	2-Butanone	2500	U
75-15-0	Carbon disulfide	250	U
56-23-5	Carbon tetrachloride	250	U
108-90-7	Chlorobenzene	250	U
75-00-3	Chloroethane	500	U
67-66-3	Chloroform	250	U
74-87-3	Chloromethane	500	U
110-82-7	Cyclohexane	500	U
124-48-1	Dibromochloromethane	250	U
96-12-8	1,2-Dibromo-3-chloropropane	500	U
106-93-4	1,2-Dibromoethane	250	U
95-50-1	1,2-Dichlorobenzene	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
75-71-8	Dichlorodifluoromethane	500	U
75-34-3	1,1-Dichloroethane	250	U
107-06-2	1,2-Dichloroethane	250	U
75-35-4	1,1-Dichloroethene	250	U
156-59-2	cis-1,2-Dichloroethene	250	U
156-60-5	trans-1,2-Dichloroethene	250	U
78-87-5	1,2-Dichloropropane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
100-41-4	Ethylbenzene	250	U
110-54-3	Hexane	250	U
591-78-6	2-Hexanone	1200	U
98-82-8	Isopropylbenzene	250	U
79-20-9	Methyl acetate	250	U
75-09-2	Methylene chloride	500	U
108-87-2	Methyl cyclohexane	250	U
1634-04-4	MTBE	250	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V5BLK0126

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.V01136

Matrix: (soil/water) SOIL Lab Sample ID: V5BLK0126

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5BLK01

Level: (low/med) MED Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 01/26/04

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000(uL) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-10-1	4-Methyl-2-pentanone	1200	U
100-42-5	Styrene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
127-18-4	Tetrachloroethene	250	U
108-88-3	Toluene	16	J
120-82-1	1,2,4-Trichlorobenzene	250	U
71-55-6	1,1,1-Trichloroethane	250	U
79-00-5	1,1,2-Trichloroethane	250	U
79-01-6	Trichloroethene	250	U
76-13-1	Trichlorotrifluoroethane	250	U
75-69-4	Trichlorofluoromethane	500	U
95-63-6	1,2,4-Trimethylbenzene	250	U
108-67-8	1,3,5-Trimethylbenzene	250	U
75-01-4	Vinyl chloride	500	U
1330-20-7	Xylene(total)	250	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP03-0-3

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.B01136

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-01

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0113601

% Moisture: 21 decanted: (Y/N) N Date Sampled: 01/21/04

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 01/22/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/22/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	420	U
208-96-8	Acenaphthylene	420	U
98-86-2	Acetophenone	420	U*
120-12-7	Anthracene	420	U
1912-24-9	Atrazine	420	U
100-52-7	Benzaldehyde	420	UZ
56-55-3	Benzo(a)anthracene	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U
50-32-8	Benzo(a)pyrene	420	U
111-91-1	bis(2-Chloroethoxy)methane	420	U*
92-52-4	1,1'-Biphenyl	420	U
111-44-4	bis(2-Chloroethyl)ether	420	U
108-60-1	bis(2-Chloroisopropyl)ether	420	U
117-81-7	Bis(2-ethylhexyl)phthalate	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
85-68-7	Butylbenzylphthalate	420	U
105-60-2	Caprolactam	420	U*
86-74-8	Carbazole	420	U
106-47-8	4-Chloroaniline	420	U*
59-50-7	4-Chloro-3-methylphenol	420	U*
91-58-7	2-Chloronaphthalene	420	U
95-57-8	2-Chlorophenol	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
218-01-9	Chrysene	420	U
53-70-3	Dibenz(a,h)anthracene	420	U
132-64-9	Dibenzofuran	580	
91-94-1	3,3'-Dichlorobenzidine	420	U
120-83-2	2,4-Dichlorophenol	420	U*
84-66-2	Diethylphthalate	420	U
105-67-9	2,4-Dimethylphenol	1700	U*
131-11-3	Dimethylphthalate	420	U
84-74-2	Di-n-butylphthalate	420	U

FORM I SV

* = DUE TO THE SAMPLE MATRIX, THE AREA COUNTS FOR THE INTERNAL STANDARD ASSOCIATED WITH THIS ANALYTE WERE 22% OF THAT IN THE ASSOCIATED CALIBRATION STANDARD. RESULTS SHOULD BE CONSIDERED AS ESTIMATED.

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP03-0-3
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Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.B01136

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-01

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0113601

% Moisture: 21 decanted: (Y/N) N Date Sampled: 01/21/04

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 01/22/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/22/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
51-28-5	2,4-Dinitrophenol	4200	U
121-14-2	2,4-Dinitrotoluene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
117-84-0	Di-n-octylphthalate	420	U
206-44-0	Fluoranthene	420	U
86-73-7	Fluorene	150	J
118-74-1	Hexachlorobenzene	420	U
87-68-3	Hexachlorobutadiene	420	U*
77-47-4	Hexachlorocyclopentadiene	420	U
67-72-1	Hexachloroethane	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
78-59-1	Isophorone	420	U*
91-57-6	2-Methylnaphthalene	33000	E*
91-20-3	Naphthalene	12000	E*
106-44-5	4-Methylphenol	420	U
95-48-7	2-Methylphenol	420	U
88-74-4	2-Nitroaniline	1700	U
99-09-2	3-Nitroaniline	1700	U
100-01-6	4-Nitroaniline	1700	U
98-95-3	Nitrobenzene	420	U*
88-75-5	2-Nitrophenol	420	U*
100-02-7	4-Nitrophenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	38	J
108-95-2	Phenol	420	U
129-00-0	Pyrene	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
88-06-2	2,4,6-Trichlorophenol	420	U

(1) - Cannot be separated from Diphenylamine

* = DUE TO THE SAMPLE MATRIX, THE AREA COUNTS FOR THE INTERNAL STANDARD ASSOCIATED WITH THIS ANALYTE WERE 22% OF THAT IN THE ASSOCIATED CALIBRATION STANDARD. RESULTS SHOULD BE CONSIDERED AS ESTIMATED.

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP03-0-3

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.B01136

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-01

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0113601D

% Moisture: 21 decanted: (Y/N) N Date Sampled: 01/21/04

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 01/22/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/26/04

Injection Volume: 0.5(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	2100	UD
208-96-8	Acenaphthylene	2100	UD
98-86-2	Acetophenone	2100	UD
120-12-7	Anthracene	2100	UD
1912-24-9	Atrazine	2100	UD
100-52-7	Benzaldehyde	2100	UD
56-55-3	Benzo(a)anthracene	2100	UD
205-99-2	Benzo(b)fluoranthene	2100	UD
207-08-9	Benzo(k)fluoranthene	2100	UD
191-24-2	Benzo(g,h,i)perylene	2100	UD
50-32-8	Benzo(a)pyrene	2100	UD
111-91-1	bis(2-Chloroethoxy)methane	2100	UD
92-52-4	1,1'-Biphenyl	2100	UD
111-44-4	bis(2-Chloroethyl)ether	2100	UD
108-60-1	bis(2-Chloroisopropyl)ether	2100	UD
117-81-7	Bis(2-ethylhexyl)phthalate	2100	UD
101-55-3	4-Bromophenyl-phenylether	2100	UD
85-68-7	Butylbenzylphthalate	2100	UD
105-60-2	Caprolactam	2100	UD
86-74-8	Carbazole	2100	UD
106-47-8	4-Chloroaniline	2100	UD
59-50-7	4-Chloro-3-methylphenol	2100	UD
91-58-7	2-Chloronaphthalene	2100	UD
95-57-8	2-Chlorophenol	2100	UD
7005-72-3	4-Chlorophenyl-phenylether	2100	UD
218-01-9	Chrysene	2100	UD
53-70-3	Dibenz(a,h)anthracene	2100	UD
132-64-9	Dibenzofuran	2100	UD
91-94-1	3,3'-Dichlorobenzidine	2100	UD
120-83-2	2,4-Dichlorophenol	2100	UD
84-66-2	Diethylphthalate	1300	JD
105-67-9	2,4-Dimethylphenol	8400	UD
131-11-3	Dimethylphthalate	2100	UD
84-74-2	Di-n-butylphthalate	2100	UD
534-52-1	4,6-Dinitro-2-methylphenol	8400	UD
51-28-5	2,4-Dinitrophenol	21000	UD
121-14-2	2,4-Dinitrotoluene	2100	UD

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP03-0-3

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.B01136

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-01

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0113601D

% Moisture: 21 decanted: (Y/N) N Date Sampled: 01/21/04

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 01/22/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/26/04

Injection Volume: 0.5(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
606-20-2	2,6-Dinitrotoluene	2100	UD
117-84-0	Di-n-octylphthalate	2100	UD
206-44-0	Fluoranthene	2100	UD
86-73-7	Fluorene	140	JD
118-74-1	Hexachlorobenzene	2100	UD
87-68-3	Hexachlorobutadiene	2100	UD
77-47-4	Hexachlorocyclopentadiene	2100	UD
67-72-1	Hexachloroethane	2100	UD
193-39-5	Indeno(1,2,3-cd)pyrene	2100	UD
78-59-1	Isophorone	2100	UD
91-57-6	2-Methylnaphthalene	18000	D
91-20-3	Naphthalene	7900	D
106-44-5	4-Methylphenol	2100	UD
95-48-7	2-Methylphenol	2100	UD
88-74-4	2-Nitroaniline	8400	UD
99-09-2	3-Nitroaniline	8400	UD
100-01-6	4-Nitroaniline	8400	UD
98-95-3	Nitrobenzene	2100	UD
88-75-5	2-Nitrophenol	2100	UD
100-02-7	4-Nitrophenol	8400	UD
86-30-6	N-Nitrosodiphenylamine (1)	2100	UD
621-64-7	N-Nitroso-di-n-propylamine	2100	UD
87-86-5	Pentachlorophenol	8400	UD
85-01-8	Phenanthrene	2100	UD
108-95-2	Phenol	2100	UD
129-00-0	Pyrene	2100	UD
95-95-4	2,4,5-Trichlorophenol	2100	UD
88-06-2	2,4,6-Trichlorophenol	2100	UD

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP03-3-6

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.B01136

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-02

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0113602

% Moisture: 24 decanted: (Y/N) N Date Sampled: 01/21/04

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 01/22/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/22/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	430	U
208-96-8	Acenaphthylene	430	U
98-86-2	Acetophenone	430	U
120-12-7	Anthracene	430	U
1912-24-9	Atrazine	430	U
100-52-7	Benzaldehyde	430	U 2
56-55-3	Benzo(a)anthracene	430	U
205-99-2	Benzo(b)fluoranthene	430	U
207-08-9	Benzo(k)fluoranthene	430	U
191-24-2	Benzo(g,h,i)perylene	430	U
50-32-8	Benzo(a)pyrene	430	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
92-52-4	1,1'-Biphenyl	430	U
111-44-4	bis(2-Chloroethyl)ether	430	U
108-60-1	bis(2-Chloroisopropyl)ether	430	U
117-81-7	Bis(2-ethylhexyl)phthalate	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
85-68-7	Butylbenzylphthalate	430	U
105-60-2	Caprolactam	430	U
86-74-8	Carbazole	430	U
106-47-8	4-Chloroaniline	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-58-7	2-Chloronaphthalene	430	U
95-57-8	2-Chlorophenol	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
218-01-9	Chrysene	430	U
53-70-3	Dibenz(a,h)anthracene	430	U
132-64-9	Dibenzofuran	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
120-83-2	2,4-Dichlorophenol	430	U
84-66-2	Diethylphthalate	430	U
105-67-9	2,4-Dimethylphenol	1700	U
131-11-3	Dimethylphthalate	430	U
84-74-2	Di-n-butylphthalate	430	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
51-28-5	2,4-Dinitrophenol	4300	U

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP03-3-6

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.B01136

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-02

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0113602

% Moisture: 24 decanted: (Y/N) N Date Sampled: 01/21/04

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 01/22/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/22/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	430	U
606-20-2	2,6-Dinitrotoluene	430	U
117-84-0	Di-n-octylphthalate	430	U
206-44-0	Fluoranthene	430	U
86-73-7	Fluorene	430	U
118-74-1	Hexachlorobenzene	430	U
87-68-3	Hexachlorobutadiene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
67-72-1	Hexachloroethane	430	U
193-39-5	Indeno(1,2,3-cd)pyrene	430	U
78-59-1	Isophorone	430	U
91-57-6	2-Methylnaphthalene	230	J
91-20-3	Naphthalene	47	J
106-44-5	4-Methylphenol	430	U
95-48-7	2-Methylphenol	430	U
88-74-4	2-Nitroaniline	1700	U
99-09-2	3-Nitroaniline	1700	U
100-01-6	4-Nitroaniline	1700	U
98-95-3	Nitrobenzene	430	U
88-75-5	2-Nitrophenol	430	U
100-02-7	4-Nitrophenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	430	U
621-64-7	N-Nitroso-di-n-propylamine	430	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	430	U
108-95-2	Phenol	430	U
129-00-0	Pyrene	430	U
95-95-4	2,4,5-Trichlorophenol	430	U
88-06-2	2,4,6-Trichlorophenol	430	U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP04-0-3

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.B01136

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-03

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0113603

% Moisture: 22 decanted: (Y/N) N Date Sampled: 01/21/04

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 01/22/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/22/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	420	U
208-96-8	Acenaphthylene	420	U
98-86-2	Acetophenone	420	U
120-12-7	Anthracene	420	U
1912-24-9	Atrazine	420	U
100-52-7	Benzaldehyde	420	UZ
56-55-3	Benzo(a)anthracene	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U
50-32-8	Benzo(a)pyrene	420	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
92-52-4	1,1'-Biphenyl	420	U
111-44-4	bis(2-Chloroethyl)ether	420	U
108-60-1	bis(2-Chloroisopropyl)ether	420	U
117-81-7	Bis(2-ethylhexyl)phthalate	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
85-68-7	Butylbenzylphthalate	420	U
105-60-2	Caprolactam	420	U
86-74-8	Carbazole	420	U
106-47-8	4-Chloroaniline	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-58-7	2-Chloronaphthalene	420	U
95-57-8	2-Chlorophenol	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
218-01-9	Chrysene	420	U
53-70-3	Dibenz(a,h)anthracene	420	U
132-64-9	Dibenzofuran	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
120-83-2	2,4-Dichlorophenol	420	U
84-66-2	Diethylphthalate	420	U
105-67-9	2,4-Dimethylphenol	1700	U
131-11-3	Dimethylphthalate	420	U
84-74-2	Di-n-butylphthalate	420	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
51-28-5	2,4-Dinitrophenol	4200	U

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP04-0-3

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.B01136

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-03

Sample wt/vol: 15.1 (g/mL) G Lab File ID: 0113603

% Moisture: 22 decanted: (Y/N) N Date Sampled: 01/21/04

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:01/22/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/22/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
117-84-0	Di-n-octylphthalate	420	U
206-44-0	Fluoranthene	420	U
86-73-7	Fluorene	420	U
118-74-1	Hexachlorobenzene	420	U
87-68-3	Hexachlorobutadiene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
67-72-1	Hexachloroethane	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
78-59-1	Isophorone	420	U
91-57-6	2-Methylnaphthalene	420	U
91-20-3	Naphthalene	420	U
106-44-5	4-Methylphenol	420	U
95-48-7	2-Methylphenol	420	U
88-74-4	2-Nitroaniline	1700	U
99-09-2	3-Nitroaniline	1700	U
100-01-6	4-Nitroaniline	1700	U
98-95-3	Nitrobenzene	420	U
88-75-5	2-Nitrophenol	420	U
100-02-7	4-Nitrophenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	420	U
108-95-2	Phenol	420	U
129-00-0	Pyrene	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
88-06-2	2,4,6-Trichlorophenol	420	U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP04-3-6

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.B01136

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-04

Sample wt/vol: 15.3 (g/mL) G Lab File ID: 0113604

% Moisture: 23 decanted: (Y/N) N Date Sampled: 01/21/04

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 01/22/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/22/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	420	U
208-96-8	Acenaphthylene	420	U
98-86-2	Acetophenone	420	U
120-12-7	Anthracene	420	U
1912-24-9	Atrazine	420	U
100-52-7	Benzaldehyde	420	UZ
56-55-3	Benzo(a)anthracene	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U
50-32-8	Benzo(a)pyrene	420	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
92-52-4	1,1'-Biphenyl	420	U
111-44-4	bis(2-Chloroethyl)ether	420	U
108-60-1	bis(2-Chloroisopropyl)ether	420	U
117-81-7	Bis(2-ethylhexyl)phthalate	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
85-68-7	Butylbenzylphthalate	420	U
105-60-2	Caprolactam	420	U
86-74-8	Carbazole	420	U
106-47-8	4-Chloroaniline	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-58-7	2-Chloronaphthalene	420	U
95-57-8	2-Chlorophenol	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
218-01-9	Chrysene	420	U
53-70-3	Dibenz(a,h)anthracene	420	U
132-64-9	Dibenzofuran	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
120-83-2	2,4-Dichlorophenol	420	U
84-66-2	Diethylphthalate	420	U
105-67-9	2,4-Dimethylphenol	1700	U
131-11-3	Dimethylphthalate	420	U
84-74-2	Di-n-butylphthalate	420	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
51-28-5	2,4-Dinitrophenol	4200	U

M 1/26/04

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP04-3-6

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.B01136

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-04

Sample wt/vol: 15.3 (g/mL) G Lab File ID: 0113604

% Moisture: 23 decanted: (Y/N) N Date Sampled: 01/21/04

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 01/22/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/22/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
117-84-0	Di-n-octylphthalate	420	U
206-44-0	Fluoranthene	420	U
86-73-7	Fluorene	420	U
118-74-1	Hexachlorobenzene	420	U
87-68-3	Hexachlorobutadiene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
67-72-1	Hexachloroethane	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
78-59-1	Isophorone	420	U
91-57-6	2-Methylnaphthalene	420	U
91-20-3	Naphthalene	420	U
106-44-5	4-Methylphenol	420	U
95-48-7	2-Methylphenol	420	U
88-74-4	2-Nitroaniline	1700	U
99-09-2	3-Nitroaniline	1700	U
100-01-6	4-Nitroaniline	1700	U
98-95-3	Nitrobenzene	420	U
88-75-5	2-Nitrophenol	420	U
100-02-7	4-Nitrophenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	420	U
108-95-2	Phenol	420	U
129-00-0	Pyrene	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
88-06-2	2,4,6-Trichlorophenol	420	U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP06-0-3

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.B01136

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-05

Sample wt/vol: 15.4 (g/mL) G Lab File ID: 0113605

% Moisture: 24 decanted: (Y/N) N Date Sampled: 01/21/04

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 01/22/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/23/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	420	U
208-96-8	Acenaphthylene	420	U
98-86-2	Acetophenone	420	U
120-12-7	Anthracene	420	U
1912-24-9	Atrazine	420	U
100-52-7	Benzaldehyde	420	U
56-55-3	Benzo(a)anthracene	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U
50-32-8	Benzo(a)pyrene	420	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
92-52-4	1,1'-Biphenyl	420	U
111-44-4	bis(2-Chloroethyl)ether	420	U
108-60-1	bis(2-Chloroisopropyl)ether	420	U
117-81-7	Bis(2-ethylhexyl)phthalate	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
85-68-7	Butylbenzylphthalate	420	U
105-60-2	Caprolactam	420	U
86-74-8	Carbazole	420	U
106-47-8	4-Chloroaniline	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-58-7	2-Chloronaphthalene	420	U
95-57-8	2-Chlorophenol	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
218-01-9	Chrysene	420	U
53-70-3	Dibenz(a,h)anthracene	420	U
132-64-9	Dibenzofuran	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
120-83-2	2,4-Dichlorophenol	420	U
84-66-2	Diethylphthalate	420	U
105-67-9	2,4-Dimethylphenol	1700	U
131-11-3	Dimethylphthalate	420	U
84-74-2	Di-n-butylphthalate	420	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
51-28-5	2,4-Dinitrophenol	4200	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP06-0-3

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.B01136

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-05

Sample wt/vol: 15.4 (g/mL) G Lab File ID: 0113605

% Moisture: 24 decanted: (Y/N) N Date Sampled: 01/21/04

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 01/22/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/23/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
117-84-0	Di-n-octylphthalate	420	U
206-44-0	Fluoranthene	420	U
86-73-7	Fluorene	420	U
118-74-1	Hexachlorobenzene	420	U
87-68-3	Hexachlorobutadiene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
67-72-1	Hexachloroethane	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
78-59-1	Isophorone	420	U
91-57-6	2-Methylnaphthalene	420	U
91-20-3	Naphthalene	420	U
106-44-5	4-Methylphenol	420	U
95-48-7	2-Methylphenol	420	U
88-74-4	2-Nitroaniline	1700	U
99-09-2	3-Nitroaniline	1700	U
100-01-6	4-Nitroaniline	1700	U
98-95-3	Nitrobenzene	420	U
88-75-5	2-Nitrophenol	420	U
100-02-7	4-Nitrophenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	420	U
108-95-2	Phenol	420	U
129-00-0	Pyrene	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
88-06-2	2,4,6-Trichlorophenol	420	U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP06-3-6

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.B01136

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-06

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0113606

% Moisture: 23 decanted: (Y/N) N Date Sampled: 01/21/04

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 01/22/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/23/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	430	U
208-96-8	Acenaphthylene	430	U
98-86-2	Acetophenone	430	U
120-12-7	Anthracene	430	U
1912-24-9	Atrazine	430	U
100-52-7	Benzaldehyde	430	U
56-55-3	Benzo(a)anthracene	430	U
205-99-2	Benzo(b)fluoranthene	430	U
207-08-9	Benzo(k)fluoranthene	430	U
191-24-2	Benzo(g,h,i)perylene	430	U
50-32-8	Benzo(a)pyrene	430	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
92-52-4	1,1'-Biphenyl	430	U
111-44-4	bis(2-Chloroethyl)ether	430	U
108-60-1	bis(2-Chloroisopropyl)ether	430	U
117-81-7	Bis(2-ethylhexyl)phthalate	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
85-68-7	Butylbenzylphthalate	430	U
105-60-2	Caprolactam	430	U
86-74-8	Carbazole	430	U
106-47-8	4-Chloroaniline	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-58-7	2-Chloronaphthalene	430	U
95-57-8	2-Chlorophenol	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
218-01-9	Chrysene	430	U
53-70-3	Dibenz(a,h)anthracene	430	U
132-64-9	Dibenzofuran	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
120-83-2	2,4-Dichlorophenol	430	U
84-66-2	Diethylphthalate	430	U
105-67-9	2,4-Dimethylphenol	1700	U
131-11-3	Dimethylphthalate	430	U
84-74-2	Di-n-butylphthalate	430	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
51-28-5	2,4-Dinitrophenol	4300	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP06-3-6

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.B01136

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-06

Sample wt/vol: 15.2 (g/mL) G Lab File ID: 0113606

% Moisture: 23 decanted: (Y/N) N Date Sampled: 01/21/04

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:01/22/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/23/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	430	U
606-20-2	2,6-Dinitrotoluene	430	U
117-84-0	Di-n-octylphthalate	430	U
206-44-0	Fluoranthene	430	U
86-73-7	Fluorene	430	U
118-74-1	Hexachlorobenzene	430	U
87-68-3	Hexachlorobutadiene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
67-72-1	Hexachloroethane	430	U
193-39-5	Indeno(1,2,3-cd)pyrene	430	U
78-59-1	Isophorone	430	U
91-57-6	2-Methylnaphthalene	430	U
91-20-3	Naphthalene	430	U
106-44-5	4-Methylphenol	430	U
95-48-7	2-Methylphenol	430	U
88-74-4	2-Nitroaniline	1700	U
99-09-2	3-Nitroaniline	1700	U
100-01-6	4-Nitroaniline	1700	U
98-95-3	Nitrobenzene	430	U
88-75-5	2-Nitrophenol	430	U
100-02-7	4-Nitrophenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	430	U
621-64-7	N-Nitroso-di-n-propylamine	430	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	430	U
108-95-2	Phenol	430	U
129-00-0	Pyrene	430	U
95-95-4	2,4,5-Trichlorophenol	430	U
88-06-2	2,4,6-Trichlorophenol	430	U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0122BS1

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.B01136

Matrix: (soil/water) SOIL Lab Sample ID: SBLK0122BS1

Sample wt/vol: 15.0 (g/mL) G Lab File ID: SBLK0122

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 01/22/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/23/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	330	U
208-96-8	Acenaphthylene	330	U
98-86-2	Acetophenone	330	U
120-12-7	Anthracene	330	U
1912-24-9	Atrazine	330	U
100-52-7	Benzaldehyde	330	U
56-55-3	Benzo(a)anthracene	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U
50-32-8	Benzo(a)pyrene	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
92-52-4	1,1'-Biphenyl	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
108-60-1	bis(2-Chloroisopropyl)ether	330	U
117-81-7	Bis(2-ethylhexyl)phthalate	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
85-68-7	Butylbenzylphthalate	330	U
105-60-2	Caprolactam	330	U
86-74-8	Carbazole	330	U
106-47-8	4-Chloroaniline	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-58-7	2-Chloronaphthalene	330	U
95-57-8	2-Chlorophenol	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
218-01-9	Chrysene	330	U
53-70-3	Dibenz(a,h)anthracene	330	U
132-64-9	Dibenzofuran	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
120-83-2	2,4-Dichlorophenol	330	U
84-66-2	Diethylphthalate	330	U
105-67-9	2,4-Dimethylphenol	1300	U
131-11-3	Dimethylphthalate	330	U
84-74-2	Di-n-butylphthalate	330	U
534-52-1	4,6-Dinitro-2-methylphenol	1300	U
51-28-5	2,4-Dinitrophenol	3300	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0122BS1

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.B01136

Matrix: (soil/water) SOIL Lab Sample ID: SBLK0122BS1

Sample wt/vol: 15.0 (g/mL) G Lab File ID: SBLK0122

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted: 01/22/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/23/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
117-84-0	Di-n-octylphthalate	330	U
206-44-0	Fluoranthene	330	U
86-73-7	Fluorene	330	U
118-74-1	Hexachlorobenzene	330	U
87-68-3	Hexachlorobutadiene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
67-72-1	Hexachloroethane	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
78-59-1	Isophorone	330	U
91-57-6	2-Methylnaphthalene	330	U
91-20-3	Naphthalene	330	U
106-44-5	4-Methylphenol	330	U
95-48-7	2-Methylphenol	330	U
88-74-4	2-Nitroaniline	1300	U
99-09-2	3-Nitroaniline	1300	U
100-01-6	4-Nitroaniline	1300	U
98-95-3	Nitrobenzene	330	U
88-75-5	2-Nitrophenol	330	U
100-02-7	4-Nitrophenol	1300	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
87-86-5	Pentachlorophenol	1300	U
85-01-8	Phenanthrene	330	U
108-95-2	Phenol	330	U
129-00-0	Pyrene	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
88-06-2	2,4,6-Trichlorophenol	330	U

(1) - Cannot be separated from Diphenylamine

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.B01136

Level: (low/med) LOW

	CLIENT SAMPLE NO.	S1 (2FP) #	S2 (PHL) #	S3 (NBZ) #	S4 (FBP) #	S5 (TBP) #	S6 (TPH) #	S7 #	S8 #	TOT OUT
01	F4WSM-DP03-0	64	63	98	79	95	98			0
02	F4WSM-DP03-3	56	56	59	62	66	89			0
03	F4WSM-DP04-0	61	61	65	69	85	92			0
04	F4WSM-DP04-3	51	51	55	56	57	84			0
05	SBLK0122BS1	62	61	70	73	79	106			0
06	SBLK0122BS1L	62	61	63	73	102	111			0
07	F4WSM-DP06-3	55	55	64	67	67	100			0
08	F4WSM-DP06-0	59	57	67	69	73	94			0
09	F4WSM-DP03-0	65D	70D	67D	80D	54D	100D			0
10										
11										
12										
13										
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30										

		ELAB QC LIMITS	SPIKE CONC (UG/KG)
S1 (2FP)	= 2-Fluorophenol	(21-100)	17000
S2 (PHL)	= Phenol-d6	(19-106)	17000
S3 (NBZ)	= Nitrobenzene-d5	(27-100)	8400
S4 (FBP)	= 2-Fluorobiphenyl	(31-100)	8400
S5 (TBP)	= 2,4,6-Tribromophenol	(38-121)	17000
S6 (TPH)	= Terphenyl-d14	(35-123)	8400

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

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.B01136

Matrix Spike - Client Sample No.: SBLK0122BS1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	LCS CONCENTRATION (UG/KG)	LCS % REC #	QC. LIMITS REC.
Acenaphthene	3333	0.0000	2803	84	27-116
Acenaphthylene	3333	0.0000	3028	91	33-120
Anthracene	3333	0.0000	3152	94	35-122
Benzoic acid	3333	0.0000	1702	51	30-160
Benzo(a)anthracene	3333	0.0000	3292	99	33-139
Benzo(b)fluoranthene	3333	0.0000	3048	91	30-140
Benzo(k)fluoranthene	3333	0.0000	3067	92	30-150
Benzo(g,h,i)perylene	3333	0.0000	3139	94	30-146
Benzo(a)pyrene	3333	0.0000	3169	95	30-144
Benzyl alcohol	3333	0.0000	2412	72	30-117
bis(2-Chloroethoxy)meth	3333	0.0000	2187	66	30-126
bis(2-Chloroethyl)ether	3333	0.0000	2153	64	30-121
bis(2-Chloroisopropyl)e	3333	0.0000	2478	74	30-131
Bis(2-ethylhexyl)phthal	3333	0.0000	3652	110	34-149
4-Bromophenyl-phenyleth	3333	0.0000	2371	71	34-120
Butylbenzylphthalate	3333	0.0000	3666	110	30-153
Carbazole	3333	0.0000	3709	111	30-142
4-Chloroaniline	3333	0.0000	1939	58	32-121
4-Chloro-3-methylphenol	3333	0.0000	2650	80	18-111
2-Chloronaphthalene	3333	0.0000	2727	82	32-115
2-Chlorophenol	3333	0.0000	2494	75	10-110
4-Chlorophenyl-phenylet	3333	0.0000	2893	87	33-118
Chrysene	3333	0.0000	3261	98	33-142
Dibenz(a,h)anthracene	3333	0.0000	3059	92	34-148
Dibenzofuran	3333	0.0000	2826	85	34-120
3,3'-Dichlorobenzidine	3333	0.0000	2981	89	31-137
1,4-Dichlorobenzene	3333	0.0000	2149	64	14-110
1,3-Dichlorobenzene	3333	0.0000	2118	64	30-115

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.B01136

Matrix Spike - Client Sample No.: SBLK0122BS1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	LCS CONCENTRATION (UG/KG)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	3333	0.0000	2261	68	30-115
2,4-Dichlorophenol	3333	0.0000	2397	72	32-121
Diethylphthalate	3333	0.0000	2869	86	32-126
2,4-Dimethylphenol	3333	0.0000	2238	67	33-119
Dimethylphthalate	3333	0.0000	2752	82	36-124
Di-n-butylphthalate	3333	0.0000	2946	88	36-135
4,6-Dinitro-2-methylphe	3333	0.0000	3010	90	30-160
2,4-Dinitrophenol	3333	0.0000	2499	75	34-160
2,4-Dinitrotoluene	3333	0.0000	3143	94	34-110
2,6-Dinitrotoluene	3333	0.0000	3213	96	32-133
Di-n-octylphthalate	3333	0.0000	3600	108	50-160
Fluoranthene	3333	0.0000	3086	92	32-122
Fluorene	3333	0.0000	2949	88	32-127
Hexachlorobenzene	3333	0.0000	3192	96	32-127
Hexachlorobutadiene	3333	0.0000	2145	64	30-118
Hexachlorocyclopentadie	3333	0.0000	1468	44	30-123
Hexachloroethane	3333	0.0000	2051	62	30-115
Indeno(1,2,3-cd)pyrene	3333	0.0000	3124	94	34-147
Isophorone	3333	0.0000	2264	68	34-115
2-Methylnaphthalene	3333	0.0000	2497	75	30-120
4-Methylphenol	3333	0.0000	2614	78	30-127
2-Methylphenol	3333	0.0000	2514	75	30-123
Naphthalene	3333	0.0000	2284	68	30-115
2-Nitroaniline	3333	0.0000	3123	94	30-148
3-Nitroaniline	3333	0.0000	2482	74	30-135
4-Nitroaniline	3333	0.0000	2718	82	30-148
Nitrobenzene	3333	0.0000	1996	60	30-115
2-Nitrophenol	3333	0.0000	2524	76	30-126

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.B01136

Matrix Spike - Client Sample No.: SBLK0122BS1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	LCS CONCENTRATION (UG/KG)	LCS % REC #	QC. LIMITS REC.
4-Nitrophenol	3333	0.0000	2476	74	24-120
N-Nitrosodiphenylamine	3333	0.0000	2874	86	50-134
N-Nitroso-di-n-prop.(1)	3333	0.0000	2112	63	24-112
Pentachlorophenol	3333	0.0000	2765	83	10-114
Phenanthrene	3333	0.0000	3129	94	35-119
Phenol	3333	0.0000	2394	72	10-110
Pyrene	3333	0.0000	3784	114	33-150
1,2,4-Trichlorobenzene	3333	0.0000	2158	65	19-110
2,4,5-Trichlorophenol	3333	0.0000	2958	89	34-128
2,4,6-Trichlorophenol	3333	0.0000	2870	86	35-120

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 66 outside limits

COMMENTS: _____

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

SBLK0122BS1

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.B01136

Lab File ID: SBLK0122 Lab Sample ID: SBLK0122BS1

Instrument ID: BNA3 Date Extracted: 01/22/04

Matrix: (soil/water) SOIL Date Analyzed: 01/23/04

Level: (low/med) LOW GPC Cleanup: (Y/N) N Time Analyzed: 1612

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	F4WSM-DP03-0	0401136-01	0113601	01/22/04
02	F4WSM-DP03-3	0401136-02	0113602	01/22/04
03	F4WSM-DP04-0	0401136-03	0113603	01/22/04
04	F4WSM-DP04-3	0401136-04	0113604	01/22/04
05	SBLK0122BS1L	SBLK0122BS1LCS	SLCS0122	01/23/04
06	F4WSM-DP06-3	0401136-06	0113606	01/23/04
07	F4WSM-DP06-0	0401136-05	0113605	01/23/04
08	F4WSM-DP03-0	0401136-01	0113601D	01/26/04
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COMMENTS:

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0122BS1

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.B01136

Matrix: (soil/water) SOIL Lab Sample ID: SBLK0122BS1

Sample wt/vol: 15.0 (g/mL) G Lab File ID: SBLK0122

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:01/22/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/23/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	330	U
208-96-8	Acenaphthylene	330	U
98-86-2	Acetophenone	330	U
120-12-7	Anthracene	330	U
1912-24-9	Atrazine	330	U
100-52-7	Benzaldehyde	330	U
56-55-3	Benzo(a)anthracene	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U
50-32-8	Benzo(a)pyrene	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
92-52-4	1,1'-Biphenyl	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
108-60-1	bis(2-Chloroisopropyl)ether	330	U
117-81-7	Bis(2-ethylhexyl)phthalate	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
85-68-7	Butylbenzylphthalate	330	U
105-60-2	Caprolactam	330	U
86-74-8	Carbazole	330	U
106-47-8	4-Chloroaniline	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-58-7	2-Chloronaphthalene	330	U
95-57-8	2-Chlorophenol	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
218-01-9	Chrysene	330	U
53-70-3	Dibenz(a,h)anthracene	330	U
132-64-9	Dibenzofuran	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
120-83-2	2,4-Dichlorophenol	330	U
84-66-2	Diethylphthalate	330	U
105-67-9	2,4-Dimethylphenol	330	U
131-11-3	Dimethylphthalate	330	U
84-74-2	Di-n-butylphthalate	330	U
534-52-1	4,6-Dinitro-2-methylphenol	800	U
51-28-5	2,4-Dinitrophenol	800	U
121-14-2	2,4-Dinitrotoluene	330	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK0122BS1

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: NA SAS No.: NA SDG No.: BHA.B01136

Matrix: (soil/water) SOIL Lab Sample ID: SBLK0122BS1

Sample wt/vol: 15.0 (g/mL) G Lab File ID: SBLK0122

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SOXH Date Extracted:01/22/04

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/23/04

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
606-20-2	2,6-Dinitrotoluene	330	U
117-84-0	Di-n-octylphthalate	330	U
206-44-0	Fluoranthene	330	U
86-73-7	Fluorene	330	U
118-74-1	Hexachlorobenzene	330	U
87-68-3	Hexachlorobutadiene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
67-72-1	Hexachloroethane	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
78-59-1	Isophorone	330	U
91-57-6	2-Methylnaphthalene	330	U
91-20-3	Naphthalene	330	U
106-44-5	4-Methylphenol	330	U
95-48-7	2-Methylphenol	330	U
88-74-4	2-Nitroaniline	800	U
99-09-2	3-Nitroaniline	800	U
100-01-6	4-Nitroaniline	800	U
98-95-3	Nitrobenzene	330	U
88-75-5	2-Nitrophenol	330	U
100-02-7	4-Nitrophenol	800	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
87-86-5	Pentachlorophenol	800	U
85-01-8	Phenanthrene	330	U
108-95-2	Phenol	330	U
129-00-0	Pyrene	330	U
95-95-4	2,4,5-Trichlorophenol	800	U
88-06-2	2,4,6-Trichlorophenol	330	U

(1) - Cannot be separated from Diphenylamine

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP03-0-3

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: 1136-01 SAS No.: NA SDG No.: BHA.G01136-01

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-01

Sample wt/vol: 5.2 (g/mL) G Lab File ID: 006F0101

Level: (low/med) HIGH Date Sampled: 01/21/04

% Moisture: not dec. 21 Date Analyzed: 01/22/04

GC Column: RTX 502.2 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) MG/KG	Q
	----------Gasoline Range Organics_____	120	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP03-3-6

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: 1136-01 SAS No.: NA SDG No.: BHA.G01136-01

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-02

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 009F0101

Level: (low/med) HIGH Date Sampled: 01/21/04

% Moisture: not dec. 24 Date Analyzed: 01/22/04

GC Column: RTX 502.2 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) MG/KG	Q
	----------Gasoline Range Organics_____	13	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP04-0-3

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: 1136-01 SAS No.: NA SDG No.: BHA.G01136-01

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-03

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 011F0101

Level: (low/med) HIGH Date Sampled: 01/21/04

% Moisture: not dec. 22 Date Analyzed: 01/22/04

GC Column: RTX 502.2 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) MG/KG	Q
	----------Gasoline Range Organics____	6.3	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP04-3-6

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: 1136-01 SAS No.: NA SDG No.: BHA.G01136-01

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-04

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 012F0101

Level: (low/med) HIGH Date Sampled: 01/21/04

% Moisture: not dec. 23 Date Analyzed: 01/22/04

GC Column: RTX 502.2 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) MG/KG	Q
	----------Gasoline Range Organics_____	6.5	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP06-0-3

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: 1136-01 SAS No.: NA SDG No.: BHA.G01136-01

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-05

Sample wt/vol: 5.2 (g/mL) G Lab File ID: 013F0101

Level: (low/med) HIGH Date Sampled: 01/21/04

% Moisture: not dec. 24 Date Analyzed: 01/22/04

GC Column: RTX 502.2 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) MG/KG	Q
	----------Gasoline Range Organics_____	6.3	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP06-3-6

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: 1136-01 SAS No.: NA SDG No.: BHA.G01136-01

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-06

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 014F0101

Level: (low/med) HIGH Date Sampled: 01/21/04

% Moisture: not dec. 23 Date Analyzed: 01/22/04

GC Column: RTX 502.2 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) MG/KG	Q
	----------Gasoline Range Organics_____	6.4	U

FORM I VOA

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: 1136-01 SAS No.: NA SDG No.: BHA.G01136-01

Level:(low/med) HIGH

	CLIENT SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	SMC4	TOT OUT
01	GS1BLK0122	62				0
02	GS1BLK0122LC	98				0
03	F4WSM-DP03-0	185*				1
04	F4WSM-DP03-3	125				0
05	F4WSM-DP04-0	74				0
06	F4WSM-DP04-3	62				0
07	F4WSM-DP06-0	62				0
08	F4WSM-DP06-3	57				0
09	F4WSM-DP04-0	90				0
10	F4WSM-DP04-0	91				0
11						
12						
13						
14						
15						
16						
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19						
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22						
23						
24						
25						
26						
27						
28						
29						
30						

		ELAB QC LIMITS	SPIKE CONC (mg/Kg)
SMC1	= 4-Bromofluorobenzene	(50-150)	2.5

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: 1136-01 SAS No.: NA SDG No.: BHA.G01136-01

Matrix Spike - Client Sample No.: GS1BLK0122 Level:(low/med) HIGH

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC #	QC. LIMITS REC.
Gasoline Range Organics	22.50	0.0000	25.62	114	50-150

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 1 outside limits

COMMENTS: _____

FORM 3
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: 1136-01 SAS No.: NA SDG No.: BHA.G01136-01

Matrix Spike - Client Sample No.: F4WSM-DP04-0-3 Lab Sample ID: 0401136-0

Level:(low/med) HIGH

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC #	QC. LIMITS REC.
Gasoline Range Organics	28.28	0.0000	30.59	108	50-150

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics	28.28	30.35	107	1	20	50-150

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

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

GS1BLK0122

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: 1136-01 SAS No.: NA SDG No.: BHA.G01136-01

Lab File ID: 003F0101 Lab Sample ID: GS1BLK0122

Date Analyzed: 01/22/04 Time Analyzed: 1415

GC Column: RTX 502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: GCVOA

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	GS1BLK0122LC	GS1BLK0122LCS	004F0101	1452
02	F4WSM-DP03-0	0401136-01	006F0101	1605
03	F4WSM-DP03-3	0401136-02	009F0101	1757
04	F4WSM-DP04-0	0401136-03	011F0101	1911
05	F4WSM-DP04-3	0401136-04	012F0101	1948
06	F4WSM-DP06-0	0401136-05	013F0101	2026
07	F4WSM-DP06-3	0401136-06	014F0101	2102
08	F4WSM-DP04-0	0401136-03MS	015F0101	2140
09	F4WSM-DP04-0	0401136-03MSD	017F0101	2254
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
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25				
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27				
28				
29				
30				

COMMENTS:

FORM IV VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

GS1BLK0122

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: 1136-01 SAS No.: NA SDG No.: BHA.G01136-01

Matrix: (soil/water) SOIL Lab Sample ID: GS1BLK0122

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 003F0101

Level: (low/med) HIGH Date Sampled: _____

% Moisture: not dec. 0 Date Analyzed: 01/22/04

GC Column: RTX 502.2 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) MG/KG	Q
	----------Gasoline Range Organics_____	5.0	U

FORM I VOA

FORM 1
DRO/ORO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP03-0-3

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: 0401136-01 SAS No.: NA SDG No.: BHA.D01136-01

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-01

Sample wt/vol: 25.6 (g/mL) G Lab File ID: 018F0401

% Moisture: 21 decanted: (Y/N) N Date Sampled: 01/21/04

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 01/22/04

Concentrated Extract Volume: 1(mL) Date Analyzed: 01/24/04

Injection Volume: 1.0(uL) Dilution Factor: 100.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
	DRO (C10-C22)	5500	D
	ORO (>C22-C36)	620	UD*

FORM I PRO

FORM 1
DRO/ORO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP03-0-3

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: 0401136-01 SAS No.: NA SDG No.: BHA.D01136-01

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-01

Sample wt/vol: 25.6 (g/mL) G Lab File ID: 019F0401

% Moisture: 21 decanted: (Y/N) N Date Sampled: 01/21/04

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 01/22/04

Concentrated Extract Volume: 1(mL) Date Analyzed: 01/24/04

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
	----------DRO (C10-C22)	4800	E
	----------ORO (>C22-C36)	6.8	*

FORM I PRO

FORM 1
DRO/ORO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP03-3-6

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: 0401136-01 SAS No.: NA SDG No.: BHA.D01136-01

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-02

Sample wt/vol: 25.4 (g/mL) G Lab File ID: 020F0401

% Moisture: 24 decanted: (Y/N) N Date Sampled: 01/21/04

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 01/22/04

Concentrated Extract Volume: 1(mL) Date Analyzed: 01/24/04

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
	DRO (C10-C22)	64	
	ORO (>C22-C36)	6.4	U*

FORM I PRO

FORM 1
DRO/ORO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP04-0-3

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: 0401136-01 SAS No.: NA SDG No.: BHA.D01136-01

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-03

Sample wt/vol: 25.1 (g/mL) G Lab File ID: 022F0401

% Moisture: 22 decanted: (Y/N) N Date Sampled: 01/21/04

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 01/22/04

Concentrated Extract Volume: 1(mL) Date Analyzed: 01/24/04

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
	----------DRO (C10-C22)	160	
	----------ORO (>C22-C36)	6.2	J*

FORM I PRO

FORM 1
DRO/ORO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP04-3-6

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: 0401136-01 SAS No.: NA SDG No.: BHA.D01136-01

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-04

Sample wt/vol: 25.3 (g/mL) G Lab File ID: 023F0401

% Moisture: 23 decanted: (Y/N) N Date Sampled: 01/21/04

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 01/22/04

Concentrated Extract Volume: 1(mL) Date Analyzed: 01/24/04

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
	DRO (C10-C22)	23	
	ORO (>C22-C36)	7.3	*

FORM I PRO

FORM 1
DRO/ORO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP06-0-3

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: 0401136-01 SAS No.: NA SDG No.: BHA.D01136-01

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-05

Sample wt/vol: 25.4 (g/mL) G Lab File ID: 024F0401

% Moisture: 24 decanted: (Y/N) N Date Sampled: 01/21/04

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 01/22/04

Concentrated Extract Volume: 1(mL) Date Analyzed: 01/25/04

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
	----------DRO (C10-C22)	3.8	U
	----------ORO (>C22-C36)	6.4	U*

FORM I PRO

FORM 1
DRO/ORO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

F4WSM-DP06-3-6

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: 0401136-01 SAS No.: NA SDG No.: BHA.D01136-01

Matrix: (soil/water) SOIL Lab Sample ID: 0401136-06

Sample wt/vol: 25.4 (g/mL) G Lab File ID: 025F0401

% Moisture: 23 decanted: (Y/N) N Date Sampled: 01/21/04

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 01/22/04

Concentrated Extract Volume: 1(mL) Date Analyzed: 01/25/04

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
	----------DRO (C10-C22)	3.8	U
	----------ORO (>C22-C36)	6.4	U*

FORM I PRO

FORM 2
SOIL DRO/ORO SURROGATE RECOVERY

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: 0401136-01 SAS No.: NA SDG No.: BHA.D01136-01

GC Column(1): RTX-5 ID: 0.32 (mm)

	CLIENT SAMPLE NO.	S1 %REC #	S2 %REC #	S3 %REC #	S4 %REC #	S5 %REC #	S6 %REC #	TOT OUT
01	DS1BLK0122	102						0
02	DS1BLK0122LC	88						0
03	F4WSM-DP03-0	0D						0
04	F4WSM-DP03-0	106						0
05	F4WSM-DP03-3	72						0
06	F4WSM-DP04-0	59						0
07	F4WSM-DP04-3	55						0
08	F4WSM-DP06-0	81						0
09	F4WSM-DP06-3	69						0
10								
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30								

		ELAB QC LIMITS	SPIKE CONC (mg/Kg)
S1	= Ortho-Terphenyl	(50-150)	0.80

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

FORM 3
SOIL DRO/ORO LAB CONTROL SAMPLE

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: 0401136-01 SAS No.: NA SDG No.: BHA.D01136-01

Matrix Spike - Client Sample No.: DS1BLK0122

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC #	QC. LIMITS REC.
DIESEL RANGE ORGANICS (C10-C22)	40.00	0.0000	40.75	102	50-150

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 1 outside limits

COMMENTS: _____

FORM 4
DRO/ORO METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

DS1BLK0122

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: 0401136-01 SAS No.: NA SDG No.: BHA.D01136-01

Lab Sample ID: DS1BLK0122 Lab File ID: 016F0401

Matrix (soil/water) SOIL Extraction: (SepF/Cont/Sonc/Soxh) SONC

Sulfur Cleanup (Y/N) N Date Extracted: 01/22/04

Date Analyzed (1): 01/24/04 Date Analyzed (2):

Time Analyzed (1): 1849 Time Analyzed (2):

Instrument ID (1): GCTCDFID Instrument ID (2):

GC Column (1): RTX-5 ID: 0.32(mm) GC Column (2): ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	DS1BLK0122LC	DS1BLK0122LCS	01/24/04	
02	F4WSM-DP03-0	0401136-01	01/24/04	
03	F4WSM-DP03-0	0401136-01	01/24/04	
04	F4WSM-DP03-3	0401136-02	01/24/04	
05	F4WSM-DP04-0	0401136-03	01/24/04	
06	F4WSM-DP04-3	0401136-04	01/24/04	
07	F4WSM-DP06-0	0401136-05	01/25/04	
08	F4WSM-DP06-3	0401136-06	01/25/04	
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
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21				
22				
23				
24				
25				
26				

COMMENTS:

FORM 1
DRO/ORO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DS1BLK0122

Lab Name: ELAB Contract: BHATE

Lab Code: ELABN Case No.: 0401136-01 SAS No.: NA SDG No.: BHA.D01136-01

Matrix: (soil/water) SOIL Lab Sample ID: DS1BLK0122

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 016F0401

% Moisture: 0 decanted: (Y/N) N Date Sampled: _____

Extraction: (SepF/Cont/Sonc/Soxh) SONC Date Extracted: 01/22/04

Concentrated Extract Volume: 1(mL) Date Analyzed: 01/24/04

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
	----------DRO (C10-C22)	3.0	U
	----------ORO (>C22-C36)	5.0	U*

FORM I PRO

ANALYTICAL REPORT

MAIN DATA PACKAGE - INORGANIC

BHATE

WO #0401136

Marcia K. McGinnity
Senior Project Manager
ELAB of Tennessee, LLC.

February 17, 2004

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WO# 0401136

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INORGANIC CASE NARRATIVE
BHATE
Work Order #0401136
January, 2004

ELAB ID	Client ID
0401136-01	F4WSM-DP03-0-3
0401136-02	F4WSM-DP03-3-6
0401136-03	F4WSM-DP04-0-3
0401136-04	F4WSM-DP04-3-6
0401136-05	F4WSM-DP06-0-3
0401136-06	F4WSM-DP06-3-6

Methods:

The samples were digested for ICAP metals by US EPA SW846 method 3050B and analyzed by method 6010B. Mercury was digested and analyzed by USEPA SW846 method 7471A. Method 2540 from Standard Methods 18th edition was used to analyze percent solids.

Specific Comments:

All analyses performed by the Inorganic section were completed meeting satisfactorily the corresponding specifications for Quality Control.

Bhate

Parameters Requested

Lab Sample ID	Field ID	Matrix	Date Time Sampled	Parameters requested
0401136-01	F4WSM-DP03-0-3	Soil	1/21/04 2:40:00 PM	% Solids
				Arsenic
				Barium
				Cadmium
				Chromium
				Lead
				Mercury
				Selenium
				Silver
0401136-02	F4WSM-DP03-3-6	Soil	1/21/04 2:47:00 PM	% Solids
				Arsenic
				Barium
				Cadmium
				Chromium
				Lead
				Mercury
				Selenium
				Silver
0401136-03	F4WSM-DP04-0-3	Soil	1/21/04 1:10:00 PM	% Solids
				Arsenic
				Barium
				Cadmium
				Chromium
				Lead
				Mercury
				Selenium
				Silver
0401136-04	F4WSM-DP04-3-6	Soil	1/21/04 1:15:00 PM	% Solids
				Arsenic
				Barium
				Cadmium
				Chromium
				Lead

Lab Sample ID	Field ID	Matrix	Date_Time Sampled	Parameters requested
0401136-04	F4WSM-DP04-3-6	Soil	1/21/04 1:15:00 PM	Mercury
				Selenium
				Silver
0401136-05	F4WSM-DP06-0-3	Soil	1/21/04 3:15:00 PM	% Solids
				Arsenic
				Barium
				Cadmium
				Chromium
				Lead
				Mercury
				Selenium
				Silver
0401136-06	F4WSM-DP06-3-6	Soil	1/21/04 3:20:00 PM	% Solids
				Arsenic
				Barium
				Cadmium
				Chromium
				Lead
				Mercury
				Selenium
				Silver

EAI
Environmental Associates, Inc.
1608 13th Avenue South, Suite 300
Birmingham, Alabama 35205
Tel: 205-918-4000
Fax: 205-918-4050

Chain of Custody and Analytical Request

Page 1

Project Number: 60300232 03 01

Chain of Custody Number (1): 21-01-2004-01

LIMS Number:

Facility/Base I.D.: Holloman

Project Name / Site Name: Drone Crash Site

Client Name: USACE

Collected by: S. Chesters

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	SEE Attachment								Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
01	F4WSM-DP03-0-3	Drone Crash	21012004	1440	0 - 3	N	01	SO												210120041	1
02	F4WSM-DP03-3-6			1447	3 - 6																
03	F4WSM-DP04-0-3			1310	0 - 3																
04	F4WSM-DP04-3-6			1315	3 - 6																
RSC	~~F4WSM-DP04-03~~				-																
05	F4WSM-DP06-03			1515	0 - 3																
06	F4WSM-DP06-3-6			1520	3 - 6																
					-																
					-																
					-																
					-																

RUSH

COMMENTS: FAX Results to (505) 679-2148
FED EX # 8426 0329 5076

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. R. Sam Chest	21JAN04	1600	1.		
2.			2. [signature]	1-22-03	900
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: _____ Shipped No.: _____
Method of Shipment: _____ Airbill Number: _____
Analytical Lab: _____ Delivery Location: _____
Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)
2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc.), SQ = Soil Blanks
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control)

2-0°C

DISTRIBUTION: WHITE COPY - Project File YELLOW COPY - Lab Copy PINK COPY - Working File

Attachment to COC _____

Analyze per SW-846

Parameter	Method
TPH	(8015) Carbon Chain
VOC's	8260
SVOC's	8270

8 RCRA Metals

ELAB OF TN COOLER RECEIPT FORM

LIMS Number 0401134 COC ID(s): 21-01-2004-01

Client BHATE Project Holloman

Sample Custodian Anthony Russo Today's Date 1-22-04

Date/Time Samples Received 1/22/04 09:00
Airbill Number Federal Express
Cooler Opened: Date 1/22/04

Chain of custody seal intact?	Yes	No
Chain of custody provided?	Yes	No
Sample labels present?	Yes	No
Bottle labels correspond w/COC	Yes	No

Number of Custody Seals on Cooler(s): 2 Seal Date(s): 1/21/04

Type of coolant used ICE

Coolant condition : Melted _____ Partially melted/frozen ✓
Frozen _____

# of Coolers 1 Temp. of Coolers 2.0°C

Condition of Bottles in Shipment: Broken Leaking Intact Missing

If broken or leaking list sample ID#s and bottle types affected:

Comments:

Batching Information

SDG No.: 0401136
Contract: Bhate

Batch Number: ICP012204C – ICP Metals

PBS012204C	PBS012204C	MB	SOIL
LCSS012204C	LCSS012204C	LCS	SOIL
0401136-01	F4WSM-DP03-0-3	SAM	SOIL
0401136-02	F4WSM-DP03-3-6	SAM	SOIL
0401136-03	F4WSM-DP04-0-3	SAM	SOIL
0401136-04	F4WSM-DP04-3-6	SAM	SOIL
0401136-05	F4WSM-DP06-0-3	SAM	SOIL
0401136-06	F4WSM-DP06-3-6	SAM	SOIL
0401136-06S	F4WSM-DP06-3-6S	MS	SOIL
0401136-06SD	F4WSM-DP06-3-6SD	MSD	SOIL

Batch Number: HG012304 – Mercury

LCSS012304	LCSS012304	LCS	SOIL
PBS012304	PBS012304	MB	SOIL
0401136-01	F4WSM-DP03-0-3	SAM	SOIL
0401136-02	F4WSM-DP03-3-6	SAM	SOIL
0401136-03	F4WSM-DP04-0-3	SAM	SOIL
0401136-04	F4WSM-DP04-3-6	SAM	SOIL
0401136-05	F4WSM-DP06-0-3	SAM	SOIL
0401136-06	F4WSM-DP06-3-6	SAM	SOIL
0401136-06S	F4WSM-DP06-3-6S	MS	SOIL
0401136-06SD	F4WSM-DP06-3-6SD	MSD	SOIL

USEPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

SOW No.: ILM04.2

EPA Sample No.	Lab Sample ID.
F4WSM-DP03-0-3	0401136-01
F4WSM-DP03-3-6	0401136-02
F4WSM-DP04-0-3	0401136-03
F4WSM-DP04-3-6	0401136-04
F4WSM-DP06-0-3	0401136-05
F4WSM-DP06-3-6	0401136-06
F4WSM-DP06-3-6S	0401136-06S
F4WSM-DP06-3-6SD	0401136-06SD

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: D. Rick Davis

Date: _____ Title: Vice-President

USEPA - CLP
-1-
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

F4WSM-DP03-0-3

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

Matrix (soil/water): SOIL Lab Sample ID: 0401136-01

Level (low/med): LOW Date Received: 1/22/04

% Solids: 79

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

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.3	U		P
7440-39-3	Barium	22.2	B		P
7440-43-9	Cadmium	0.36	B		P
7440-47-3	Chromium	16.1			P
7439-92-1	Lead	15.7			P
7439-97-6	Mercury	0.040	U		AV
7782-49-2	Selenium	1.3	U		P
7440-22-4	Silver	0.25	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Form I - IN

USEPA - CLP
-1-
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

F4WSM-DP03-3-6

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

Matrix (soil/water): SOIL Lab Sample ID: 0401136-02

Level (low/med): LOW Date Received: 1/22/04

% Solids: 76

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

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.3	U		P
7440-39-3	Barium	19.4	B		P
7440-43-9	Cadmium	0.27	U		P
7440-47-3	Chromium	1.3	U		P
7439-92-1	Lead	2.4			P
7439-97-6	Mercury	0.037	U		AV
7782-49-2	Selenium	1.3	U		P
7440-22-4	Silver	0.27	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

F4WSM-DP04-0-3

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

Matrix (soil/water): SOIL Lab Sample ID: 0401136-03

Level (low/med): LOW Date Received: 1/22/04

% Solids: 78

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

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.3	U		P
7440-39-3	Barium	29.7	B		P
7440-43-9	Cadmium	0.61	B		P
7440-47-3	Chromium	1.6	B		P
7439-92-1	Lead	10.4			P
7439-97-6	Mercury	0.041	U		AV
7782-49-2	Selenium	1.3	U		P
7440-22-4	Silver	0.25	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP
-1-
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

F4WSM-DP04-3-6

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

Matrix (soil/water): SOIL Lab Sample ID: 0401136-04

Level (low/med): LOW Date Received: 1/22/04

% Solids: 77

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

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.2	U		P
7440-39-3	Barium	18.4	B		P
7440-43-9	Cadmium	0.45	B		P
7440-47-3	Chromium	1.3	B		P
7439-92-1	Lead	6.1			P
7439-97-6	Mercury	0.043	U		AV
7782-49-2	Selenium	1.2	U		P
7440-22-4	Silver	0.25	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP
-1-
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

F4WSM-DP06-0-3

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

Matrix (soil/water): SOIL Lab Sample ID: 0401136-05

Level (low/med): LOW Date Received: 1/22/04

% Solids: 76

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

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.2	U		P
7440-39-3	Barium	31.5	B		P
7440-43-9	Cadmium	0.25	U		P
7440-47-3	Chromium	1.2	U		P
7439-92-1	Lead	0.74	U		P
7439-97-6	Mercury	0.042	U		AV
7782-49-2	Selenium	1.2	U		P
7440-22-4	Silver	0.25	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

F4WSM-DP06-3-6

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

Matrix (soil/water): SOIL Lab Sample ID: 0401136-06

Level (low/med): LOW Date Received: 1/22/04

% Solids: 77

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

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.3	U		P
7440-39-3	Barium	30.3	B		P
7440-43-9	Cadmium	0.26	U		P
7440-47-3	Chromium	1.5	B		P
7439-92-1	Lead	0.78	U		P
7439-97-6	Mercury	0.041	U		AV
7782-49-2	Selenium	1.3	U		P
7440-22-4	Silver	0.26	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

Form I - IN

USEPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

Initial Calibration Source: Accutrace,CPI,Solutions Plus

Continuing Calibration Source: CPI, Solutions Plus, Ultra

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic	1000.0	1055.08	105.5	1000.0	1043.36	104.3	1047.16	104.7	P
Barium	1000.0	969.81	97.0	1000.0	975.36	97.5	982.53	98.3	P
Cadmium	1000.0	1024.80	102.5	1000.0	1043.39	104.3	1037.88	103.8	P
Chromium	1000.0	982.13	98.2	1000.0	1003.13	100.3	1001.78	100.2	P
Lead	1000.0	1008.90	100.9	1000.0	1017.16	101.7	1010.87	101.1	P
Mercury	0.4	0.40	100.0	0.4	0.39	97.5	0.38	95.0	AV
Selenium	1000.0	1035.09	103.5	1000.0	1042.65	104.3	1043.46	104.3	P
Silver	500.0	466.39	93.3	500.0	467.15	93.4	467.25	93.4	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

USEPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

Initial Calibration Source: Accutrace,CPI,Solutions Plus

Continuing Calibration Source: CPI, Solutions Plus, Ultra

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				1000.0	1046.44	104.6	1060.19	106.0	P
Barium				1000.0	971.89	97.2	984.96	98.5	P
Cadmium				1000.0	1035.10	103.5	1046.30	104.6	P
Chromium				1000.0	996.81	99.7	1008.39	100.8	P
Lead				1000.0	1008.66	100.9	1015.29	101.5	P
Selenium				1000.0	1036.54	103.7	1048.16	104.8	P
Silver				500.0	463.27	92.7	467.61	93.5	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

USEPA - CLP

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

AA CRDL Standard Source: _____

ICP CRDL Standard Source: Spex

Concentration Units: ug/L

Analyte	True	Found	%R	CRDL Standard for ICP Initial True	Initial Found	Initial %R	Final Found	Final %R
Arsenic				20.0	21.06	105.3	19.12	95.6
Barium								
Cadmium				10.0	11.20	112.0	10.08	100.8
Chromium				20.0	21.09	105.4	19.42	97.1
Lead				6.0	6.82	113.7	5.45	90.8
Selenium				10.0	12.08	120.8	11.06	110.6
Silver				20.0	18.83	94.2	18.46	92.3

Control Limits: no limits have been established by EPA at this time

USEPA - CLP

3

BLANKS

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	5.0	U	5.0	U	5.0	U	5.0	U	1.000	U	P
Barium	5.0	U	5.0	U	5.0	U	5.0	U	1.000	U	P
Cadmium	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P
Chromium	5.0	U	5.0	U	5.0	U	5.0	U	1.000	U	P
Lead	3.0	U	3.0	U	3.0	U	3.0	U	0.600	U	P
Mercury	0.20	U	0.20	U	0.20	U			0.033	U	AV
Selenium	5.0	U	5.0	U	5.0	U	5.0	U	1.000	U	P
Silver	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P

USEPA - CLP

3

BLANKS

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			5.0	U							P
Barium			5.0	U							P
Cadmium			1.0	U							P
Chromium			5.0	U							P
Lead			3.0	U							P
Selenium			5.0	U							P
Silver			1.0	U							P

USEPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

ICP ID Number TJA61E TRACE ICP ICS Source: Spex, CPI

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic	0	200	3	98.3	98.3	4	195.4	97.7
Barium	0	0	2	486.1		2	1.6	
Cadmium	0	100	2	891.9	89.2	1	88.5	88.5
Chromium	0	200	1	452.3	90.5	1	180.1	90.0
Lead	0	60	1	46.1	92.2	2	56.1	93.5
Selenium	0	100	-2	43.4	86.8	-9	88.6	88.6
Silver	0	200	0	190.9	95.4	0	188.0	94.0

USEPA - CLP

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

F4WSM-DP06-3-6S

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 77.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	73.3879		1.2987	U	66.26	110.8		P
Barium	75 - 125	547.3676		30.2572	B	530.08	97.6		P
Cadmium	75 - 125	32.8013		0.2597	U	33.13	99.0		P
Chromium	75 - 125	52.2650		1.5459	B	53.01	95.7		P
Lead	75 - 125	78.6115		0.7792	U	66.26	118.6		P
Mercury	75 - 125	0.4085		0.0406	U	0.41	99.6		AV
Selenium	75 - 125	70.3104		1.2987	U	66.26	106.1		P
Silver	75 - 125	65.0333		0.2597	U	66.26	98.1		P

Comments:

USEPA - CLP

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

F4WSM-DP06-3-6SD

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 77.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	70.8302		1.2987	U	66.26	106.9		P
Barium	75 - 125	540.8062		30.2572	B	530.08	96.3		P
Cadmium	75 - 125	32.0569		0.2597	U	33.13	96.8		P
Chromium	75 - 125	51.8976		1.5459	B	53.01	95.0		P
Lead	75 - 125	67.1990		0.7792	U	66.26	101.4		P
Mercury	75 - 125	0.4016		0.0406	U	0.41	98.0		AV
Selenium	75 - 125	69.5218		1.2987	U	66.26	104.9		P
Silver	75 - 125	64.3749		0.2597	U	66.26	97.2		P

Comments:

USEPA - CLP

6

DUPLICATES

SAMPLE NO.

F4WSM-DP06-3-6SD

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 77.0 % Solids for Duplicate: 77.0

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic		73.3879		70.8302		3.5		P
Barium		547.3675		540.8062		1.2		P
Cadmium		32.8013		32.0569		2.3		P
Chromium		52.2650		51.8976		0.7		P
Lead		78.6115		67.1990		15.7		P
Mercury		0.4085		0.4016		1.7		AV
Selenium		70.3104		69.5218		1.1		P
Silver		65.0333		64.3749		1.0		P

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

Solid LCS Source: High Purity, Environmental Res.

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Aqueous (ug/L) Found	Aqueous (ug/L) %R	Solid (mg/kg) True	Solid (mg/kg) Found	C	Limits		%R
Arsenic				50.0	52.6		40.0	60.0	105.2
Barium				400.0	387.5		320.0	480.0	96.9
Cadmium				25.0	25.9		20.0	30.0	103.6
Chromium				40.0	39.4		32.0	48.0	98.5
Lead				50.0	50.8		40.0	60.0	101.6
Mercury				0.33	0.33		0.3	0.4	100.0
Selenium				50.0	49.5		40.0	60.0	99.0
Silver				50.0	47.0		40.0	60.0	94.0

USEPA - CLP

9
ICP SERIAL DILUTIONS

SAMPLE NO.

F4WSM-DP06-3-6L

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	4.05		25.00	U	100.0		P
Barium	116.49		118.18	B	1.5		P
Cadmium	1.00	U	5.00	U			P
Chromium	5.95		25.00	U	100.0		P
Lead	2.77		15.00	U	100.0		P
Selenium	5.00	U	25.00	U			P
Silver	1.00	U	5.00	U			P

USEPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

ICP ID Number: TJA61E TRACE ICP Date: 3/10/03

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	MDL (ug/L)	M
Arsenic	189.04		10.0	5.0	P
Barium	493.41		200.0	5.0	P
Cadmium	226.50		5.0	1.0	P
Chromium	267.72		10.0	5.0	P
Lead	220.35		3.0	3.0	P
Selenium	196.02		5.0	5.0	P
Silver	328.07		10.0	1.0	P

Comments: _____

USEPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

ICP ID Number: _____ Date: 5/8/03

Flame AA ID Number: PE CVAA

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	MDL (ug/L)	M
Mercury	253.70		0.2	0.20	AV

Comments:

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

ICP ID Number: TJA61E TRACE ICP Date: 10/1/03

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Ba
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000250	0.0000000	0.0000000
Arsenic	189.04	0.0000110	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000040	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.68	0.0000000	0.0000000	0.0000290	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0001020	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000030	0.0000000	-0.0014600
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0001910	0.0000000
Lead	220.35	0.0004910	0.0000000	0.0001820	0.0000000	0.0000000
Lead	220.35	-0.0001500	0.0000000	0.0000490	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	279.08	0.0000000	0.0000000	0.0000080	0.0257120	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000030	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	-0.0000500	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	-0.0003800	0.0000000	0.0000000
Silver	328.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	331.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	-0.0000900	0.0000000	0.0000000
Tin	189.99	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.94	0.0000000	0.0018200	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000240	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	-0.0000700	0.0383880	0.0000000

Comments: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

ICP ID Number: TJA61E TRACE ICP Date: 10/1/03

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cd	Co	Cr	Cu	Mn
Aluminum	308.22	0.0000000	-0.0160100	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0042080	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0001610	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.68	0.0000000	0.0005830	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	-0.0000900	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0001310
Cobalt	228.62	-0.0001900	0.0000000	-0.0000200	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0865310	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000160	-0.000290	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000710	0.0000000	0.0000370
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	-0.0010200	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0002070	-0.0000400	0.0000000	0.0006510
Selenium	196.02	0.0000000	-0.0009400	-0.0000600	0.0000000	0.0004600
Silver	328.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000190
Sodium	331.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0032440	0.0002970	0.0000000	0.0009540
Tin	189.99	0.0000000	0.0000000	0.0000000	0.0000000	-0.0001100
Titanium	334.94	0.0000000	0.0000000	0.0002110	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0002090	0.0000000	0.0000000

Comments: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

ICP ID Number: TJA61E TRACE ICP Date: 10/1/03

Analyte	Wave-length (nm)	Interelement Correction Factors for: Mo	Ni	Pb	Sn	Ti
Aluminum	308.22	0.0076220	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	-0.0039900	0.0000000	0.0000000	0.0003440	0.0000870
Arsenic	189.04	0.0003500	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	-0.0024300
Boron	249.68	0.0000000	0.0000000	0.0000000	0.0000000	-0.0002400
Cadmium	226.50	-0.0000700	-0.0000600	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	-0.0003400	0.0000000	0.0000000	0.0000000	0.0000790
Cobalt	228.62	0.0000290	0.0002760	0.0000000	-0.000010	0.0020230
Copper	324.75	0.0001350	0.0000000	0.0000000	0.0000000	-0.0001600
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	-0.0002100	0.0000000	-0.0008700	0.0000000	0.0000260
Lead	220.35	-0.0010500	0.0000000	0.0000000	0.0000000	-0.0008800
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	279.08	0.0000140	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.22	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000400
Sodium	331.23	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003100
Thallium	190.86	-0.0018300	0.0000000	0.0000000	0.0000000	0.0003380
Tin	189.99	0.0000000	-0.0000700	0.0000000	0.0000000	0.0002380
Titanium	334.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0005000	0.0000000	0.0000000	0.0000000	0.0006130
Zinc	206.20	0.0003690	0.0000670	0.0000000	0.0000000	0.0000770

Comments: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

ICP ID Number: TJA61E TRACE ICP Date: 10/1/03

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	308.22	0.0000000	0.0003550	0.0000000		
Antimony	206.84	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	493.41	0.0000000	0.0000000	0.0000000		
Beryllium	313.04	0.0000000	0.0006400	0.0000000		
Boron	249.68	0.0000000	-0.0000600	0.0000000		
Cadmium	226.50	0.0000000	0.0000000	0.0000000		
Calcium	317.93	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	-0.0000500	0.0000000		
Cobalt	228.62	0.0000000	0.0000000	0.0000000		
Copper	324.75	0.0000000	-0.0001000	0.0000000		
Iron	271.44	0.0000000	0.0077640	0.0000000		
Lead	220.35	0.0000000	-0.0000200	0.0000000		
Lead	220.35	0.0000000	-0.0001100	0.0000000		
Lead	220.35	0.0000000	0.0000000	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	279.08	0.0000000	0.0000000	0.0000000		
Molybdenum	202.03	0.0000000	0.0000000	0.0000000		
Nickel	231.60	0.0001020	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.02	0.0000000	0.0000000	0.0000000		
Selenium	196.02	0.0000000	0.0001170	0.0000000		
Selenium	196.02	0.0000000	-0.0000900	0.0000000		
Silver	328.22	0.0000000	0.0000350	0.0000000		
Sodium	331.23	0.0000000	0.0000000	0.0000220		
Thallium	190.86	0.0000000	0.0018240	0.0000000		
Tin	189.99	0.0000000	0.0000000	0.0000000		
Titanium	334.94	0.0000000	0.0000220	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments: _____

USEPA - CLP

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ICP LINEAR RANGES (QUARTERLY)

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

ICP ID Number: TJA61E TRACE ICP Date: 6/10/03

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Arsenic	15.00	10000.0	P
Barium	15.00	5000.0	P
Cadmium	15.00	10000.0	P
Chromium	15.00	50000.0	P
Lead	15.00	25000.0	P
Selenium	15.00	10000.0	P
Silver	15.00	2000.0	P

ents: _____

USEPA - CLP

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PREPARATION LOG

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

Method CV

EPA Sample No.	Preparation Date	Initial Weight (g)	Volume (mL)
LCSS012304	1/23/04	0.30	50.0
PBS012304	1/23/04	0.30	50.0
F4WSM-DP03-0-3	1/23/04	0.32	50.0
F4WSM-DP03-3-6	1/23/04	0.36	50.0
F4WSM-DP04-0-3	1/23/04	0.31	50.0
F4WSM-DP04-3-6	1/23/04	0.30	50.0
F4WSM-DP06-0-3	1/23/04	0.31	50.0
F4WSM-DP06-3-6	1/23/04	0.32	50.0
F4WSM-DP06-3-6S	1/23/04	0.32	50.0
F4WSM-DP06-3-6SD	1/23/04	0.32	50.0

USEPA - CLP

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PREPARATION LOG

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

Method P

EPA Sample No.	Preparation Date	Initial Weight (g)	Volume (mL)
PBS012204C	1/22/04	1.00	200.0
LCSS012204C	1/22/04	1.04	200.0
F4WSM-DP03-0-3	1/22/04	1.00	200.0
F4WSM-DP03-3-6	1/22/04	0.99	200.0
F4WSM-DP04-0-3	1/22/04	1.02	200.0
F4WSM-DP04-3-6	1/22/04	1.05	200.0
F4WSM-DP06-0-3	1/22/04	1.06	200.0
F4WSM-DP06-3-6	1/22/04	1.00	200.0
F4WSM-DP06-3-6S	1/22/04	0.98	200.0
F4WSM-DP06-3-6SD	1/22/04	0.98	200.0

USEPA - CLP

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ANALYSIS RUN LOG

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

Instrument ID Number: TJA61E TRACE ICP Method: P

Start Date: 1/23/04 End Date: 1/23/04

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1035				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1041																									
S	1.00	1046					X															X					
ZZZZZZ	1.00	1051																									
ZZZZZZ	1.00	1054																									
S	1.00	1100				X			X		X				X						X						
ZZZZZZ	1.00	1113																									
ZZZZZZ	1.00	1121																									
ZZZZZZ	1.00	1216																									
ZZZZZZ	1.00	1222																									
ICV1	1.00	1237				X	X		X		X				X						X	X					
ICB1	1.00	1247				X	X		X		X				X						X	X					
[illegible]ZZ	1.00	1254																									
[illegible]ZZZ	1.00	1302																									
ZZZZZZ	1.00	1308																									
ZZZZZZ	1.00	1314																									
ZZZZZZ	1.00	1323																									
CRDL1	1.00	1329				X	X		X		X				X						X	X					
ICSA-0	1.00	1346				X	X		X		X				X						X	X					
ICSAB-0	1.00	1352				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1403																									
ZZZZZZ	1.00	1409																									
CCV1	1.00	1420				X	X		X		X				X						X	X					
CCB1	1.00	1430				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1436																									
ZZZZZZ	1.00	1443																									
ZZZZZZ	1.00	1449																									
ZZZZZZ	1.00	1455																									
ZZZZZZ	1.00	1501																									
PBS012204C	1.00	1507				X	X		X		X				X						X	X					
LCSS012204C	1.00	1513				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1522																									
ZZZZZZ	1.00	1528																									
F4WSM-DP03-0-3	1.00	1536				X	X		X		X				X						X	X					
CCV2	1.00	1558				X	X		X		X				X						X	X					
[illegible]	1.00	1609				X	X		X		X				X						X	X					
F4WSM-DP03-3-6	1.00	1615				X	X		X		X				X						X	X					
F4WSM-DP04-0-3	1.00	1621				X	X		X		X				X						X	X					

Form XIV - IN

USEPA - CLP

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ANALYSIS RUN LOG

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

Instrument ID Number: TJA61E TRACE ICP Method: P

Start Date: 1/23/04 End Date: 1/23/04

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
F4WSM-DP04-3-6	1.00	1627				X	X		X		X				X						X	X					
F4WSM-DP06-0-3	1.00	1633				X	X		X		X				X						X	X					
F4WSM-DP06-3-6	1.00	1639				X	X		X		X				X						X	X					
F4WSM-DP06-3-6S	1.00	1645				X	X		X		X				X						X	X					
F4WSM-DP06-3-6SD	1.00	1652				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1658																									
F4WSM-DP06-3-6L	5.00	1706				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1712																									
CCV3	1.00	1723				X	X		X		X				X						X	X					
CCB3	1.00	1734				X	X		X		X				X						X	X					
CRDL2	1.00	1740				X	X		X		X				X						X	X					
ICSA-1	1.00	1746				X	X		X		X				X						X	X					
ICSAB-1	1.00	1752				X	X		X		X				X						X	X					
ZZZZZZ	1.00	1803																									
ZZZZZZ	1.00	1812																									
ZZZZZZ	1.00	1818																									
ZZZZZZ	1.00	1824																									
ZZZZZZ	1.00	1832																									
ZZZZZZ	1.00	1839																									
ZZZZZZ	1.00	1845																									
CCV4	1.00	1855				X	X		X		X				X						X	X					
CCB4	1.00	1906				X	X		X		X				X						X	X					

USEPA - CLP

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ANALYSIS RUN LOG

Lab Name: ELAB of Tennessee, LLC Contract: Bhate

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 0401136

Instrument ID Number: PE CVAA Method: AV

Start Date: 1/26/04 End Date: 1/26/04

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	0842																X									
S0.020	1.00	0843																X									
S0.050	1.00	0844																X									
S0.10	1.00	0845																X									
S0.20	1.00	0846																X									
S0.40	1.00	0848																X									
S0.60	1.00	0849																X									
S1.0	1.00	0851																X									
ICV1	1.00	0852																X									
ICB1	1.00	0853																X									
LCSS012304	1.00	0854																X									
PBS012304	1.00	0856																X									
ZZZZZZ	1.00	0857																									
ZZZZZZ	1.00	0859																									
ZZZZZZ	1.00	0900																									
ZZZZZZ	1.00	0901																									
ZZZZZZ	1.00	0903																									
ZZZZZZ	1.00	0904																									
ZZZZZZ	1.00	0906																									
ZZZZZZ	1.00	0907																									
CCV1	1.00	0908																X									
CCB1	1.00	0910																X									
ZZZZZZ	1.00	0911																									
ZZZZZZ	1.00	0913																									
F4WSM-DP03-0-3	1.00	0914																X									
F4WSM-DP03-3-6	1.00	0915																X									
F4WSM-DP04-0-3	1.00	0916																X									
F4WSM-DP04-3-6	1.00	0917																X									
F4WSM-DP06-0-3	1.00	0919																X									
F4WSM-DP06-3-6	1.00	0920																X									
F4WSM-DP06-3-6S	1.00	0921																X									
F4WSM-DP06-3-6SD	1.00	0922																X									
CCV2	1.00	0923																X									
CCB2	1.00	0925																X									

ICP Digestion Log

Date	Analyst	Sample #	Client	method	initial	Final	matrix	Beaker	Transfer Date
1-22-04	RB	1118-02 [MS]		3005	50 ml	50 ml	H_2O	Hot Block A	RB 1-22-04
		1118-02 [MSD]							
		1137-01							
		1113-01	[redacted]						
		1114-01	[redacted]		5 ml				
1-22-04	RB	PBS 012204B		3050	—	200 ml	soil	Hot Block B	
		LCSS 012204B	IS1030038		1.04g				
		1052-08			1.00g				
		1052-09			1.01g				
		1052-10			1.01g				
		1052-11			1.02g				
		1052-12			1.08g				
		1052-13			1.00g				
		1052-14			1.03g				
		1052-15			1.00g				
		1052-16			1.04g				
		1052-17			1.01g				
		1052-18			1.03g				
		1052-19			1.04g				
		1052-20			1.00g				
		1052-21			1.00g				
		1053-01			1.06g				
		1053-02			1.04g				
		1053-03			1.03g				
		1053-04			1.05g				
		1053-05			1.00g				
		1053-06			0.98g				
		1053-06 [MS]			1.08g				
		1053-06 [MSD]			0.98g				
1-22-04	RB	PBW 012204B		3050	—	200 ml	soil	Hot Block B	RB 1-23-04
		LCSS 012204B	IS1030038		1.04g				
		1044-14 [MS]			1.00g				

ICP Digestion Log

Analyst	Sample #	Client	method	initial	Final	matrix	Beaker #	Transfer Date
RB	1044-14 [MSD]		3050	1.05g	200ml	50:1	Hot Block B	RB 1-23-04
	1136-01	Bhate		1.00g				
	1136-02			0.99g				
	1136-03			1.02g				
	1136-04			1.05g				
	1136-05			1.06g				
	1136-06			1.00g				
	1136-06 [MS]			0.98g				
	1136-06 [MSD]			0.98g				

Hg Digestion Log

Sample	Matrix	Client	Field ID	wt. (g)	vol (mL)	Temp (°C)	Temp Corr	Block	Analysis/ Transfer
1116-05	H_2O	[redacted]	MW-5		30	93	+0.5	H	01-23-04 KBJ
-06			SB-SW						
-08			SB-NW						
1118-01			CA4001 (10X)	3.0	30				
-02			CB4001		30				
-02MS			ISA040020						
-02MSD									
1125-01			PW10						
-02			PW1XD						
-02MS			ISA040020						
-02MSD									
1135-01		ILR	MW-2						
-02			MW-4						
1137-01			CE4001						

Digestion Date/By: 01/22/04 KBJ
Time on: 11:50
Time off: 13:50

HNO_3 lot # 031695
H_2SO_4 lot # 43095
$KMnO_4$: IRLAHg030175
$K_2S_2O_8$: IRLAHg030182

0.0	H_2O	QC	DI H_2O		50	94	+0.5	H	01-26-04 KBJ
0.02			ISA030233						
0.05									
0.1									
0.2									
0.4									
0.6									
1.0									
1CV(0.4)			ISA040020						

00040

Hg Digestion Log

Sample	Matrix	Client	Field ID	wt. (g)	vol (mL)	Temp (°C)	Temp Cpu	Block	[illegible]
LCSS012304	Soil	QC	ISA040020	0.30	50	94	+0.5	H	01-26-0 KBG
PBS012304		↓	DI H_2O	0.30					
1066-21			W01030	0.30					
-22			W01071	0.31					
-23			W01072 ~~W01073~~	0.30					
-24			W01073 ~~W01103~~	0.35					
-25			W01103 ~~W01104~~	0.35					
-26			W01104	0.32					
-26MS			ISA040020	0.30					
-26MSD			↓	0.30					
-27			W01105	0.34					
-28		↓	W01106	0.37					
1136-01		Bhate	F4WSM-BP03-0-3	0.32					
-02			F4WSM-DP03-0-6	0.36					
-03			F4WSM-DP04-0-3	0.31					
-04			F4WSM-DP04-0-6	0.30					
-05			F4WSM-DP06-0-3	0.31					
-06			F4WSM-DP06-0-6	0.32					
-06MS			ISA040020	0.32					
-06MSD			↓	0.32					

Digestion Date/By: 01/23/04 KBG
Time on: 16:20
Time off: 17:20

HNO_3 lot# 031830 (Fisher)
HCl lot # Y39038 (JT Baker)
$KMnO_4$: IRLAHg030175

ELAB of TENNESSEE, LLC
LABORATORY SAMPLE CUSTODY FORM
SOIL REFRIGERATOR
(all soils are assumed to be USDA regulated)

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
1052-1-21 1053-1-16 1066-1-28	9:30 1/16/04 MLK	12:45 1/16/04 MLK		Hg
1099 1-36	[illegible]	8:15 1/16/04 MLK		
1095-tena (ovr)	13:20 JHC 1/17/04	—	—	VOA
1099-26, 28-29	07:20 1/19/04 BTD	11:00 ug 1-19-04		PCB
1099-1-4,6,7,18	08:30 1/19/04 BTD	↓ ↓ ↓		PCB
1094-1-21	8:55 1/19/4 RDM	11:50 JHC 1/19/04	—	VOA
1099-05,08-36	9:10 01/19/04 KCS	10:15 01/19/04 KCS		%S TOC
1006-01	9:15 1/19/04 TAT			T-Phos.
1099-01-04,06,07,8,26, 1094-01-21 28,29	11:00 01/19/04 KCS	11:50 01/19/04 KCS		%S
1095-01-31 1096-01-34	13:05 01/19/04 KCS	15:00 01/19/04 KCS		%S
1052-8-21 1053-1-16 1066-1-10	2:52 01/19/04 MLK	3:56 01/19/04 MLK		Metals
1094-1-21 1097-1-10 1067-1-4	3:15 1/19/04 MLK	6:20 1/19/04 MLK		DNA/EXP
1084	08:27 1-20-04 RB	9:08 1-20-04 RB		Metals
1094-09	8:55 1/20/04 BTD	9:07 1/20/04 BTD		BNA/PCB
1084-01→03	14:10 1/20/04 KBJ	14:15 1/20/04 KBJ		Hg
1103-01→05	JHC 1/21/04 11:00	13:50 JHC 1/21/04	—	JHC
1052-11→21 1053-01→09	15:00 1/21/03 KBJ	15:30 KBJ 1/21/04		Cr+6/metals
1105-1-5	7:10 1-22-04 ug	11:15 1-22-04 ug		BNA/PCB
1044-14 1136-01→06	08:24 1-22-04 RB	10:22 1-22-04 RB		Metals
1111-01→05 1115-01→07	17:24 1-22-04 KBJ	19:30 1-22-04 KBJ		TCLP

ELAB of TENNESSEE, LLC
LABORATORY SAMPLE CUSTODY FORM
SOIL REFRIGERATOR
(all soils are assumed to be USDA regulated)

Sample Log # (s)	Time/Date/Initials Removed	Time/Date/Initials Returned (Note if all Sample Used)	Notes/ Comments	Task Performed
1140-1-5 1145-2-7	1030 1-23-04 SD	305 1-23-04		BNA PCB DRO
1136-01→06	15:10 1-23-04 KAG	16:50 1-23-04 KAG		Hg, % Solids
1103-01→05 1140-01→05 1145-02→07	16:25 1-23-04 KAO	↓ ↓ ↓		% Solids
1053-10→16 1066-01→13	10:30 1-26-04 KAO	11:00 1-26-04 KAO		Cr+6
1145-02-07, 1147-01-12; 1154-10;	12:55 JTC 1/26/04	16:31 JTC 1/26/04	—	VOA
1147-04	08:25 1/27/04 BTD	9:25 1/27/04 BTD		PCB
1066	09:28 1-27-04 RB	09:55 1-27-04 RB		Metals
4M57-01-06	1.27.04 10:47	1.27.04 11:50		PROIBAT
1145-01 1148-01,02 1158-01,02	11:45 1-27-04 KAO			TCLP
1157-1-5	13:10 1/27/04 RDB	JTC 1/27/04 15:45		VOC
1147-01→12 1154-10 1157-01→05 1164-01→09	14:50 1/27/04 KAO	15:20 1/27/04 KAO		% Solids
1164-01-09	Straight to extraction from login 12:00 1/27/04	15:05 1/27/04 BTD		PCB
1094	15:31 1-27-04 RB	10:04 1-27-04 RB		Metals

APPENDIX G2

FIRST EXCAVATION CONFIRMATION LABORATORY FORM I DATA

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 FAX 714/538-1209

CLIENT BHATE (10177)
ATTN: Jerry Pelfrey
1111 10th. Street
480
Alamorgordo, NM 88310

LAB REQUEST 125900
REPORTED 03/17/2004
RECEIVED 03/10/2004

PROJECT Holmn - Drone Crash

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
504421	F4WSM-CS01-2
504422	F4WSM-CS02-2
504423	F4WSM-CS03-2
504424	F4WSM-CS04-2
504425	F4WSM-CS05-2
504426	F4WSM-CS06-2
504427	F4WSM-CS07-2
504428	F4WSM-CS08-2
504429	F4WSM-CS09-2
504430	F4WSM-CS10-2
504431	F4WSM-CS11-2
504432	F4WSM-CS12-2
504433	F4WSM-CS13-3
504434	F4WSM-CS14-3
504435	Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 504421 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS01-2
Date Sampled: 03/09/2004
Time Sampled: 10:55
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8015 Carbon Chain I						
C06 - C10	48	1	3	mg/Kg	03/11/04	AF
C10 - C22	92	1	3	mg/Kg	03/11/04	AF
C22 - C36	ND	1	5	mg/Kg	03/11/04	AF
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	03/11/04	AM
1,1,1-Trichloroethane	ND	1	5	ug/Kg	03/11/04	AM
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	03/11/04	AM
1,1,2-Trichloroethane	ND	1	5	ug/Kg	03/11/04	AM
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	03/11/04	AM
1,1-Dichloroethane	ND	1	5	ug/Kg	03/11/04	AM
1,1-Dichloroethene	ND	1	5	ug/Kg	03/11/04	AM
1,1-Dichloropropene	ND	1	5	ug/Kg	03/11/04	AM
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	03/11/04	AM
1,2,3-Trichloropropane	ND	1	5	ug/Kg	03/11/04	AM
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	03/11/04	AM
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	03/11/04	AM
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	03/11/04	AM
1,2-Dibromoethane	ND	1	5	ug/Kg	03/11/04	AM
1,2-Dichlorobenzene	ND	1	5	ug/Kg	03/11/04	AM
1,2-Dichloroethane	ND	1	5	ug/Kg	03/11/04	AM
1,2-Dichloropropane	ND	1	5	ug/Kg	03/11/04	AM
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	03/11/04	AM
1,3-Dichlorobenzene	ND	1	5	ug/Kg	03/11/04	AM
1,3-Dichloropropane	ND	1	5	ug/Kg	03/11/04	AM
1,4-Dichlorobenzene	ND	1	5	ug/Kg	03/11/04	AM
1-Chlorohexane	ND	1	5	ug/Kg	03/11/04	AM
2,2-Dichloropropane	ND	1	5	ug/Kg	03/11/04	AM
2-Butanone (MEK)	ND	1	100	ug/Kg	03/11/04	AM
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	03/11/04	AM
2-Chlorotoluene	ND	1	5	ug/Kg	03/11/04	AM
2-Hexanone	ND	1	5	ug/Kg	03/11/04	AM
4-Chlorotoluene	ND	1	5	ug/Kg	03/11/04	AM
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	03/11/04	AM
Acetone	ND	1	50	ug/Kg	03/11/04	AM
Acetonitrile	ND	1	5	ug/Kg	03/11/04	AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504421 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS01-2
Date Sampled: 03/09/2004
Time Sampled: 10:55
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Acrolein	ND	1	200	ug/Kg	03/11/04	AM
Acrylonitrile	ND	1	5	ug/Kg	03/11/04	AM
Allyl chloride	ND	1	5	ug/Kg	03/11/04	AM
Benzene	ND	1	5	ug/Kg	03/11/04	AM
Benzyl chloride	ND	1	5	ug/Kg	03/11/04	AM
Bromobenzene	ND	1	5	ug/Kg	03/11/04	AM
Bromochloromethane	ND	1	5	ug/Kg	03/11/04	AM
Bromodichloromethane	ND	1	5	ug/Kg	03/11/04	AM
Bromoform	ND	1	5	ug/Kg	03/11/04	AM
Bromomethane	ND	1	5	ug/Kg	03/11/04	AM
Carbon Disulfide	ND	1	5	ug/Kg	03/11/04	AM
Carbon tetrachloride	ND	1	5	ug/Kg	03/11/04	AM
Chlorobenzene	ND	1	5	ug/Kg	03/11/04	AM
Chloroethane	ND	1	5	ug/Kg	03/11/04	AM
Chloroform	ND	1	5	ug/Kg	03/11/04	AM
Chloromethane	ND	1	5	ug/Kg	03/11/04	AM
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	03/11/04	AM
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	03/11/04	AM
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/11/04	AM
Dibromochloromethane	ND	1	5	ug/Kg	03/11/04	AM
Dibromomethane	ND	1	5	ug/Kg	03/11/04	AM
Dichlorodifluoromethane	ND	1	5	ug/Kg	03/11/04	AM
Ethyl benzene	ND	1	5	ug/Kg	03/11/04	AM
Ethyl methacrylate	ND	1	5	ug/Kg	03/11/04	AM
Hexachlorobutadiene	ND	1	5	ug/Kg	03/11/04	AM
Iodomethane	ND	1	5	ug/Kg	03/11/04	AM
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	03/11/04	AM
Methacrylonitrile	ND	1	5	ug/Kg	03/11/04	AM
Methyl methacrylate	ND	1	5	ug/Kg	03/11/04	AM
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	03/11/04	AM
Methylene chloride	ND	1	5	ug/Kg	03/11/04	AM
n-Butylbenzene	ND	1	5	ug/Kg	03/11/04	AM
n-Propylbenzene	ND	1	5	ug/Kg	03/11/04	AM
Naphthalene	ND	1	5	ug/Kg	03/11/04	AM
p-Isopropyltoluene	ND	1	5	ug/Kg	03/11/04	AM
Pentachloroethane	ND	1	5	ug/Kg	03/11/04	AM
Propionitrile	ND	1	5	ug/Kg	03/11/04	AM
sec-Butylbenzene	ND	1	5	ug/Kg	03/11/04	AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504421 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS01-2
Date Sampled: 03/09/2004
Time Sampled: 10:55
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Styrene	ND	1	5	ug/Kg	03/11/04	AM
tert-Butylbenzene	ND	1	5	ug/Kg	03/11/04	AM
Tetrachloroethene	ND	1	5	ug/Kg	03/11/04	AM
Toluene	ND	1	5	ug/Kg	03/11/04	AM
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	03/11/04	AM
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	03/11/04	AM
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/11/04	AM
Trichloroethene	ND	1	5	ug/Kg	03/11/04	AM
Trichlorofluoromethane	ND	1	5	ug/Kg	03/11/04	AM
Vinyl acetate	ND	1	50	ug/Kg	03/11/04	AM
Vinyl chloride	ND	1	5	ug/Kg	03/11/04	AM
Xylenes, total	ND	1	5	ug/Kg	03/11/04	AM

Surrogates		Units	Control Limits
Surr1 - Dibromofluoromethane	90	%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	109	%	70 - 135
Surr3 - Toluene-d8	99	%	70 - 135
Surr4 - p-Bromofluorobenzene	98	%	70 - 135

8270C Acid/Base/Neutral Extractables

1,2,4-Trichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,2-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,3-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,4-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
2,4,5-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4,6-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dichlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dimethylphenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dinitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2,6-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2-Chloronaphthalene	ND	1	333	ug/Kg	03/14/04	DP
2-Chlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2-Methylnaphthalene	1880	1	333	ug/Kg	03/14/04	DP
2-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
2-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
2-Nitrophenol	ND	1	333	ug/Kg	03/14/04	DP
3,3-Dichlorobenzidine	ND	1	333	ug/Kg	03/14/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504421 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS01-2
Date Sampled: 03/09/2004
Time Sampled: 10:55
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
3-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
3-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4,6-Dinitro-2-methylphenol	ND	1	1665	ug/Kg	03/14/04	DP
4-Bromophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Chloro-3-methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Chloroaniline	ND	1	333	ug/Kg	03/14/04	DP
4-Chlorophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4-Nitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
Acenaphthene	ND	1	333	ug/Kg	03/14/04	DP
Acenaphthylene	ND	1	333	ug/Kg	03/14/04	DP
Anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzidine	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(b)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(g,h,i)perylene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(k)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzoic Acid	ND	1	333	ug/Kg	03/14/04	DP
Benzyl alcohol	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethoxy)methane	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethyl)ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroisopropyl) ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Ethylhexyl)phthalate	ND	1	333	ug/Kg	03/14/04	DP
Butylbenzylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Chrysene	ND	1	333	ug/Kg	03/14/04	DP
Di-n-butylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Di-n-octylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dibenz(a,h)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Dibenzofuran	ND	1	333	ug/Kg	03/14/04	DP
Diethylphthalate	3720	1	333	ug/Kg	03/14/04	DP
Dimethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Fluorene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobutadiene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorocyclopentadiene	ND	1	333	ug/Kg	03/14/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504421 **Client:** BHATE

Matrix: SOLID **Client Sample ID:** F4WSM-CS01-2

Date Sampled: 03/09/2004

Time Sampled: 10:55

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
Hexachloroethane	ND	1	333	ug/Kg	03/14/04	DP
Indeno(1,2,3-c,d)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Isophorone	ND	1	333	ug/Kg	03/14/04	DP
N-Nitroso-di-n-propylamine	ND	1	333	ug/Kg	03/14/04	DP
N-Nitrosodiphenylamine	ND	1	333	ug/Kg	03/14/04	DP
Naphthalene	400	1	333	ug/Kg	03/14/04	DP
Nitrobenzene	ND	1	333	ug/Kg	03/14/04	DP
Pentachlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
Phenanthrene	ND	1	333	ug/Kg	03/14/04	DP
Phenol	ND	1	333	ug/Kg	03/14/04	DP
Pyrene	ND	1	333	ug/Kg	03/14/04	DP

Surrogates		Units	Control Limits
2,4,6-Tribromophenol (sur)	82	%	17 - 122
2-Fluorobiphenyl (sur)	78	%	30 - 115
2-Fluorophenol (sur)	95	%	25 - 121
Nitrobenzene-d5 (sur)	86	%	23 - 120
Phenol-d5 (sur)	100	%	24 - 113
Terphenyl-d14 (sur)	92	%	18 - 137

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504422 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS02-2
Date Sampled: 03/09/2004
Time Sampled: 11:02
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8015 Carbon Chain I						
C06 - C10	6.0	1	3	mg/Kg	03/11/04	AF
C10 - C22	18	1	3	mg/Kg	03/11/04	AF
C22 - C36	ND	1	5	mg/Kg	03/11/04	AF
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1,1-Trichloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1,2-Trichloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1-Dichloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1-Dichloroethene	ND	1	5	ug/Kg	03/15/04	AM
1,1-Dichloropropene	ND	1	5	ug/Kg	03/15/04	AM
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1,2,3-Trichloropropane	ND	1	5	ug/Kg	03/15/04	AM
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dibromoethane	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dichloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dichloropropane	ND	1	5	ug/Kg	03/15/04	AM
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	03/15/04	AM
1,3-Dichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1,3-Dichloropropane	ND	1	5	ug/Kg	03/15/04	AM
1,4-Dichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1-Chlorohexane	ND	1	5	ug/Kg	03/15/04	AM
2,2-Dichloropropane	ND	1	5	ug/Kg	03/15/04	AM
2-Butanone (MEK)	ND	1	100	ug/Kg	03/15/04	AM
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	03/15/04	AM
2-Chlorotoluene	ND	1	5	ug/Kg	03/15/04	AM
2-Hexanone	ND	1	5	ug/Kg	03/15/04	AM
4-Chlorotoluene	ND	1	5	ug/Kg	03/15/04	AM
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	03/15/04	AM
Acetone	ND	1	50	ug/Kg	03/15/04	AM
Acetonitrile	ND	1	5	ug/Kg	03/15/04	AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504422 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS02-2
Date Sampled: 03/09/2004
Time Sampled: 11:02
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Acrolein	ND	1	200	ug/Kg	03/15/04	AM
Acrylonitrile	ND	1	5	ug/Kg	03/15/04	AM
Allyl chloride	ND	1	5	ug/Kg	03/15/04	AM
Benzene	ND	1	5	ug/Kg	03/15/04	AM
Benzyl chloride	ND	1	5	ug/Kg	03/15/04	AM
Bromobenzene	ND	1	5	ug/Kg	03/15/04	AM
Bromochloromethane	ND	1	5	ug/Kg	03/15/04	AM
Bromodichloromethane	ND	1	5	ug/Kg	03/15/04	AM
Bromoform	ND	1	5	ug/Kg	03/15/04	AM
Bromomethane	ND	1	5	ug/Kg	03/15/04	AM
Carbon Disulfide	ND	1	5	ug/Kg	03/15/04	AM
Carbon tetrachloride	ND	1	5	ug/Kg	03/15/04	AM
Chlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
Chloroethane	ND	1	5	ug/Kg	03/15/04	AM
Chloroform	ND	1	5	ug/Kg	03/15/04	AM
Chloromethane	ND	1	5	ug/Kg	03/15/04	AM
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	03/15/04	AM
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	03/15/04	AM
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/15/04	AM
Dibromochloromethane	ND	1	5	ug/Kg	03/15/04	AM
Dibromomethane	ND	1	5	ug/Kg	03/15/04	AM
Dichlorodifluoromethane	ND	1	5	ug/Kg	03/15/04	AM
Ethyl benzene	ND	1	5	ug/Kg	03/15/04	AM
Ethyl methacrylate	ND	1	5	ug/Kg	03/15/04	AM
Hexachlorobutadiene	ND	1	5	ug/Kg	03/15/04	AM
Iodomethane	ND	1	5	ug/Kg	03/15/04	AM
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	03/15/04	AM
Methacrylonitrile	ND	1	5	ug/Kg	03/15/04	AM
Methyl methacrylate	ND	1	5	ug/Kg	03/15/04	AM
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	03/15/04	AM
Methylene chloride	ND	1	5	ug/Kg	03/15/04	AM
n-Butylbenzene	ND	1	5	ug/Kg	03/15/04	AM
n-Propylbenzene	ND	1	5	ug/Kg	03/15/04	AM
Naphthalene	ND	1	5	ug/Kg	03/15/04	AM
p-Isopropyltoluene	ND	1	5	ug/Kg	03/15/04	AM
Pentachloroethane	ND	1	5	ug/Kg	03/15/04	AM
Propionitrile	ND	1	5	ug/Kg	03/15/04	AM
sec-Butylbenzene	ND	1	5	ug/Kg	03/15/04	AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504422 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS02-2
Date Sampled: 03/09/2004
Time Sampled: 11:02
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Styrene	ND	1	5	ug/Kg	03/15/04	AM
tert-Butylbenzene	ND	1	5	ug/Kg	03/15/04	AM
Tetrachloroethene	ND	1	5	ug/Kg	03/15/04	AM
Toluene	ND	1	5	ug/Kg	03/15/04	AM
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	03/15/04	AM
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	03/15/04	AM
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/15/04	AM
Trichloroethene	ND	1	5	ug/Kg	03/15/04	AM
Trichlorofluoromethane	ND	1	5	ug/Kg	03/15/04	AM
Vinyl acetate	ND	1	50	ug/Kg	03/15/04	AM
Vinyl chloride	ND	1	5	ug/Kg	03/15/04	AM
Xylenes, total	ND	1	5	ug/Kg	03/15/04	AM

Surrogates		Units	Control Limits
Surr1 - Dibromofluoromethane	89	%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	107	%	70 - 135
Surr3 - Toluene-d8	102	%	70 - 135
Surr4 - p-Bromofluorobenzene	107	%	70 - 135

8270C Acid/Base/Neutral Extractables

1,2,4-Trichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,2-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,3-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,4-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
2,4,5-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4,6-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dichlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dimethylphenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dinitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2,6-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2-Chloronaphthalene	ND	1	333	ug/Kg	03/14/04	DP
2-Chlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2-Methylnaphthalene	ND	1	333	ug/Kg	03/14/04	DP
2-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
2-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
2-Nitrophenol	ND	1	333	ug/Kg	03/14/04	DP
3,3-Dichlorobenzidine	ND	1	333	ug/Kg	03/14/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504422 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS02-2
Date Sampled: 03/09/2004
Time Sampled: 11:02
S[illegible]ed By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
3-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
3-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4,6-Dinitro-2-methylphenol	ND	1	1665	ug/Kg	03/14/04	DP
4-Bromophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Chloro-3-methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Chloroaniline	ND	1	333	ug/Kg	03/14/04	DP
4-Chlorophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4-Nitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
Acenaphthene	ND	1	333	ug/Kg	03/14/04	DP
Acenaphthylene	ND	1	333	ug/Kg	03/14/04	DP
Anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzidine	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(b)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(g,h,i)perylene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(k)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzoic Acid	ND	1	333	ug/Kg	03/14/04	DP
Benzyl alcohol	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethoxy)methane	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethyl)ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroisopropyl) ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Ethylhexyl)phthalate	ND	1	333	ug/Kg	03/14/04	DP
Butylbenzylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Chrysene	ND	1	333	ug/Kg	03/14/04	DP
Di-n-butylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Di-n-octylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dibenz(a,h)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Dibenzofuran	ND	1	333	ug/Kg	03/14/04	DP
Diethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dimethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Fluorene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobutadiene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorocyclopentadiene	ND	1	333	ug/Kg	03/14/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504422 **Client:** BHATE

Matrix: SOLID **Client Sample ID:** F4WSM-CS02-2

Date Sampled: 03/09/2004

Time Sampled: 11:02

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
Hexachloroethane	ND	1	333	ug/Kg	03/14/04	DP
Indeno(1,2,3-c,d)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Isophorone	ND	1	333	ug/Kg	03/14/04	DP
N-Nitroso-di-n-propylamine	ND	1	333	ug/Kg	03/14/04	DP
N-Nitrosodiphenylamine	ND	1	333	ug/Kg	03/14/04	DP
Naphthalene	ND	1	333	ug/Kg	03/14/04	DP
Nitrobenzene	ND	1	333	ug/Kg	03/14/04	DP
Pentachlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
Phenanthrene	ND	1	333	ug/Kg	03/14/04	DP
Phenol	ND	1	333	ug/Kg	03/14/04	DP
Pyrene	ND	1	333	ug/Kg	03/14/04	DP
Surrogates				**Units**	**Control Limits**	
2,4,6-Tribromophenol (sur)	72			%	17 - 122	
2-Fluorobiphenyl (sur)	65			%	30 - 115	
2-Fluorophenol (sur)	75			%	25 - 121	
Nitrobenzene-d5 (sur)	61			%	23 - 120	
Phenol-d5 (sur)	81			%	24 - 113	
Terphenyl-d14 (sur)	96			%	18 - 137	

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504423 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS03-2
Date Sampled: 03/09/2004
Time Sampled: 11:06
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8015 Carbon Chain I						
C06 - C10	790	50	150.0	mg/Kg	03/11/04	AF
C10 - C22	1230	50	150.0	mg/Kg	03/11/04	AF
C22 - C36	ND	50	250.0	mg/Kg	03/11/04	AF
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	100	500.0	ug/Kg	03/11/04	AM
1,1,1-Trichloroethane	ND	100	500.0	ug/Kg	03/11/04	AM
1,1,2,2-Tetrachloroethane	ND	100	500.0	ug/Kg	03/11/04	AM
1,1,2-Trichloroethane	ND	100	500.0	ug/Kg	03/11/04	AM
1,1,2-Trichlorotrifluoroethane	ND	100	500.0	ug/Kg	03/11/04	AM
1,1-Dichloroethane	ND	100	500.0	ug/Kg	03/11/04	AM
1,1-Dichloroethene	ND	100	500.0	ug/Kg	03/11/04	AM
1,1-Dichloropropene	ND	100	500.0	ug/Kg	03/11/04	AM
1,2,3-Trichlorobenzene	ND	100	500.0	ug/Kg	03/11/04	AM
1,2,3-Trichloropropane	ND	100	500.0	ug/Kg	03/11/04	AM
1,2,4-Trichlorobenzene	ND	100	500.0	ug/Kg	03/11/04	AM
1,2,4-Trimethylbenzene	760	100	500.0	ug/Kg	03/11/04	AM
1,2-Dibromo-3-chloropropane	ND	100	500.0	ug/Kg	03/11/04	AM
1,2-Dibromoethane	ND	100	500.0	ug/Kg	03/11/04	AM
1,2-Dichlorobenzene	ND	100	500.0	ug/Kg	03/11/04	AM
1,2-Dichloroethane	ND	100	500.0	ug/Kg	03/11/04	AM
1,2-Dichloropropane	ND	100	500.0	ug/Kg	03/11/04	AM
1,3,5-Trimethylbenzene	176	100	500.0	ug/Kg	03/11/04	AM
1,3-Dichlorobenzene	ND	100	500.0	ug/Kg	03/11/04	AM
1,3-Dichloropropane	ND	100	500.0	ug/Kg	03/11/04	AM
1,4-Dichlorobenzene	ND	100	500.0	ug/Kg	03/11/04	AM
1-Chlorohexane	ND	100	500.0	ug/Kg	03/11/04	AM
2,2-Dichloropropane	ND	100	500.0	ug/Kg	03/11/04	AM
2-Butanone (MEK)	ND	100	10000.0	ug/Kg	03/11/04	AM
2-Chloroethyl vinyl ether	ND	100	500.0	ug/Kg	03/11/04	AM
2-Chlorotoluene	ND	100	500.0	ug/Kg	03/11/04	AM
2-Hexanone	ND	100	500.0	ug/Kg	03/11/04	AM
4-Chlorotoluene	ND	100	500.0	ug/Kg	03/11/04	AM
4-Methyl -2- Pentanone	ND	100	500.0	ug/Kg	03/11/04	AM
Acetone	ND	100	5000.0	ug/Kg	03/11/04	AM
Acetonitrile	ND	100	500.0	ug/Kg	03/11/04	AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504423 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS03-2
Date Sampled: 03/09/2004
Time Sampled: 11:06
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Acrolein	ND	100	20000.0	ug/Kg	03/11/04	AM
Acrylonitrile	ND	100	500.0	ug/Kg	03/11/04	AM
Allyl chloride	ND	100	500.0	ug/Kg	03/11/04	AM
Benzene	ND	100	500.0	ug/Kg	03/11/04	AM
Benzyl chloride	ND	100	500.0	ug/Kg	03/11/04	AM
Bromobenzene	ND	100	500.0	ug/Kg	03/11/04	AM
Bromochloromethane	ND	100	500.0	ug/Kg	03/11/04	AM
Bromodichloromethane	ND	100	500.0	ug/Kg	03/11/04	AM
Bromoform	ND	100	500.0	ug/Kg	03/11/04	AM
Bromomethane	ND	100	500.0	ug/Kg	03/11/04	AM
Carbon Disulfide	ND	100	500.0	ug/Kg	03/11/04	AM
Carbon tetrachloride	ND	100	500.0	ug/Kg	03/11/04	AM
Chlorobenzene	ND	100	500.0	ug/Kg	03/11/04	AM
Chloroethane	ND	100	500.0	ug/Kg	03/11/04	AM
Chloroform	ND	100	500.0	ug/Kg	03/11/04	AM
Chloromethane	ND	100	500.0	ug/Kg	03/11/04	AM
cis-1,2-Dichloroethene	ND	100	500.0	ug/Kg	03/11/04	AM
cis-1,3-Dichloropropene	ND	100	500.0	ug/Kg	03/11/04	AM
cis-1,4-Dichloro-2-butene	ND	100	500.0	ug/Kg	03/11/04	AM
Dibromochloromethane	ND	100	500.0	ug/Kg	03/11/04	AM
Dibromomethane	ND	100	500.0	ug/Kg	03/11/04	AM
Dichlorodifluoromethane	ND	100	500.0	ug/Kg	03/11/04	AM
Ethyl benzene	ND	100	500.0	ug/Kg	03/11/04	AM
Ethyl methacrylate	ND	100	500.0	ug/Kg	03/11/04	AM
Hexachlorobutadiene	ND	100	500.0	ug/Kg	03/11/04	AM
Iodomethane	ND	100	500.0	ug/Kg	03/11/04	AM
Isopropylbenzene (Cumene)	ND	100	500.0	ug/Kg	03/11/04	AM
Methacrylonitrile	ND	100	500.0	ug/Kg	03/11/04	AM
Methyl methacrylate	ND	100	500.0	ug/Kg	03/11/04	AM
Methyl-tert-butylether (MTBE)	ND	100	500.0	ug/Kg	03/11/04	AM
Methylene chloride	ND	100	500.0	ug/Kg	03/11/04	AM
n-Butylbenzene	ND	100	500.0	ug/Kg	03/11/04	AM
n-Propylbenzene	ND	100	500.0	ug/Kg	03/11/04	AM
Naphthalene	ND	100	500.0	ug/Kg	03/11/04	AM
p-Isopropyltoluene	ND	100	500.0	ug/Kg	03/11/04	AM
Pentachloroethane	ND	100	500.0	ug/Kg	03/11/04	AM
Propionitrile	ND	100	500.0	ug/Kg	03/11/04	AM
sec-Butylbenzene	ND	100	500.0	ug/Kg	03/11/04	AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504423 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS03-2
Date Sampled: 03/09/2004
Time Sampled: 11:06
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Styrene	ND	100	500.0	ug/Kg	03/11/04	AM
tert-Butylbenzene	ND	100	500.0	ug/Kg	03/11/04	AM
Tetrachloroethene	ND	100	500.0	ug/Kg	03/11/04	AM
Toluene	ND	100	500.0	ug/Kg	03/11/04	AM
trans-1,2-Dichloroethene	ND	100	500.0	ug/Kg	03/11/04	AM
trans-1,3-Dichloropropene	ND	100	500.0	ug/Kg	03/11/04	AM
trans-1,4-Dichloro-2-butene	ND	100	500.0	ug/Kg	03/11/04	AM
Trichloroethene	ND	100	500.0	ug/Kg	03/11/04	AM
Trichlorofluoromethane	ND	100	500.0	ug/Kg	03/11/04	AM
Vinyl acetate	ND	100	5000.0	ug/Kg	03/11/04	AM
Vinyl chloride	ND	100	500.0	ug/Kg	03/11/04	AM
Xylenes, total	ND	100	500.0	ug/Kg	03/11/04	AM
Surrogates				**Units**	**Control Limits**	
Surr1 - Dibromofluoromethane	92			%	70 - 135	
Surr2 - 1,2-Dichloroethane-d4	106			%	70 - 135	
Surr3 - Toluene-d8	100			%	70 - 135	
Surr4 - p-Bromofluorobenzene	101			%	70 - 135	
8270C Acid/Base/Neutral Extractables						
1,2,4-Trichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,2-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,3-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,4-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
2,4,5-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4,6-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dichlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dimethylphenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dinitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2,6-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2-Chloronaphthalene	ND	1	333	ug/Kg	03/14/04	DP
2-Chlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2-Methylnaphthalene	12500	1	333	ug/Kg	03/14/04	DP
2-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
2-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
2-Nitrophenol	ND	1	333	ug/Kg	03/14/04	DP
3,3-Dichlorobenzidine	ND	1	333	ug/Kg	03/14/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504423 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS03-2
Date Sampled: 03/09/2004
Time Sampled: 11:06
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
3-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
3-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4,6-Dinitro-2-methylphenol	ND	1	1665	ug/Kg	03/14/04	DP
4-Bromophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Chloro-3-methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Chloroaniline	ND	1	333	ug/Kg	03/14/04	DP
4-Chlorophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4-Nitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
Acenaphthene	ND	1	333	ug/Kg	03/14/04	DP
Acenaphthylene	ND	1	333	ug/Kg	03/14/04	DP
Anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzidine	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(b)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(g,h,i)perylene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(k)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzoic Acid	ND	1	333	ug/Kg	03/14/04	DP
Benzyl alcohol	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethoxy)methane	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethyl)ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroisopropyl) ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Ethylhexyl)phthalate	ND	1	333	ug/Kg	03/14/04	DP
Butylbenzylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Chrysene	ND	1	333	ug/Kg	03/14/04	DP
Di-n-butylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Di-n-octylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dibenz(a,h)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Dibenzofuran	750	1	333	ug/Kg	03/14/04	DP
Diethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dimethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Fluorene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobutadiene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorocyclopentadiene	ND	1	333	ug/Kg	03/14/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504423 **Client:** BHATE

Matrix: SOLID **Client Sample ID:** F4WSM-CS03-2

Date Sampled: 03/09/2004

Time Sampled: 11:06

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
Hexachloroethane	ND	1	333	ug/Kg	03/14/04	DP
Indeno(1,2,3-c,d)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Isophorone	ND	1	333	ug/Kg	03/14/04	DP
N-Nitroso-di-n-propylamine	ND	1	333	ug/Kg	03/14/04	DP
N-Nitrosodiphenylamine	ND	1	333	ug/Kg	03/14/04	DP
Naphthalene	2490	1	333	ug/Kg	03/14/04	DP
Nitrobenzene	ND	1	333	ug/Kg	03/14/04	DP
Pentachlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
Phenanthrene	ND	1	333	ug/Kg	03/14/04	DP
Phenol	ND	1	333	ug/Kg	03/14/04	DP
Pyrene	ND	1	333	ug/Kg	03/14/04	DP

Surrogates		Units	Control Limits
2,4,6-Tribromophenol (sur)	82	%	17 - 122
2-Fluorobiphenyl (sur)	78	%	30 - 115
2-Fluorophenol (sur)	100	%	25 - 121
Nitrobenzene-d5 (sur)	96	%	23 - 120
Phenol-d5 (sur)	110	%	24 - 113
Terphenyl-d14 (sur)	93	%	18 - 137

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504424 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS04-2
Date Sampled: 03/09/2004
Time Sampled: 11:10
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8015 Carbon Chain I						
C06 - C10	6260	200	600.0	mg/Kg	03/11/04	AF
C10 - C22	2650	100	300.0	mg/Kg	03/11/04	AF
C22 - C36	10	1	5	mg/Kg	03/11/04	AF
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	100	500.0	ug/Kg	03/12/04	AM
1,1,1-Trichloroethane	ND	100	500.0	ug/Kg	03/12/04	AM
1,1,2,2-Tetrachloroethane	ND	100	500.0	ug/Kg	03/12/04	AM
1,1,2-Trichloroethane	ND	100	500.0	ug/Kg	03/12/04	AM
1,1,2-Trichlorotrifluoroethane	ND	100	500.0	ug/Kg	03/12/04	AM
1,1-Dichloroethane	ND	100	500.0	ug/Kg	03/12/04	AM
1,1-Dichloroethene	ND	100	500.0	ug/Kg	03/12/04	AM
1,1-Dichloropropene	ND	100	500.0	ug/Kg	03/12/04	AM
1,2,3-Trichlorobenzene	ND	100	500.0	ug/Kg	03/12/04	AM
1,2,3-Trichloropropane	ND	100	500.0	ug/Kg	03/12/04	AM
1,2,4-Trichlorobenzene	ND	100	500.0	ug/Kg	03/12/04	AM
1,2,4-Trimethylbenzene	41800	100	500.0	ug/Kg	03/12/04	AM
1,2-Dibromo-3-chloropropane	ND	100	500.0	ug/Kg	03/12/04	AM
1,2-Dibromoethane	ND	100	500.0	ug/Kg	03/12/04	AM
1,2-Dichlorobenzene	ND	100	500.0	ug/Kg	03/12/04	AM
1,2-Dichloroethane	ND	100	500.0	ug/Kg	03/12/04	AM
1,2-Dichloropropane	ND	100	500.0	ug/Kg	03/12/04	AM
1,3,5-Trimethylbenzene	9830	100	500.0	ug/Kg	03/12/04	AM
1,3-Dichlorobenzene	ND	100	500.0	ug/Kg	03/12/04	AM
1,3-Dichloropropane	ND	100	500.0	ug/Kg	03/12/04	AM
1,4-Dichlorobenzene	ND	100	500.0	ug/Kg	03/12/04	AM
1-Chlorohexane	ND	100	500.0	ug/Kg	03/12/04	AM
2,2-Dichloropropane	ND	100	500.0	ug/Kg	03/12/04	AM
2-Butanone (MEK)	ND	100	10000.0	ug/Kg	03/12/04	AM
2-Chloroethyl vinyl ether	ND	100	500.0	ug/Kg	03/12/04	AM
2-Chlorotoluene	ND	100	500.0	ug/Kg	03/12/04	AM
2-Hexanone	ND	100	500.0	ug/Kg	03/12/04	AM
4-Chlorotoluene	ND	100	500.0	ug/Kg	03/12/04	AM
4-Methyl -2- Pentanone	ND	100	500.0	ug/Kg	03/12/04	AM
Acetone	ND	100	5000.0	ug/Kg	03/12/04	AM
Acetonitrile	ND	100	500.0	ug/Kg	03/12/04	AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504424 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS04-2
Date Sampled: 03/09/2004
Time Sampled: 11:10
S ed By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Acrolein	ND	100	20000.0	ug/Kg	03/12/04	AM
Acrylonitrile	ND	100	500.0	ug/Kg	03/12/04	AM
Allyl chloride	ND	100	500.0	ug/Kg	03/12/04	AM
Benzene	ND	100	500.0	ug/Kg	03/12/04	AM
Benzyl chloride	ND	100	500.0	ug/Kg	03/12/04	AM
Bromobenzene	ND	100	500.0	ug/Kg	03/12/04	AM
Bromochloromethane	ND	100	500.0	ug/Kg	03/12/04	AM
Bromodichloromethane	ND	100	500.0	ug/Kg	03/12/04	AM
Bromoform	ND	100	500.0	ug/Kg	03/12/04	AM
Bromomethane	ND	100	500.0	ug/Kg	03/12/04	AM
Carbon Disulfide	ND	100	500.0	ug/Kg	03/12/04	AM
Carbon tetrachloride	ND	100	500.0	ug/Kg	03/12/04	AM
Chlorobenzene	ND	100	500.0	ug/Kg	03/12/04	AM
Chloroethane	ND	100	500.0	ug/Kg	03/12/04	AM
Chloroform	ND	100	500.0	ug/Kg	03/12/04	AM
Chloromethane	ND	100	500.0	ug/Kg	03/12/04	AM
cis-1,2-Dichloroethene	ND	100	500.0	ug/Kg	03/12/04	AM
cis-1,3-Dichloropropene	ND	100	500.0	ug/Kg	03/12/04	AM
cis-1,4-Dichloro-2-butene	ND	100	500.0	ug/Kg	03/12/04	AM
Dibromochloromethane	ND	100	500.0	ug/Kg	03/12/04	AM
Dibromomethane	ND	100	500.0	ug/Kg	03/12/04	AM
Dichlorodifluoromethane	ND	100	500.0	ug/Kg	03/12/04	AM
Ethyl benzene	3210	100	500.0	ug/Kg	03/12/04	AM
Ethyl methacrylate	ND	100	500.0	ug/Kg	03/12/04	AM
Hexachlorobutadiene	ND	100	500.0	ug/Kg	03/12/04	AM
Iodomethane	ND	100	500.0	ug/Kg	03/12/04	AM
Isopropylbenzene (Cumene)	ND	100	500.0	ug/Kg	03/12/04	AM
Methacrylonitrile	ND	100	500.0	ug/Kg	03/12/04	AM
Methyl methacrylate	ND	100	500.0	ug/Kg	03/12/04	AM
Methyl-tert-butylether (MTBE)	ND	100	500.0	ug/Kg	03/12/04	AM
Methylene chloride	ND	100	500.0	ug/Kg	03/12/04	AM
n-Butylbenzene	21900	100	500.0	ug/Kg	03/12/04	AM
n-Propylbenzene	6520	100	500.0	ug/Kg	03/12/04	AM
Naphthalene	17900	100	500.0	ug/Kg	03/12/04	AM
p-Isopropyltoluene	9490	100	500.0	ug/Kg	03/12/04	AM
Pentachloroethane	ND	100	500.0	ug/Kg	03/12/04	AM
Propionitrile	ND	100	500.0	ug/Kg	03/12/04	AM
sec-Butylbenzene	ND	100	500.0	ug/Kg	03/12/04	AM

DL Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504424 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS04-2
Date Sampled: 03/09/2004
Time Sampled: 11:10
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Styrene	ND	100	500.0	ug/Kg	03/12/04	AM
tert-Butylbenzene	ND	100	500.0	ug/Kg	03/12/04	AM
Tetrachloroethene	ND	100	500.0	ug/Kg	03/12/04	AM
Toluene	ND	100	500.0	ug/Kg	03/12/04	AM
trans-1,2-Dichloroethene	ND	100	500.0	ug/Kg	03/12/04	AM
trans-1,3-Dichloropropene	ND	100	500.0	ug/Kg	03/12/04	AM
trans-1,4-Dichloro-2-butene	ND	100	500.0	ug/Kg	03/12/04	AM
Trichloroethene	ND	100	500.0	ug/Kg	03/12/04	AM
Trichlorofluoromethane	ND	100	500.0	ug/Kg	03/12/04	AM
Vinyl acetate	ND	100	5000.0	ug/Kg	03/12/04	AM
Vinyl chloride	ND	100	500.0	ug/Kg	03/12/04	AM
Xylenes, total	9650	100	500.0	ug/Kg	03/12/04	AM
Surrogates				**Units**	**Control Limits**	
Surr1 - Dibromofluoromethane	89			%	70 - 135	
Surr2 - 1,2-Dichloroethane-d4	102			%	70 - 135	
Surr3 - Toluene-d8	99			%	70 - 135	
Surr4 - p-Bromofluorobenzene	0			%	70 - 135	
8270C Acid/Base/Neutral Extractables						
1,2,4-Trichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,2-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,3-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,4-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
2,4,5-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4,6-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dichlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dimethylphenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dinitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2,6-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2-Chloronaphthalene	ND	1	333	ug/Kg	03/14/04	DP
2-Chlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2-Methylnaphthalene	25300	1	333	ug/Kg	03/14/04	DP
2-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
2-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
2-Nitrophenol	ND	1	333	ug/Kg	03/14/04	DP
3,3-Dichlorobenzidine	ND	1	333	ug/Kg	03/14/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504424 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS04-2
Date Sampled: 03/09/2004
Time Sampled: 11:10
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
3-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
3-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4,6-Dinitro-2-methylphenol	ND	1	1665	ug/Kg	03/14/04	DP
4-Bromophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Chloro-3-methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Chloroaniline	ND	1	333	ug/Kg	03/14/04	DP
4-Chlorophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4-Nitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
Acenaphthene	ND	1	333	ug/Kg	03/14/04	DP
Acenaphthylene	ND	1	333	ug/Kg	03/14/04	DP
Anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzidine	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(b)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(g,h,i)perylene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(k)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzoic Acid	ND	1	333	ug/Kg	03/14/04	DP
Benzyl alcohol	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethoxy)methane	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethyl)ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroisopropyl) ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Ethylhexyl)phthalate	ND	1	333	ug/Kg	03/14/04	DP
Butylbenzylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Chrysene	ND	1	333	ug/Kg	03/14/04	DP
Di-n-butylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Di-n-octylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dibenz(a,h)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Dibenzofuran	1020	1	333	ug/Kg	03/14/04	DP
Diethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dimethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Fluorene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobutadiene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorocyclopentadiene	ND	1	333	ug/Kg	03/14/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504424 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS04-2
Date Sampled: 03/09/2004
Time Sampled: 11:10
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
Hexachloroethane	ND	1	333	ug/Kg	03/14/04	DP
Indeno(1,2,3-c,d)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Isophorone	ND	1	333	ug/Kg	03/14/04	DP
N-Nitroso-di-n-propylamine	ND	1	333	ug/Kg	03/14/04	DP
N-Nitrosodiphenylamine	ND	1	333	ug/Kg	03/14/04	DP
Naphthalene	16700	1	333	ug/Kg	03/14/04	DP
Nitrobenzene	ND	1	333	ug/Kg	03/14/04	DP
Pentachlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
Phenanthrene	ND	1	333	ug/Kg	03/14/04	DP
Phenol	ND	1	333	ug/Kg	03/14/04	DP
Pyrene	ND	1	333	ug/Kg	03/14/04	DP

Surrogates		Units	Control Limits
2,4,6-Tribromophenol (sur)	80	%	17 - 122
2-Fluorobiphenyl (sur)	77	%	30 - 115
2-Fluorophenol (sur)	101	%	25 - 121
Nitrobenzene-d5 (sur)	58	%	23 - 120
Phenol-d5 (sur)	108	%	24 - 113
Terphenyl-d14 (sur)	93	%	18 - 137

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504425 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS05-2
Date Sampled: 03/09/2004
Time Sampled: 11:18
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8015 Carbon Chain I						
C06 - C10	14800	200	600.0	mg/Kg	03/11/04	AF
C10 - C22	5050	100	300.0	mg/Kg	03/11/04	AF
C22 - C36	314	10	50.0	mg/Kg	03/11/04	AF
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	500	2500.0	ug/Kg	03/12/04	AM
1,1,1-Trichloroethane	ND	500	2500.0	ug/Kg	03/12/04	AM
1,1,2,2-Tetrachloroethane	ND	500	2500.0	ug/Kg	03/12/04	AM
1,1,2-Trichloroethane	ND	500	2500.0	ug/Kg	03/12/04	AM
1,1,2-Trichlorotrifluoroethane	ND	500	2500.0	ug/Kg	03/12/04	AM
1,1-Dichloroethane	ND	500	2500.0	ug/Kg	03/12/04	AM
1,1-Dichloroethene	ND	500	2500.0	ug/Kg	03/12/04	AM
1,1-Dichloropropene	ND	500	2500.0	ug/Kg	03/12/04	AM
1,2,3-Trichlorobenzene	ND	500	2500.0	ug/Kg	03/12/04	AM
1,2,3-Trichloropropane	ND	500	2500.0	ug/Kg	03/12/04	AM
1,2,4-Trichlorobenzene	ND	500	2500.0	ug/Kg	03/12/04	AM
1,2,4-Trimethylbenzene	140000	500	2500.0	ug/Kg	03/12/04	AM
1,2-Dibromo-3-chloropropane	ND	500	2500.0	ug/Kg	03/12/04	AM
1,2-Dibromoethane	ND	500	2500.0	ug/Kg	03/12/04	AM
1,2-Dichlorobenzene	ND	500	2500.0	ug/Kg	03/12/04	AM
1,2-Dichloroethane	ND	500	2500.0	ug/Kg	03/12/04	AM
1,2-Dichloropropane	ND	500	2500.0	ug/Kg	03/12/04	AM
1,3,5-Trimethylbenzene	33000	500	2500.0	ug/Kg	03/12/04	AM
1,3-Dichlorobenzene	ND	500	2500.0	ug/Kg	03/12/04	AM
1,3-Dichloropropane	ND	500	2500.0	ug/Kg	03/12/04	AM
1,4-Dichlorobenzene	ND	500	2500.0	ug/Kg	03/12/04	AM
1-Chlorohexane	ND	500	2500.0	ug/Kg	03/12/04	AM
2,2-Dichloropropane	ND	500	2500.0	ug/Kg	03/12/04	AM
2-Butanone (MEK)	ND	500	50000.0	ug/Kg	03/12/04	AM
2-Chloroethyl vinyl ether	ND	500	2500.0	ug/Kg	03/12/04	AM
2-Chlorotoluene	ND	500	2500.0	ug/Kg	03/12/04	AM
2-Hexanone	ND	500	2500.0	ug/Kg	03/12/04	AM
4-Chlorotoluene	ND	500	2500.0	ug/Kg	03/12/04	AM
4-Methyl -2- Pentanone	ND	500	2500.0	ug/Kg	03/12/04	AM
Acetone	ND	500	25000.0	ug/Kg	03/12/04	AM
Acetonitrile	ND	500	2500.0	ug/Kg	03/12/04	AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504425 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS05-2
Date Sampled: 03/09/2004
Time Sampled: 11:18
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Acrolein	ND	500	100000.0	ug/Kg	03/12/04	AM
Acrylonitrile	ND	500	2500.0	ug/Kg	03/12/04	AM
Allyl chloride	ND	500	2500.0	ug/Kg	03/12/04	AM
Benzene	ND	500	2500.0	ug/Kg	03/12/04	AM
Benzyl chloride	ND	500	2500.0	ug/Kg	03/12/04	AM
Bromobenzene	ND	500	2500.0	ug/Kg	03/12/04	AM
Bromochloromethane	ND	500	2500.0	ug/Kg	03/12/04	AM
Bromodichloromethane	ND	500	2500.0	ug/Kg	03/12/04	AM
Bromoform	ND	500	2500.0	ug/Kg	03/12/04	AM
Bromomethane	ND	500	2500.0	ug/Kg	03/12/04	AM
Carbon Disulfide	ND	500	2500.0	ug/Kg	03/12/04	AM
Carbon tetrachloride	ND	500	2500.0	ug/Kg	03/12/04	AM
Chlorobenzene	ND	500	2500.0	ug/Kg	03/12/04	AM
Chloroethane	ND	500	2500.0	ug/Kg	03/12/04	AM
Chloroform	ND	500	2500.0	ug/Kg	03/12/04	AM
Chloromethane	ND	500	2500.0	ug/Kg	03/12/04	AM
cis-1,2-Dichloroethene	ND	500	2500.0	ug/Kg	03/12/04	AM
cis-1,3-Dichloropropene	ND	500	2500.0	ug/Kg	03/12/04	AM
cis-1,4-Dichloro-2-butene	ND	500	2500.0	ug/Kg	03/12/04	AM
Dibromochloromethane	ND	500	2500.0	ug/Kg	03/12/04	AM
Dibromomethane	ND	500	2500.0	ug/Kg	03/12/04	AM
Dichlorodifluoromethane	ND	500	2500.0	ug/Kg	03/12/04	AM
Ethyl benzene	18900	500	2500.0	ug/Kg	03/12/04	AM
Ethyl methacrylate	ND	500	2500.0	ug/Kg	03/12/04	AM
Hexachlorobutadiene	ND	500	2500.0	ug/Kg	03/12/04	AM
Iodomethane	ND	500	2500.0	ug/Kg	03/12/04	AM
Isopropylbenzene (Cumene)	ND	500	2500.0	ug/Kg	03/12/04	AM
Methacrylonitrile	ND	500	2500.0	ug/Kg	03/12/04	AM
Methyl methacrylate	ND	500	2500.0	ug/Kg	03/12/04	AM
Methyl-tert-butylether (MTBE)	ND	500	2500.0	ug/Kg	03/12/04	AM
Methylene chloride	ND	500	2500.0	ug/Kg	03/12/04	AM
n-Butylbenzene	ND	500	2500.0	ug/Kg	03/12/04	AM
n-Propylbenzene	23300	500	2500.0	ug/Kg	03/12/04	AM
Naphthalene	60800	500	2500.0	ug/Kg	03/12/04	AM
p-Isopropyltoluene	30100	500	2500.0	ug/Kg	03/12/04	AM
Pentachloroethane	ND	500	2500.0	ug/Kg	03/12/04	AM
Propionitrile	ND	500	2500.0	ug/Kg	03/12/04	AM
sec-Butylbenzene	ND	500	2500.0	ug/Kg	03/12/04	AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504425 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS05-2
Date Sampled: 03/09/2004
Time Sampled: 11:18
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Styrene	ND	500	2500.0	ug/Kg	03/12/04	AM
tert-Butylbenzene	ND	500	2500.0	ug/Kg	03/12/04	AM
Tetrachloroethene	ND	500	2500.0	ug/Kg	03/12/04	AM
Toluene	ND	500	2500.0	ug/Kg	03/12/04	AM
trans-1,2-Dichloroethene	ND	500	2500.0	ug/Kg	03/12/04	AM
trans-1,3-Dichloropropene	ND	500	2500.0	ug/Kg	03/12/04	AM
trans-1,4-Dichloro-2-butene	ND	500	2500.0	ug/Kg	03/12/04	AM
Trichloroethene	ND	500	2500.0	ug/Kg	03/12/04	AM
Trichlorofluoromethane	ND	500	2500.0	ug/Kg	03/12/04	AM
Vinyl acetate	ND	500	25000.0	ug/Kg	03/12/04	AM
Vinyl chloride	ND	500	2500.0	ug/Kg	03/12/04	AM
Xylenes, total	46000	500	2500.0	ug/Kg	03/12/04	AM
Surrogates				**Units**	**Control Limits**	
Surr1 - Dibromofluoromethane	90			%	70 - 135	
Surr2 - 1,2-Dichloroethane-d4	104			%	70 - 135	
Surr3 - Toluene-d8	98			%	70 - 135	
Surr4 - p-Bromofluorobenzene	0			%	70 - 135	
8270C Acid/Base/Neutral Extractables						
1,2,4-Trichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,2-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,3-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,4-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
2,4,5-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4,6-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dichlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dimethylphenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dinitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2,6-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2-Chloronaphthalene	ND	1	333	ug/Kg	03/14/04	DP
2-Chlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2-Methylnaphthalene	41700	1	333	ug/Kg	03/14/04	DP
2-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
2-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
2-Nitrophenol	ND	1	333	ug/Kg	03/14/04	DP
3,3-Dichlorobenzidine	ND	1	333	ug/Kg	03/14/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504425 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS05-2
Date Sampled: 03/09/2004
Time Sampled: 11:18
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
3-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
3-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4,6-Dinitro-2-methylphenol	ND	1	1665	ug/Kg	03/14/04	DP
4-Bromophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Chloro-3-methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Chloroaniline	ND	1	333	ug/Kg	03/14/04	DP
4-Chlorophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4-Nitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
Acenaphthene	ND	1	333	ug/Kg	03/14/04	DP
Acenaphthylene	ND	1	333	ug/Kg	03/14/04	DP
Anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzidine	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(b)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(g,h,i)perylene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(k)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzoic Acid	ND	1	333	ug/Kg	03/14/04	DP
Benzyl alcohol	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethoxy)methane	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethyl)ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroisopropyl) ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Ethylhexyl)phthalate	ND	1	333	ug/Kg	03/14/04	DP
Butylbenzylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Chrysene	ND	1	333	ug/Kg	03/14/04	DP
Di-n-butylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Di-n-octylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dibenz(a,h)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Dibenzofuran	2040	1	333	ug/Kg	03/14/04	DP
Diethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dimethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Fluorene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobutadiene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorocyclopentadiene	ND	1	333	ug/Kg	03/14/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504425 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS05-2
Date Sampled: 03/09/2004
Time Sampled: 11:18
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
Hexachloroethane	ND	1	333	ug/Kg	03/14/04	DP
Indeno(1,2,3-c,d)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Isophorone	ND	1	333	ug/Kg	03/14/04	DP
N-Nitroso-di-n-propylamine	ND	1	333	ug/Kg	03/14/04	DP
N-Nitrosodiphenylamine	ND	1	333	ug/Kg	03/14/04	DP
Naphthalene	28900	1	333	ug/Kg	03/14/04	DP
Nitrobenzene	ND	1	333	ug/Kg	03/14/04	DP
Pentachlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
Phenanthrene	ND	1	333	ug/Kg	03/14/04	DP
Phenol	ND	1	333	ug/Kg	03/14/04	DP
Pyrene	ND	1	333	ug/Kg	03/14/04	DP

Surrogates		**Units**	**Control Limits**
2,4,6-Tribromophenol (sur)	68	%	17 - 122
2-Fluorobiphenyl (sur)	76	%	30 - 115
2-Fluorophenol (sur)	32	%	25 - 121
Nitrobenzene-d5 (sur)	37	%	23 - 120
Phenol-d5 (sur)	54	%	24 - 113
Terphenyl-d14 (sur)	90	%	18 - 137

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504426 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS06-2
Date Sampled: 03/09/2004
Time Sampled: 11:26
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8015 Carbon Chain I						
C06 - C10	10	1	3	mg/Kg	03/11/04	AF
C10 - C22	65	1	3	mg/Kg	03/11/04	AF
C22 - C36	9.3	1	5	mg/Kg	03/11/04	AF
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	50	250.0	ug/Kg	03/15/04	AM
1,1,1-Trichloroethane	ND	50	250.0	ug/Kg	03/15/04	AM
1,1,2,2-Tetrachloroethane	ND	50	250.0	ug/Kg	03/15/04	AM
1,1,2-Trichloroethane	ND	50	250.0	ug/Kg	03/15/04	AM
1,1,2-Trichlorotrifluoroethane	ND	50	250.0	ug/Kg	03/15/04	AM
1,1-Dichloroethane	ND	50	250.0	ug/Kg	03/15/04	AM
1,1-Dichloroethene	ND	50	250.0	ug/Kg	03/15/04	AM
1,1-Dichloropropene	ND	50	250.0	ug/Kg	03/15/04	AM
1,2,3-Trichlorobenzene	ND	50	250.0	ug/Kg	03/15/04	AM
1,2,3-Trichloropropane	ND	50	250.0	ug/Kg	03/15/04	AM
1,2,4-Trichlorobenzene	ND	50	250.0	ug/Kg	03/15/04	AM
1,2,4-Trimethylbenzene	ND	50	250.0	ug/Kg	03/15/04	AM
1,2-Dibromo-3-chloropropane	ND	50	250.0	ug/Kg	03/15/04	AM
1,2-Dibromoethane	ND	50	250.0	ug/Kg	03/15/04	AM
1,2-Dichlorobenzene	ND	50	250.0	ug/Kg	03/15/04	AM
1,2-Dichloroethane	ND	50	250.0	ug/Kg	03/15/04	AM
1,2-Dichloropropane	ND	50	250.0	ug/Kg	03/15/04	AM
1,3,5-Trimethylbenzene	ND	50	250.0	ug/Kg	03/15/04	AM
1,3-Dichlorobenzene	ND	50	250.0	ug/Kg	03/15/04	AM
1,3-Dichloropropane	ND	50	250.0	ug/Kg	03/15/04	AM
1,4-Dichlorobenzene	ND	50	250.0	ug/Kg	03/15/04	AM
1-Chlorohexane	ND	50	250.0	ug/Kg	03/15/04	AM
2,2-Dichloropropane	ND	50	250.0	ug/Kg	03/15/04	AM
2-Butanone (MEK)	ND	50	5000.0	ug/Kg	03/15/04	AM
2-Chloroethyl vinyl ether	ND	50	250.0	ug/Kg	03/15/04	AM
2-Chlorotoluene	ND	50	250.0	ug/Kg	03/15/04	AM
2-Hexanone	ND	50	250.0	ug/Kg	03/15/04	AM
4-Chlorotoluene	ND	50	250.0	ug/Kg	03/15/04	AM
4-Methyl -2- Pentanone	ND	50	250.0	ug/Kg	03/15/04	AM
Acetone	ND	50	2500.0	ug/Kg	03/15/04	AM
Acetonitrile	ND	50	250.0	ug/Kg	03/15/04	AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504426 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS06-2
Date Sampled: 03/09/2004
Time Sampled: 11:26
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Acrolein	ND	50	10000.0	ug/Kg	03/15/04	AM
Acrylonitrile	ND	50	250.0	ug/Kg	03/15/04	AM
Allyl chloride	ND	50	250.0	ug/Kg	03/15/04	AM
Benzene	ND	50	250.0	ug/Kg	03/15/04	AM
Benzyl chloride	ND	50	250.0	ug/Kg	03/15/04	AM
Bromobenzene	ND	50	250.0	ug/Kg	03/15/04	AM
Bromochloromethane	ND	50	250.0	ug/Kg	03/15/04	AM
Bromodichloromethane	ND	50	250.0	ug/Kg	03/15/04	AM
Bromoform	ND	50	250.0	ug/Kg	03/15/04	AM
Bromomethane	ND	50	250.0	ug/Kg	03/15/04	AM
Carbon Disulfide	ND	50	250.0	ug/Kg	03/15/04	AM
Carbon tetrachloride	ND	50	250.0	ug/Kg	03/15/04	AM
Chlorobenzene	ND	50	250.0	ug/Kg	03/15/04	AM
Chloroethane	ND	50	250.0	ug/Kg	03/15/04	AM
Chloroform	ND	50	250.0	ug/Kg	03/15/04	AM
Chloromethane	ND	50	250.0	ug/Kg	03/15/04	AM
cis-1,2-Dichloroethene	ND	50	250.0	ug/Kg	03/15/04	AM
cis-1,3-Dichloropropene	ND	50	250.0	ug/Kg	03/15/04	AM
cis-1,4-Dichloro-2-butene	ND	50	250.0	ug/Kg	03/15/04	AM
Dibromochloromethane	ND	50	250.0	ug/Kg	03/15/04	AM
Dibromomethane	ND	50	250.0	ug/Kg	03/15/04	AM
Dichlorodifluoromethane	ND	50	250.0	ug/Kg	03/15/04	AM
Ethyl benzene	ND	50	250.0	ug/Kg	03/15/04	AM
Ethyl methacrylate	ND	50	250.0	ug/Kg	03/15/04	AM
Hexachlorobutadiene	ND	50	250.0	ug/Kg	03/15/04	AM
Iodomethane	ND	50	250.0	ug/Kg	03/15/04	AM
Isopropylbenzene (Cumene)	ND	50	250.0	ug/Kg	03/15/04	AM
Methacrylonitrile	ND	50	250.0	ug/Kg	03/15/04	AM
Methyl methacrylate	ND	50	250.0	ug/Kg	03/15/04	AM
Methyl-tert-butylether (MTBE)	ND	50	250.0	ug/Kg	03/15/04	AM
Methylene chloride	ND	50	250.0	ug/Kg	03/15/04	AM
n-Butylbenzene	ND	50	250.0	ug/Kg	03/15/04	AM
n-Propylbenzene	ND	50	250.0	ug/Kg	03/15/04	AM
Naphthalene	ND	50	250.0	ug/Kg	03/15/04	AM
p-Isopropyltoluene	ND	50	250.0	ug/Kg	03/15/04	AM
Pentachloroethane	ND	50	250.0	ug/Kg	03/15/04	AM
Propionitrile	ND	50	250.0	ug/Kg	03/15/04	AM
sec-Butylbenzene	ND	50	250.0	ug/Kg	03/15/04	AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504426 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS06-2
Date Sampled: 03/09/2004
Time Sampled: 11:26
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Styrene	ND	50	250.0	ug/Kg	03/15/04	AM
tert-Butylbenzene	ND	50	250.0	ug/Kg	03/15/04	AM
Tetrachloroethene	ND	50	250.0	ug/Kg	03/15/04	AM
Toluene	ND	50	250.0	ug/Kg	03/15/04	AM
trans-1,2-Dichloroethene	ND	50	250.0	ug/Kg	03/15/04	AM
trans-1,3-Dichloropropene	ND	50	250.0	ug/Kg	03/15/04	AM
trans-1,4-Dichloro-2-butene	ND	50	250.0	ug/Kg	03/15/04	AM
Trichloroethene	ND	50	250.0	ug/Kg	03/15/04	AM
Trichlorofluoromethane	ND	50	250.0	ug/Kg	03/15/04	AM
Vinyl acetate	ND	50	2500.0	ug/Kg	03/15/04	AM
Vinyl chloride	ND	50	250.0	ug/Kg	03/15/04	AM
Xylenes, total	ND	50	250.0	ug/Kg	03/15/04	AM
Surrogates				**Units**	**Control Limits**	
Surr1 - Dibromofluoromethane	92			%	70 - 135	
Surr2 - 1,2-Dichloroethane-d4	103			%	70 - 135	
Surr3 - Toluene-d8	102			%	70 - 135	
Surr4 - p-Bromofluorobenzene	101			%	70 - 135	
8270C Acid/Base/Neutral Extractables						
1,2,4-Trichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,2-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,3-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,4-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
2,4,5-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4,6-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dichlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dimethylphenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dinitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2,6-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2-Chloronaphthalene	ND	1	333	ug/Kg	03/14/04	DP
2-Chlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2-Methylnaphthalene	ND	1	333	ug/Kg	03/14/04	DP
2-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
2-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
2-Nitrophenol	ND	1	333	ug/Kg	03/14/04	DP
3,3-Dichlorobenzidine	ND	1	333	ug/Kg	03/14/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504426 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS06-2
Date Sampled: 03/09/2004
Time Sampled: 11:26
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
3-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
3-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4,6-Dinitro-2-methylphenol	ND	1	1665	ug/Kg	03/14/04	DP
4-Bromophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Chloro-3-methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Chloroaniline	ND	1	333	ug/Kg	03/14/04	DP
4-Chlorophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4-Nitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
Acenaphthene	ND	1	333	ug/Kg	03/14/04	DP
Acenaphthylene	ND	1	333	ug/Kg	03/14/04	DP
Anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzidine	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(b)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(g,h,i)perylene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(k)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzoic Acid	ND	1	333	ug/Kg	03/14/04	DP
Benzyl alcohol	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethoxy)methane	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethyl)ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroisopropyl) ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Ethylhexyl)phthalate	ND	1	333	ug/Kg	03/14/04	DP
Butylbenzylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Chrysene	ND	1	333	ug/Kg	03/14/04	DP
Di-n-butylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Di-n-octylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dibenz(a,h)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Dibenzofuran	ND	1	333	ug/Kg	03/14/04	DP
Diethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dimethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Fluorene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobutadiene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorocyclopentadiene	ND	1	333	ug/Kg	03/14/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504426 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS06-2
Date Sampled: 03/09/2004
Time Sampled: 11:26
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
Hexachloroethane	ND	1	333	ug/Kg	03/14/04	DP
Indeno(1,2,3-c,d)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Isophorone	ND	1	333	ug/Kg	03/14/04	DP
N-Nitroso-di-n-propylamine	ND	1	333	ug/Kg	03/14/04	DP
N-Nitrosodiphenylamine	ND	1	333	ug/Kg	03/14/04	DP
Naphthalene	ND	1	333	ug/Kg	03/14/04	DP
Nitrobenzene	ND	1	333	ug/Kg	03/14/04	DP
Pentachlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
Phenanthrene	ND	1	333	ug/Kg	03/14/04	DP
Phenol	ND	1	333	ug/Kg	03/14/04	DP
Pyrene	ND	1	333	ug/Kg	03/14/04	DP
Surrogates				**Units**	**Control Limits**	
2,4,6-Tribromophenol (sur)	74			%	17 - 122	
2-Fluorobiphenyl (sur)	70			%	30 - 115	
2-Fluorophenol (sur)	79			%	25 - 121	
Nitrobenzene-d5 (sur)	67			%	23 - 120	
Phenol-d5 (sur)	88			%	24 - 113	
Terphenyl-d14 (sur)	96			%	18 - 137	

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504427 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS07-2
Date Sampled: 03/09/2004
Time Sampled: 11:35
S ed By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8015 Carbon Chain I						
C06 - C10	6.1	1	3	mg/Kg	03/11/04	AF
C10 - C22	44	1	3	mg/Kg	03/11/04	AF
C22 - C36	23	1	5	mg/Kg	03/11/04	AF
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1,1-Trichloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1,2-Trichloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1-Dichloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1-Dichloroethene	ND	1	5	ug/Kg	03/15/04	AM
1,1-Dichloropropene	ND	1	5	ug/Kg	03/15/04	AM
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1,2,3-Trichloropropane	ND	1	5	ug/Kg	03/15/04	AM
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dibromoethane	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dichloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dichloropropane	ND	1	5	ug/Kg	03/15/04	AM
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	03/15/04	AM
1,3-Dichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1,3-Dichloropropane	ND	1	5	ug/Kg	03/15/04	AM
1,4-Dichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1-Chlorohexane	ND	1	5	ug/Kg	03/15/04	AM
2,2-Dichloropropane	ND	1	5	ug/Kg	03/15/04	AM
2-Butanone (MEK)	ND	1	100	ug/Kg	03/15/04	AM
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	03/15/04	AM
2-Chlorotoluene	ND	1	5	ug/Kg	03/15/04	AM
2-Hexanone	ND	1	5	ug/Kg	03/15/04	AM
4-Chlorotoluene	ND	1	5	ug/Kg	03/15/04	AM
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	03/15/04	AM
Acetone	ND	1	50	ug/Kg	03/15/04	AM
Acetonitrile	ND	1	5	ug/Kg	03/15/04	AM

DL Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504427 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS07-2
Date Sampled: 03/09/2004
Time Sampled: 11:35
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Acrolein	ND	1	200	ug/Kg	03/15/04	AM
Acrylonitrile	ND	1	5	ug/Kg	03/15/04	AM
Allyl chloride	ND	1	5	ug/Kg	03/15/04	AM
Benzene	ND	1	5	ug/Kg	03/15/04	AM
Benzyl chloride	ND	1	5	ug/Kg	03/15/04	AM
Bromobenzene	ND	1	5	ug/Kg	03/15/04	AM
Bromochloromethane	ND	1	5	ug/Kg	03/15/04	AM
Bromodichloromethane	ND	1	5	ug/Kg	03/15/04	AM
Bromoform	ND	1	5	ug/Kg	03/15/04	AM
Bromomethane	ND	1	5	ug/Kg	03/15/04	AM
Carbon Disulfide	ND	1	5	ug/Kg	03/15/04	AM
Carbon tetrachloride	ND	1	5	ug/Kg	03/15/04	AM
Chlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
Chloroethane	ND	1	5	ug/Kg	03/15/04	AM
Chloroform	ND	1	5	ug/Kg	03/15/04	AM
Chloromethane	ND	1	5	ug/Kg	03/15/04	AM
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	03/15/04	AM
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	03/15/04	AM
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/15/04	AM
Dibromochloromethane	ND	1	5	ug/Kg	03/15/04	AM
Dibromomethane	ND	1	5	ug/Kg	03/15/04	AM
Dichlorodifluoromethane	ND	1	5	ug/Kg	03/15/04	AM
Ethyl benzene	ND	1	5	ug/Kg	03/15/04	AM
Ethyl methacrylate	ND	1	5	ug/Kg	03/15/04	AM
Hexachlorobutadiene	ND	1	5	ug/Kg	03/15/04	AM
Iodomethane	ND	1	5	ug/Kg	03/15/04	AM
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	03/15/04	AM
Methacrylonitrile	ND	1	5	ug/Kg	03/15/04	AM
Methyl methacrylate	ND	1	5	ug/Kg	03/15/04	AM
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	03/15/04	AM
Methylene chloride	ND	1	5	ug/Kg	03/15/04	AM
n-Butylbenzene	ND	1	5	ug/Kg	03/15/04	AM
n-Propylbenzene	ND	1	5	ug/Kg	03/15/04	AM
Naphthalene	ND	1	5	ug/Kg	03/15/04	AM
p-Isopropyltoluene	ND	1	5	ug/Kg	03/15/04	AM
Pentachloroethane	ND	1	5	ug/Kg	03/15/04	AM
Propionitrile	ND	1	5	ug/Kg	03/15/04	AM
sec-Butylbenzene	ND	1	5	ug/Kg	03/15/04	AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504427 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS07-2
Date Sampled: 03/09/2004
Time Sampled: 11:35
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Styrene	ND	1	5	ug/Kg	03/15/04	AM
tert-Butylbenzene	ND	1	5	ug/Kg	03/15/04	AM
Tetrachloroethene	ND	1	5	ug/Kg	03/15/04	AM
Toluene	ND	1	5	ug/Kg	03/15/04	AM
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	03/15/04	AM
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	03/15/04	AM
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/15/04	AM
Trichloroethene	ND	1	5	ug/Kg	03/15/04	AM
Trichlorofluoromethane	ND	1	5	ug/Kg	03/15/04	AM
Vinyl acetate	ND	1	50	ug/Kg	03/15/04	AM
Vinyl chloride	ND	1	5	ug/Kg	03/15/04	AM
Xylenes, total	ND	1	5	ug/Kg	03/15/04	AM
Surrogates				**Units**	**Control Limits**	
Surr1 - Dibromofluoromethane	92			%	70 - 135	
Surr2 - 1,2-Dichloroethane-d4	102			%	70 - 135	
Surr3 - Toluene-d8	99			%	70 - 135	
Surr4 - p-Bromofluorobenzene	105			%	70 - 135	
8270C Acid/Base/Neutral Extractables						
1,2,4-Trichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,2-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,3-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,4-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
2,4,5-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4,6-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dichlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dimethylphenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dinitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2,6-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2-Chloronaphthalene	ND	1	333	ug/Kg	03/14/04	DP
2-Chlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2-Methylnaphthalene	ND	1	333	ug/Kg	03/14/04	DP
2-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
2-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
2-Nitrophenol	ND	1	333	ug/Kg	03/14/04	DP
3,3-Dichlorobenzidine	ND	1	333	ug/Kg	03/14/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504427 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS07-2
Date Sampled: 03/09/2004
Time Sampled: 11:35
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
3-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
3-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4,6-Dinitro-2-methylphenol	ND	1	1665	ug/Kg	03/14/04	DP
4-Bromophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Chloro-3-methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Chloroaniline	ND	1	333	ug/Kg	03/14/04	DP
4-Chlorophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4-Nitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
Acenaphthene	ND	1	333	ug/Kg	03/14/04	DP
Acenaphthylene	ND	1	333	ug/Kg	03/14/04	DP
Anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzidine	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(b)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(g,h,i)perylene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(k)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzoic Acid	ND	1	333	ug/Kg	03/14/04	DP
Benzyl alcohol	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethoxy)methane	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethyl)ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroisopropyl) ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Ethylhexyl)phthalate	ND	1	333	ug/Kg	03/14/04	DP
Butylbenzylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Chrysene	ND	1	333	ug/Kg	03/14/04	DP
Di-n-butylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Di-n-octylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dibenz(a,h)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Dibenzofuran	ND	1	333	ug/Kg	03/14/04	DP
Diethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dimethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Fluorene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobutadiene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorocyclopentadiene	ND	1	333	ug/Kg	03/14/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504427 **Client:** BHATE

Matrix: SOLID **Client Sample ID:** F4WSM-CS07-2

Date Sampled: 03/09/2004

Time Sampled: 11:35

S ed By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
Hexachloroethane	ND	1	333	ug/Kg	03/14/04	DP
Indeno(1,2,3-c,d)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Isophorone	ND	1	333	ug/Kg	03/14/04	DP
N-Nitroso-di-n-propylamine	ND	1	333	ug/Kg	03/14/04	DP
N-Nitrosodiphenylamine	ND	1	333	ug/Kg	03/14/04	DP
Naphthalene	ND	1	333	ug/Kg	03/14/04	DP
Nitrobenzene	ND	1	333	ug/Kg	03/14/04	DP
Pentachlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
Phenanthrene	ND	1	333	ug/Kg	03/14/04	DP
Phenol	ND	1	333	ug/Kg	03/14/04	DP
Pyrene	ND	1	333	ug/Kg	03/14/04	DP

Surrogates		Units	Control Limits
2,4,6-Tribromophenol (sur)	82	%	17 - 122
2-Fluorobiphenyl (sur)	75	%	30 - 115
2-Fluorophenol (sur)	91	%	25 - 121
Nitrobenzene-d5 (sur)	75	%	23 - 120
Phenol-d5 (sur)	94	%	24 - 113
Terphenyl-d14 (sur)	92	%	18 - 137

DL Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504428 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS08-2
Date Sampled: 03/09/2004
Time Sampled: 11:45
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8015 Carbon Chain I						
C06 - C10	5.0	1	3	mg/Kg	03/11/04	AF
C10 - C22	3.3	1	3	mg/Kg	03/11/04	AF
C22 - C36	ND	1	5	mg/Kg	03/11/04	AF
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1,1-Trichloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1,2-Trichloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1-Dichloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1-Dichloroethene	ND	1	5	ug/Kg	03/15/04	AM
1,1-Dichloropropene	ND	1	5	ug/Kg	03/15/04	AM
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1,2,3-Trichloropropane	ND	1	5	ug/Kg	03/15/04	AM
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dibromoethane	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dichloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dichloropropane	ND	1	5	ug/Kg	03/15/04	AM
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	03/15/04	AM
1,3-Dichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1,3-Dichloropropane	ND	1	5	ug/Kg	03/15/04	AM
1,4-Dichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1-Chlorohexane	ND	1	5	ug/Kg	03/15/04	AM
2,2-Dichloropropane	ND	1	5	ug/Kg	03/15/04	AM
2-Butanone (MEK)	ND	1	100	ug/Kg	03/15/04	AM
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	03/15/04	AM
2-Chlorotoluene	ND	1	5	ug/Kg	03/15/04	AM
2-Hexanone	ND	1	5	ug/Kg	03/15/04	AM
4-Chlorotoluene	ND	1	5	ug/Kg	03/15/04	AM
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	03/15/04	AM
Acetone	ND	1	50	ug/Kg	03/15/04	AM
Acetonitrile	ND	1	5	ug/Kg	03/15/04	AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504428 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS08-2
Date Sampled: 03/09/2004
Time Sampled: 11:45
S ed By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Acrolein	ND	1	200	ug/Kg	03/15/04	AM
Acrylonitrile	ND	1	5	ug/Kg	03/15/04	AM
Allyl chloride	ND	1	5	ug/Kg	03/15/04	AM
Benzene	ND	1	5	ug/Kg	03/15/04	AM
Benzyl chloride	ND	1	5	ug/Kg	03/15/04	AM
Bromobenzene	ND	1	5	ug/Kg	03/15/04	AM
Bromochloromethane	ND	1	5	ug/Kg	03/15/04	AM
Bromodichloromethane	ND	1	5	ug/Kg	03/15/04	AM
Bromoform	ND	1	5	ug/Kg	03/15/04	AM
Bromomethane	ND	1	5	ug/Kg	03/15/04	AM
Carbon Disulfide	ND	1	5	ug/Kg	03/15/04	AM
Carbon tetrachloride	ND	1	5	ug/Kg	03/15/04	AM
Chlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
Chloroethane	ND	1	5	ug/Kg	03/15/04	AM
Chloroform	ND	1	5	ug/Kg	03/15/04	AM
Chloromethane	ND	1	5	ug/Kg	03/15/04	AM
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	03/15/04	AM
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	03/15/04	AM
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/15/04	AM
Dibromochloromethane	ND	1	5	ug/Kg	03/15/04	AM
Dibromomethane	ND	1	5	ug/Kg	03/15/04	AM
Dichlorodifluoromethane	ND	1	5	ug/Kg	03/15/04	AM
Ethyl benzene	ND	1	5	ug/Kg	03/15/04	AM
Ethyl methacrylate	ND	1	5	ug/Kg	03/15/04	AM
Hexachlorobutadiene	ND	1	5	ug/Kg	03/15/04	AM
Iodomethane	ND	1	5	ug/Kg	03/15/04	AM
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	03/15/04	AM
Methacrylonitrile	ND	1	5	ug/Kg	03/15/04	AM
Methyl methacrylate	ND	1	5	ug/Kg	03/15/04	AM
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	03/15/04	AM
Methylene chloride	ND	1	5	ug/Kg	03/15/04	AM
n-Butylbenzene	ND	1	5	ug/Kg	03/15/04	AM
n-Propylbenzene	ND	1	5	ug/Kg	03/15/04	AM
Naphthalene	ND	1	5	ug/Kg	03/15/04	AM
p-Isopropyltoluene	ND	1	5	ug/Kg	03/15/04	AM
Pentachloroethane	ND	1	5	ug/Kg	03/15/04	AM
Propionitrile	ND	1	5	ug/Kg	03/15/04	AM
sec-Butylbenzene	ND	1	5	ug/Kg	03/15/04	AM

DL Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504428 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS08-2
Date Sampled: 03/09/2004
Time Sampled: 11:45
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Styrene	ND	1	5	ug/Kg	03/15/04	AM
tert-Butylbenzene	ND	1	5	ug/Kg	03/15/04	AM
Tetrachloroethene	ND	1	5	ug/Kg	03/15/04	AM
Toluene	ND	1	5	ug/Kg	03/15/04	AM
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	03/15/04	AM
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	03/15/04	AM
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/15/04	AM
Trichloroethene	ND	1	5	ug/Kg	03/15/04	AM
Trichlorofluoromethane	ND	1	5	ug/Kg	03/15/04	AM
Vinyl acetate	ND	1	50	ug/Kg	03/15/04	AM
Vinyl chloride	ND	1	5	ug/Kg	03/15/04	AM
Xylenes, total	ND	1	5	ug/Kg	03/15/04	AM
Surrogates				**Units**	**Control Limits**	
Surr1 - Dibromofluoromethane	93			%	70 - 135	
Surr2 - 1,2-Dichloroethane-d4	107			%	70 - 135	
Surr3 - Toluene-d8	101			%	70 - 135	
Surr4 - p-Bromofluorobenzene	105			%	70 - 135	

8270C Acid/Base/Neutral Extractables

1,2,4-Trichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,2-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,3-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,4-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
2,4,5-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4,6-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dichlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dimethylphenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dinitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2,6-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2-Chloronaphthalene	ND	1	333	ug/Kg	03/14/04	DP
2-Chlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2-Methylnaphthalene	ND	1	333	ug/Kg	03/14/04	DP
2-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
2-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
2-Nitrophenol	ND	1	333	ug/Kg	03/14/04	DP
3,3-Dichlorobenzidine	ND	1	333	ug/Kg	03/14/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504428 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS08-2
Date Sampled: 03/09/2004
Time Sampled: 11:45
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
3-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
3-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4,6-Dinitro-2-methylphenol	ND	1	1665	ug/Kg	03/14/04	DP
4-Bromophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Chloro-3-methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Chloroaniline	ND	1	333	ug/Kg	03/14/04	DP
4-Chlorophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4-Nitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
Acenaphthene	ND	1	333	ug/Kg	03/14/04	DP
Acenaphthylene	ND	1	333	ug/Kg	03/14/04	DP
Anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzidine	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(b)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(g,h,i)perylene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(k)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzoic Acid	ND	1	333	ug/Kg	03/14/04	DP
Benzyl alcohol	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethoxy)methane	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethyl)ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroisopropyl) ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Ethylhexyl)phthalate	ND	1	333	ug/Kg	03/14/04	DP
Butylbenzylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Chrysene	ND	1	333	ug/Kg	03/14/04	DP
Di-n-butylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Di-n-octylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dibenz(a,h)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Dibenzofuran	ND	1	333	ug/Kg	03/14/04	DP
Diethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dimethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Fluorene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobutadiene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorocyclopentadiene	ND	1	333	ug/Kg	03/14/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504428 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS08-2
Date Sampled: 03/09/2004
Time Sampled: 11:45
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
Hexachloroethane	ND	1	333	ug/Kg	03/14/04	DP
Indeno(1,2,3-c,d)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Isophorone	ND	1	333	ug/Kg	03/14/04	DP
N-Nitroso-di-n-propylamine	ND	1	333	ug/Kg	03/14/04	DP
N-Nitrosodiphenylamine	ND	1	333	ug/Kg	03/14/04	DP
Naphthalene	ND	1	333	ug/Kg	03/14/04	DP
Nitrobenzene	ND	1	333	ug/Kg	03/14/04	DP
Pentachlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
Phenanthrene	ND	1	333	ug/Kg	03/14/04	DP
Phenol	ND	1	333	ug/Kg	03/14/04	DP
Pyrene	ND	1	333	ug/Kg	03/14/04	DP

Surrogates		**Units**	**Control Limits**
2,4,6-Tribromophenol (sur)	67	%	17 - 122
2-Fluorobiphenyl (sur)	60	%	30 - 115
2-Fluorophenol (sur)	73	%	25 - 121
Nitrobenzene-d5 (sur)	64	%	23 - 120
Phenol-d5 (sur)	78	%	24 - 113
Terphenyl-d14 (sur)	99	%	18 - 137

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504429 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS09-2
Date Sampled: 03/09/2004
Time Sampled: 11:56
S ed By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8015 Carbon Chain I						
C06 - C10	5.0	1	3	mg/Kg	03/11/04	AF
C10 - C22	ND	1	3	mg/Kg	03/11/04	AF
C22 - C36	ND	1	5	mg/Kg	03/11/04	AF
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1,1-Trichloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1,2-Trichloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1-Dichloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1-Dichloroethene	ND	1	5	ug/Kg	03/15/04	AM
1,1-Dichloropropene	ND	1	5	ug/Kg	03/15/04	AM
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1,2,3-Trichloropropane	ND	1	5	ug/Kg	03/15/04	AM
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dibromoethane	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dichloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dichloropropane	ND	1	5	ug/Kg	03/15/04	AM
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	03/15/04	AM
1,3-Dichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1,3-Dichloropropane	ND	1	5	ug/Kg	03/15/04	AM
1,4-Dichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1-Chlorohexane	ND	1	5	ug/Kg	03/15/04	AM
2,2-Dichloropropane	ND	1	5	ug/Kg	03/15/04	AM
2-Butanone (MEK)	ND	1	100	ug/Kg	03/15/04	AM
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	03/15/04	AM
2-Chlorotoluene	ND	1	5	ug/Kg	03/15/04	AM
2-Hexanone	ND	1	5	ug/Kg	03/15/04	AM
4-Chlorotoluene	ND	1	5	ug/Kg	03/15/04	AM
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	03/15/04	AM
Acetone	ND	1	50	ug/Kg	03/15/04	AM
Acetonitrile	ND	1	5	ug/Kg	03/15/04	AM

DL Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504429 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS09-2
Date Sampled: 03/09/2004
Time Sampled: 11:56
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Acrolein	ND	1	200	ug/Kg	03/15/04	AM
Acrylonitrile	ND	1	5	ug/Kg	03/15/04	AM
Allyl chloride	ND	1	5	ug/Kg	03/15/04	AM
Benzene	ND	1	5	ug/Kg	03/15/04	AM
Benzyl chloride	ND	1	5	ug/Kg	03/15/04	AM
Bromobenzene	ND	1	5	ug/Kg	03/15/04	AM
Bromochloromethane	ND	1	5	ug/Kg	03/15/04	AM
Bromodichloromethane	ND	1	5	ug/Kg	03/15/04	AM
Bromoform	ND	1	5	ug/Kg	03/15/04	AM
Bromomethane	ND	1	5	ug/Kg	03/15/04	AM
Carbon Disulfide	ND	1	5	ug/Kg	03/15/04	AM
Carbon tetrachloride	ND	1	5	ug/Kg	03/15/04	AM
Chlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
Chloroethane	ND	1	5	ug/Kg	03/15/04	AM
Chloroform	ND	1	5	ug/Kg	03/15/04	AM
Chloromethane	ND	1	5	ug/Kg	03/15/04	AM
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	03/15/04	AM
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	03/15/04	AM
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/15/04	AM
Dibromochloromethane	ND	1	5	ug/Kg	03/15/04	AM
Dibromomethane	ND	1	5	ug/Kg	03/15/04	AM
Dichlorodifluoromethane	ND	1	5	ug/Kg	03/15/04	AM
Ethyl benzene	ND	1	5	ug/Kg	03/15/04	AM
Ethyl methacrylate	ND	1	5	ug/Kg	03/15/04	AM
Hexachlorobutadiene	ND	1	5	ug/Kg	03/15/04	AM
Iodomethane	ND	1	5	ug/Kg	03/15/04	AM
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	03/15/04	AM
Methacrylonitrile	ND	1	5	ug/Kg	03/15/04	AM
Methyl methacrylate	ND	1	5	ug/Kg	03/15/04	AM
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	03/15/04	AM
Methylene chloride	ND	1	5	ug/Kg	03/15/04	AM
n-Butylbenzene	ND	1	5	ug/Kg	03/15/04	AM
n-Propylbenzene	ND	1	5	ug/Kg	03/15/04	AM
Naphthalene	ND	1	5	ug/Kg	03/15/04	AM
p-Isopropyltoluene	ND	1	5	ug/Kg	03/15/04	AM
Pentachloroethane	ND	1	5	ug/Kg	03/15/04	AM
Propionitrile	ND	1	5	ug/Kg	03/15/04	AM
sec-Butylbenzene	ND	1	5	ug/Kg	03/15/04	AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504429 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS09-2
Date Sampled: 03/09/2004
Time Sampled: 11:56
S[illegible]ed By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Styrene	ND	1	5	ug/Kg	03/15/04	AM
tert-Butylbenzene	ND	1	5	ug/Kg	03/15/04	AM
Tetrachloroethene	ND	1	5	ug/Kg	03/15/04	AM
Toluene	ND	1	5	ug/Kg	03/15/04	AM
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	03/15/04	AM
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	03/15/04	AM
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/15/04	AM
Trichloroethene	ND	1	5	ug/Kg	03/15/04	AM
Trichlorofluoromethane	ND	1	5	ug/Kg	03/15/04	AM
Vinyl acetate	ND	1	50	ug/Kg	03/15/04	AM
Vinyl chloride	ND	1	5	ug/Kg	03/15/04	AM
Xylenes, total	ND	1	5	ug/Kg	03/15/04	AM
Surrogates				**Units**	**Control Limits**	
Surr1 - Dibromofluoromethane	91			%	70 - 135	
Surr2 - 1,2-Dichloroethane-d4	108			%	70 - 135	
Surr3 - Toluene-d8	103			%	70 - 135	
Surr4 - p-Bromofluorobenzene	103			%	70 - 135	
82[illegible] Acid/Base/Neutral Extractables						
1,2,4-Trichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,2-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,3-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,4-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
2,4,5-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4,6-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dichlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dimethylphenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dinitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2,6-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2-Chloronaphthalene	ND	1	333	ug/Kg	03/14/04	DP
2-Chlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2-Methylnaphthalene	ND	1	333	ug/Kg	03/14/04	DP
2-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
2-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
2-Nitrophenol	ND	1	333	ug/Kg	03/14/04	DP
3,3-Dichlorobenzidine	ND	1	333	ug/Kg	03/14/04	DP

DL[illegible] Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504429 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS09-2
Date Sampled: 03/09/2004
Time Sampled: 11:56
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
3-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
3-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4,6-Dinitro-2-methylphenol	ND	1	1665	ug/Kg	03/14/04	DP
4-Bromophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Chloro-3-methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Chloroaniline	ND	1	333	ug/Kg	03/14/04	DP
4-Chlorophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4-Nitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
Acenaphthene	ND	1	333	ug/Kg	03/14/04	DP
Acenaphthylene	ND	1	333	ug/Kg	03/14/04	DP
Anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzidine	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(b)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(g,h,i)perylene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(k)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzoic Acid	ND	1	333	ug/Kg	03/14/04	DP
Benzyl alcohol	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethoxy)methane	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethyl)ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroisopropyl) ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Ethylhexyl)phthalate	ND	1	333	ug/Kg	03/14/04	DP
Butylbenzylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Chrysene	ND	1	333	ug/Kg	03/14/04	DP
Di-n-butylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Di-n-octylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dibenz(a,h)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Dibenzofuran	ND	1	333	ug/Kg	03/14/04	DP
Diethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dimethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Fluorene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobutadiene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorocyclopentadiene	ND	1	333	ug/Kg	03/14/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504429 **Client:** BHATE

Matrix: SOLID **Client Sample ID:** F4WSM-CS09-2

Date Sampled: 03/09/2004

Time Sampled: 11:56

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
Hexachloroethane	ND	1	333	ug/Kg	03/14/04	DP
Indeno(1,2,3-c,d)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Isophorone	ND	1	333	ug/Kg	03/14/04	DP
N-Nitroso-di-n-propylamine	ND	1	333	ug/Kg	03/14/04	DP
N-Nitrosodiphenylamine	ND	1	333	ug/Kg	03/14/04	DP
Naphthalene	ND	1	333	ug/Kg	03/14/04	DP
Nitrobenzene	ND	1	333	ug/Kg	03/14/04	DP
Pentachlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
Phenanthrene	ND	1	333	ug/Kg	03/14/04	DP
Phenol	ND	1	333	ug/Kg	03/14/04	DP
Pyrene	ND	1	333	ug/Kg	03/14/04	DP

Surrogates		Units	Control Limits
2,4,6-Tribromophenol (sur)	69	%	17 - 122
2-Fluorobiphenyl (sur)	57	%	30 - 115
2-Fluorophenol (sur)	72	%	25 - 121
Nitrobenzene-d5 (sur)	58	%	23 - 120
Phenol-d5 (sur)	73	%	24 - 113
Terphenyl-d14 (sur)	94	%	18 - 137

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504430 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS10-2
Date Sampled: 03/09/2004
Time Sampled: 12:05
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8015 Carbon Chain I						
C06 - C10	ND	1	3	mg/Kg	03/11/04	AF
C10 - C22	ND	1	3	mg/Kg	03/11/04	AF
C22 - C36	ND	1	5	mg/Kg	03/11/04	AF
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1,1-Trichloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1,2-Trichloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1-Dichloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1-Dichloroethene	ND	1	5	ug/Kg	03/15/04	AM
1,1-Dichloropropene	ND	1	5	ug/Kg	03/15/04	AM
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1,2,3-Trichloropropane	ND	1	5	ug/Kg	03/15/04	AM
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dibromoethane	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dichloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dichloropropane	ND	1	5	ug/Kg	03/15/04	AM
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	03/15/04	AM
1,3-Dichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1,3-Dichloropropane	ND	1	5	ug/Kg	03/15/04	AM
1,4-Dichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1-Chlorohexane	ND	1	5	ug/Kg	03/15/04	AM
2,2-Dichloropropane	ND	1	5	ug/Kg	03/15/04	AM
2-Butanone (MEK)	ND	1	100	ug/Kg	03/15/04	AM
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	03/15/04	AM
2-Chlorotoluene	ND	1	5	ug/Kg	03/15/04	AM
2-Hexanone	ND	1	5	ug/Kg	03/15/04	AM
4-Chlorotoluene	ND	1	5	ug/Kg	03/15/04	AM
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	03/15/04	AM
Acetone	ND	1	50	ug/Kg	03/15/04	AM
Acetonitrile	ND	1	5	ug/Kg	03/15/04	AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504430 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS10-2
Date Sampled: 03/09/2004
Time Sampled: 12:05
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Acrolein	ND	1	200	ug/Kg	03/15/04	AM
Acrylonitrile	ND	1	5	ug/Kg	03/15/04	AM
Allyl chloride	ND	1	5	ug/Kg	03/15/04	AM
Benzene	ND	1	5	ug/Kg	03/15/04	AM
Benzyl chloride	ND	1	5	ug/Kg	03/15/04	AM
Bromobenzene	ND	1	5	ug/Kg	03/15/04	AM
Bromochloromethane	ND	1	5	ug/Kg	03/15/04	AM
Bromodichloromethane	ND	1	5	ug/Kg	03/15/04	AM
Bromoform	ND	1	5	ug/Kg	03/15/04	AM
Bromomethane	ND	1	5	ug/Kg	03/15/04	AM
Carbon Disulfide	ND	1	5	ug/Kg	03/15/04	AM
Carbon tetrachloride	ND	1	5	ug/Kg	03/15/04	AM
Chlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
Chloroethane	ND	1	5	ug/Kg	03/15/04	AM
Chloroform	ND	1	5	ug/Kg	03/15/04	AM
Chloromethane	ND	1	5	ug/Kg	03/15/04	AM
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	03/15/04	AM
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	03/15/04	AM
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/15/04	AM
Dibromochloromethane	ND	1	5	ug/Kg	03/15/04	AM
Dibromomethane	ND	1	5	ug/Kg	03/15/04	AM
Dichlorodifluoromethane	ND	1	5	ug/Kg	03/15/04	AM
Ethyl benzene	ND	1	5	ug/Kg	03/15/04	AM
Ethyl methacrylate	ND	1	5	ug/Kg	03/15/04	AM
Hexachlorobutadiene	ND	1	5	ug/Kg	03/15/04	AM
Iodomethane	ND	1	5	ug/Kg	03/15/04	AM
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	03/15/04	AM
Methacrylonitrile	ND	1	5	ug/Kg	03/15/04	AM
Methyl methacrylate	ND	1	5	ug/Kg	03/15/04	AM
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	03/15/04	AM
Methylene chloride	ND	1	5	ug/Kg	03/15/04	AM
n-Butylbenzene	ND	1	5	ug/Kg	03/15/04	AM
n-Propylbenzene	ND	1	5	ug/Kg	03/15/04	AM
Naphthalene	ND	1	5	ug/Kg	03/15/04	AM
p-Isopropyltoluene	ND	1	5	ug/Kg	03/15/04	AM
Pentachloroethane	ND	1	5	ug/Kg	03/15/04	AM
Propionitrile	ND	1	5	ug/Kg	03/15/04	AM
sec-Butylbenzene	ND	1	5	ug/Kg	03/15/04	AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504430 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS10-2
Date Sampled: 03/09/2004
Time Sampled: 12:05
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Styrene	ND	1	5	ug/Kg	03/15/04	AM
tert-Butylbenzene	ND	1	5	ug/Kg	03/15/04	AM
Tetrachloroethene	ND	1	5	ug/Kg	03/15/04	AM
Toluene	ND	1	5	ug/Kg	03/15/04	AM
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	03/15/04	AM
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	03/15/04	AM
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/15/04	AM
Trichloroethene	ND	1	5	ug/Kg	03/15/04	AM
Trichlorofluoromethane	ND	1	5	ug/Kg	03/15/04	AM
Vinyl acetate	ND	1	50	ug/Kg	03/15/04	AM
Vinyl chloride	ND	1	5	ug/Kg	03/15/04	AM
Xylenes, total	ND	1	5	ug/Kg	03/15/04	AM
Surrogates				**Units**	**Control Limits**	
Surr1 - Dibromofluoromethane	91			%	70 - 135	
Surr2 - 1,2-Dichloroethane-d4	105			%	70 - 135	
Surr3 - Toluene-d8	99			%	70 - 135	
Surr4 - p-Bromofluorobenzene	106			%	70 - 135	
8270C Acid/Base/Neutral Extractables						
1,2,4-Trichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,2-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,3-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,4-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
2,4,5-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4,6-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dichlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dimethylphenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dinitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2,6-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2-Chloronaphthalene	ND	1	333	ug/Kg	03/14/04	DP
2-Chlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2-Methylnaphthalene	ND	1	333	ug/Kg	03/14/04	DP
2-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
2-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
2-Nitrophenol	ND	1	333	ug/Kg	03/14/04	DP
3,3-Dichlorobenzidine	ND	1	333	ug/Kg	03/14/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504430 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS10-2
Date Sampled: 03/09/2004
Time Sampled: 12:05
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
3-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
3-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4,6-Dinitro-2-methylphenol	ND	1	1665	ug/Kg	03/14/04	DP
4-Bromophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Chloro-3-methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Chloroaniline	ND	1	333	ug/Kg	03/14/04	DP
4-Chlorophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4-Nitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
Acenaphthene	ND	1	333	ug/Kg	03/14/04	DP
Acenaphthylene	ND	1	333	ug/Kg	03/14/04	DP
Anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzidine	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(b)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(g,h,i)perylene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(k)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzoic Acid	ND	1	333	ug/Kg	03/14/04	DP
Benzyl alcohol	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethoxy)methane	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethyl)ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroisopropyl) ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Ethylhexyl)phthalate	ND	1	333	ug/Kg	03/14/04	DP
Butylbenzylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Chrysene	ND	1	333	ug/Kg	03/14/04	DP
Di-n-butylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Di-n-octylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dibenz(a,h)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Dibenzofuran	ND	1	333	ug/Kg	03/14/04	DP
Diethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dimethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Fluorene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobutadiene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorocyclopentadiene	ND	1	333	ug/Kg	03/14/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504430 **Client:** BHATE

Matrix: SOLID **Client Sample ID:** F4WSM-CS10-2

Date Sampled: 03/09/2004

Time Sampled: 12:05

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
Hexachloroethane	ND	1	333	ug/Kg	03/14/04	DP
Indeno(1,2,3-c,d)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Isophorone	ND	1	333	ug/Kg	03/14/04	DP
N-Nitroso-di-n-propylamine	ND	1	333	ug/Kg	03/14/04	DP
N-Nitrosodiphenylamine	ND	1	333	ug/Kg	03/14/04	DP
Naphthalene	ND	1	333	ug/Kg	03/14/04	DP
Nitrobenzene	ND	1	333	ug/Kg	03/14/04	DP
Pentachlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
Phenanthrene	ND	1	333	ug/Kg	03/14/04	DP
Phenol	ND	1	333	ug/Kg	03/14/04	DP
Pyrene	ND	1	333	ug/Kg	03/14/04	DP
Surrogates				**Units**	**Control Limits**	
2,4,6-Tribromophenol (sur)	75			%	17 - 122	
2-Fluorobiphenyl (sur)	55			%	30 - 115	
2-Fluorophenol (sur)	64			%	25 - 121	
Nitrobenzene-d5 (sur)	57			%	23 - 120	
Phenol-d5 (sur)	68			%	24 - 113	
Terphenyl-d14 (sur)	94			%	18 - 137	

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504431 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS11-2
Date Sampled: 03/09/2004
Time Sampled: 12:15
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8015 Carbon Chain I						
C06 - C10	5.3	1	3	mg/Kg	03/11/04	AF
C10 - C22	15	1	3	mg/Kg	03/11/04	AF
C22 - C36	ND	1	5	mg/Kg	03/11/04	AF
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1,1-Trichloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1,2-Trichloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1-Dichloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1-Dichloroethene	ND	1	5	ug/Kg	03/15/04	AM
1,1-Dichloropropene	ND	1	5	ug/Kg	03/15/04	AM
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1,2,3-Trichloropropane	ND	1	5	ug/Kg	03/15/04	AM
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dibromoethane	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dichloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dichloropropane	ND	1	5	ug/Kg	03/15/04	AM
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	03/15/04	AM
1,3-Dichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1,3-Dichloropropane	ND	1	5	ug/Kg	03/15/04	AM
1,4-Dichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1-Chlorohexane	ND	1	5	ug/Kg	03/15/04	AM
2,2-Dichloropropane	ND	1	5	ug/Kg	03/15/04	AM
2-Butanone (MEK)	ND	1	100	ug/Kg	03/15/04	AM
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	03/15/04	AM
2-Chlorotoluene	ND	1	5	ug/Kg	03/15/04	AM
2-Hexanone	ND	1	5	ug/Kg	03/15/04	AM
4-Chlorotoluene	ND	1	5	ug/Kg	03/15/04	AM
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	03/15/04	AM
Acetone	ND	1	50	ug/Kg	03/15/04	AM
Acetonitrile	ND	1	5	ug/Kg	03/15/04	AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504431 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS11-2
Date Sampled: 03/09/2004
Time Sampled: 12:15
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Acrolein	ND	1	200	ug/Kg	03/15/04	AM
Acrylonitrile	ND	1	5	ug/Kg	03/15/04	AM
Allyl chloride	ND	1	5	ug/Kg	03/15/04	AM
Benzene	ND	1	5	ug/Kg	03/15/04	AM
Benzyl chloride	ND	1	5	ug/Kg	03/15/04	AM
Bromobenzene	ND	1	5	ug/Kg	03/15/04	AM
Bromochloromethane	ND	1	5	ug/Kg	03/15/04	AM
Bromodichloromethane	ND	1	5	ug/Kg	03/15/04	AM
Bromoform	ND	1	5	ug/Kg	03/15/04	AM
Bromomethane	ND	1	5	ug/Kg	03/15/04	AM
Carbon Disulfide	ND	1	5	ug/Kg	03/15/04	AM
Carbon tetrachloride	ND	1	5	ug/Kg	03/15/04	AM
Chlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
Chloroethane	ND	1	5	ug/Kg	03/15/04	AM
Chloroform	ND	1	5	ug/Kg	03/15/04	AM
Chloromethane	ND	1	5	ug/Kg	03/15/04	AM
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	03/15/04	AM
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	03/15/04	AM
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/15/04	AM
Dibromochloromethane	ND	1	5	ug/Kg	03/15/04	AM
Dibromomethane	ND	1	5	ug/Kg	03/15/04	AM
Dichlorodifluoromethane	ND	1	5	ug/Kg	03/15/04	AM
Ethyl benzene	ND	1	5	ug/Kg	03/15/04	AM
Ethyl methacrylate	ND	1	5	ug/Kg	03/15/04	AM
Hexachlorobutadiene	ND	1	5	ug/Kg	03/15/04	AM
Iodomethane	ND	1	5	ug/Kg	03/15/04	AM
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	03/15/04	AM
Methacrylonitrile	ND	1	5	ug/Kg	03/15/04	AM
Methyl methacrylate	ND	1	5	ug/Kg	03/15/04	AM
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	03/15/04	AM
Methylene chloride	ND	1	5	ug/Kg	03/15/04	AM
n-Butylbenzene	ND	1	5	ug/Kg	03/15/04	AM
n-Propylbenzene	ND	1	5	ug/Kg	03/15/04	AM
Naphthalene	ND	1	5	ug/Kg	03/15/04	AM
p-Isopropyltoluene	9.3	1	5	ug/Kg	03/15/04	AM
Pentachloroethane	ND	1	5	ug/Kg	03/15/04	AM
Propionitrile	ND	1	5	ug/Kg	03/15/04	AM
sec-Butylbenzene	ND	1	5	ug/Kg	03/15/04	AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504431 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS11-2
Date Sampled: 03/09/2004
Time Sampled: 12:15
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Styrene	ND	1	5	ug/Kg	03/15/04	AM
tert-Butylbenzene	ND	1	5	ug/Kg	03/15/04	AM
Tetrachloroethene	ND	1	5	ug/Kg	03/15/04	AM
Toluene	ND	1	5	ug/Kg	03/15/04	AM
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	03/15/04	AM
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	03/15/04	AM
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/15/04	AM
Trichloroethene	ND	1	5	ug/Kg	03/15/04	AM
Trichlorofluoromethane	ND	1	5	ug/Kg	03/15/04	AM
Vinyl acetate	ND	1	50	ug/Kg	03/15/04	AM
Vinyl chloride	ND	1	5	ug/Kg	03/15/04	AM
Xylenes, total	ND	1	5	ug/Kg	03/15/04	AM
Surrogates				**Units**	**Control Limits**	
Surr1 - Dibromofluoromethane	92			%	70 - 135	
Surr2 - 1,2-Dichloroethane-d4	111			%	70 - 135	
Surr3 - Toluene-d8	98			%	70 - 135	
Surr4 - p-Bromofluorobenzene	103			%	70 - 135	
8270C Acid/Base/Neutral Extractables						
1,2,4-Trichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,2-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,3-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,4-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
2,4,5-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4,6-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dichlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dimethylphenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dinitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2,6-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2-Chloronaphthalene	ND	1	333	ug/Kg	03/14/04	DP
2-Chlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2-Methylnaphthalene	ND	1	333	ug/Kg	03/14/04	DP
2-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
2-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
2-Nitrophenol	ND	1	333	ug/Kg	03/14/04	DP
3,3-Dichlorobenzidine	ND	1	333	ug/Kg	03/14/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504431 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS11-2
Date Sampled: 03/09/2004
Time Sampled: 12:15
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
3-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
3-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4,6-Dinitro-2-methylphenol	ND	1	1665	ug/Kg	03/14/04	DP
4-Bromophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Chloro-3-methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Chloroaniline	ND	1	333	ug/Kg	03/14/04	DP
4-Chlorophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4-Nitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
Acenaphthene	ND	1	333	ug/Kg	03/14/04	DP
Acenaphthylene	ND	1	333	ug/Kg	03/14/04	DP
Anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzidine	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(b)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(g,h,i)perylene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(k)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzoic Acid	ND	1	333	ug/Kg	03/14/04	DP
Benzyl alcohol	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethoxy)methane	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethyl)ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroisopropyl) ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Ethylhexyl)phthalate	ND	1	333	ug/Kg	03/14/04	DP
Butylbenzylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Chrysene	ND	1	333	ug/Kg	03/14/04	DP
Di-n-butylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Di-n-octylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dibenz(a,h)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Dibenzofuran	ND	1	333	ug/Kg	03/14/04	DP
Diethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dimethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Fluorene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobutadiene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorocyclopentadiene	ND	1	333	ug/Kg	03/14/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504431 **Client:** BHATE

Matrix: SOLID **Client Sample ID:** F4WSM-CS11-2

Date Sampled: 03/09/2004

Time Sampled: 12:15

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
Hexachloroethane	ND	1	333	ug/Kg	03/14/04	DP
Indeno(1,2,3-c,d)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Isophorone	ND	1	333	ug/Kg	03/14/04	DP
N-Nitroso-di-n-propylamine	ND	1	333	ug/Kg	03/14/04	DP
N-Nitrosodiphenylamine	ND	1	333	ug/Kg	03/14/04	DP
Naphthalene	ND	1	333	ug/Kg	03/14/04	DP
Nitrobenzene	ND	1	333	ug/Kg	03/14/04	DP
Pentachlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
Phenanthrene	ND	1	333	ug/Kg	03/14/04	DP
Phenol	ND	1	333	ug/Kg	03/14/04	DP
Pyrene	ND	1	333	ug/Kg	03/14/04	DP

Surrogates		Units	Control Limits
2,4,6-Tribromophenol (sur)	75	%	17 - 122
2-Fluorobiphenyl (sur)	59	%	30 - 115
2-Fluorophenol (sur)	51	%	25 - 121
Nitrobenzene-d5 (sur)	46	%	23 - 120
Phenol-d5 (sur)	60	%	24 - 113
Terphenyl-d14 (sur)	93	%	18 - 137

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504432 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS12-2
Date Sampled: 03/09/2004
Time Sampled: 12:18
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8015 Carbon Chain I						
C06 - C10	2010	50	150.0	mg/Kg	03/11/04	AF
C10 - C22	1720	50	150.0	mg/Kg	03/11/04	AF
C22 - C36	214	10	50.0	mg/Kg	03/11/04	AF
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	100	500.0	ug/Kg	03/12/04	AM
1,1,1-Trichloroethane	ND	100	500.0	ug/Kg	03/12/04	AM
1,1,2,2-Tetrachloroethane	ND	100	500.0	ug/Kg	03/12/04	AM
1,1,2-Trichloroethane	ND	100	500.0	ug/Kg	03/12/04	AM
1,1,2-Trichlorotrifluoroethane	ND	100	500.0	ug/Kg	03/12/04	AM
1,1-Dichloroethane	ND	100	500.0	ug/Kg	03/12/04	AM
1,1-Dichloroethene	ND	100	500.0	ug/Kg	03/12/04	AM
1,1-Dichloropropene	ND	100	500.0	ug/Kg	03/12/04	AM
1,2,3-Trichlorobenzene	ND	100	500.0	ug/Kg	03/12/04	AM
1,2,3-Trichloropropane	ND	100	500.0	ug/Kg	03/12/04	AM
1,2,4-Trichlorobenzene	ND	100	500.0	ug/Kg	03/12/04	AM
1,2,4-Trimethylbenzene	36700	100	500.0	ug/Kg	03/12/04	AM
1,2-Dibromo-3-chloropropane	ND	100	500.0	ug/Kg	03/12/04	AM
1,2-Dibromoethane	ND	100	500.0	ug/Kg	03/12/04	AM
1,2-Dichlorobenzene	ND	100	500.0	ug/Kg	03/12/04	AM
1,2-Dichloroethane	ND	100	500.0	ug/Kg	03/12/04	AM
1,2-Dichloropropane	ND	100	500.0	ug/Kg	03/12/04	AM
1,3,5-Trimethylbenzene	8070	100	500.0	ug/Kg	03/12/04	AM
1,3-Dichlorobenzene	ND	100	500.0	ug/Kg	03/12/04	AM
1,3-Dichloropropane	ND	100	500.0	ug/Kg	03/12/04	AM
1,4-Dichlorobenzene	ND	100	500.0	ug/Kg	03/12/04	AM
1-Chlorohexane	ND	100	500.0	ug/Kg	03/12/04	AM
2,2-Dichloropropane	ND	100	500.0	ug/Kg	03/12/04	AM
2-Butanone (MEK)	ND	100	10000.0	ug/Kg	03/12/04	AM
2-Chloroethyl vinyl ether	ND	100	500.0	ug/Kg	03/12/04	AM
2-Chlorotoluene	ND	100	500.0	ug/Kg	03/12/04	AM
2-Hexanone	ND	100	500.0	ug/Kg	03/12/04	AM
4-Chlorotoluene	ND	100	500.0	ug/Kg	03/12/04	AM
4-Methyl -2- Pentanone	ND	100	500.0	ug/Kg	03/12/04	AM
Acetone	ND	100	5000.0	ug/Kg	03/12/04	AM
Acetonitrile	ND	100	500.0	ug/Kg	03/12/04	AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504432 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS12-2
Date Sampled: 03/09/2004
Time Sampled: 12:18
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Acrolein	ND	100	20000.0	ug/Kg	03/12/04	AM
Acrylonitrile	ND	100	500.0	ug/Kg	03/12/04	AM
Allyl chloride	ND	100	500.0	ug/Kg	03/12/04	AM
Benzene	ND	100	500.0	ug/Kg	03/12/04	AM
Benzyl chloride	ND	100	500.0	ug/Kg	03/12/04	AM
Bromobenzene	ND	100	500.0	ug/Kg	03/12/04	AM
Bromochloromethane	ND	100	500.0	ug/Kg	03/12/04	AM
Bromodichloromethane	ND	100	500.0	ug/Kg	03/12/04	AM
Bromoform	ND	100	500.0	ug/Kg	03/12/04	AM
Bromomethane	ND	100	500.0	ug/Kg	03/12/04	AM
Carbon Disulfide	ND	100	500.0	ug/Kg	03/12/04	AM
Carbon tetrachloride	ND	100	500.0	ug/Kg	03/12/04	AM
Chlorobenzene	ND	100	500.0	ug/Kg	03/12/04	AM
Chloroethane	ND	100	500.0	ug/Kg	03/12/04	AM
Chloroform	ND	100	500.0	ug/Kg	03/12/04	AM
Chloromethane	ND	100	500.0	ug/Kg	03/12/04	AM
cis-1,2-Dichloroethene	ND	100	500.0	ug/Kg	03/12/04	AM
cis-1,3-Dichloropropene	ND	100	500.0	ug/Kg	03/12/04	AM
cis-1,4-Dichloro-2-butene	ND	100	500.0	ug/Kg	03/12/04	AM
Dibromochloromethane	ND	100	500.0	ug/Kg	03/12/04	AM
Dibromomethane	ND	100	500.0	ug/Kg	03/12/04	AM
Dichlorodifluoromethane	ND	100	500.0	ug/Kg	03/12/04	AM
Ethyl benzene	1210	100	500.0	ug/Kg	03/12/04	AM
Ethyl methacrylate	ND	100	500.0	ug/Kg	03/12/04	AM
Hexachlorobutadiene	ND	100	500.0	ug/Kg	03/12/04	AM
Iodomethane	ND	100	500.0	ug/Kg	03/12/04	AM
Isopropylbenzene (Cumene)	ND	100	500.0	ug/Kg	03/12/04	AM
Methacrylonitrile	ND	100	500.0	ug/Kg	03/12/04	AM
Methyl methacrylate	ND	100	500.0	ug/Kg	03/12/04	AM
Methyl-tert-butylether (MTBE)	ND	100	500.0	ug/Kg	03/12/04	AM
Methylene chloride	ND	100	500.0	ug/Kg	03/12/04	AM
n-Butylbenzene	ND	100	500.0	ug/Kg	03/12/04	AM
n-Propylbenzene	4400	100	500.0	ug/Kg	03/12/04	AM
Naphthalene	18700	100	500.0	ug/Kg	03/12/04	AM
p-Isopropyltoluene	8960	100	500.0	ug/Kg	03/12/04	AM
Pentachloroethane	ND	100	500.0	ug/Kg	03/12/04	AM
Propionitrile	ND	100	500.0	ug/Kg	03/12/04	AM
sec-Butylbenzene	ND	100	500.0	ug/Kg	03/12/04	AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504432 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS12-2
Date Sampled: 03/09/2004
Time Sampled: 12:18
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Styrene	ND	100	500.0	ug/Kg	03/12/04	AM
tert-Butylbenzene	ND	100	500.0	ug/Kg	03/12/04	AM
Tetrachloroethene	ND	100	500.0	ug/Kg	03/12/04	AM
Toluene	ND	100	500.0	ug/Kg	03/12/04	AM
trans-1,2-Dichloroethene	ND	100	500.0	ug/Kg	03/12/04	AM
trans-1,3-Dichloropropene	ND	100	500.0	ug/Kg	03/12/04	AM
trans-1,4-Dichloro-2-butene	ND	100	500.0	ug/Kg	03/12/04	AM
Trichloroethene	ND	100	500.0	ug/Kg	03/12/04	AM
Trichlorofluoromethane	ND	100	500.0	ug/Kg	03/12/04	AM
Vinyl acetate	ND	100	5000.0	ug/Kg	03/12/04	AM
Vinyl chloride	ND	100	500.0	ug/Kg	03/12/04	AM
Xylenes, total	4470	100	500.0	ug/Kg	03/12/04	AM
Surrogates				**Units**	**Control Limits**	
Surr1 - Dibromofluoromethane	89			%	70 - 135	
Surr2 - 1,2-Dichloroethane-d4	100			%	70 - 135	
Surr3 - Toluene-d8	93			%	70 - 135	
Surr4 - p-Bromofluorobenzene	0			%	70 - 135	
8270C Acid/Base/Neutral Extractables						
1,2,4-Trichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,2-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,3-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,4-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
2,4,5-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4,6-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dichlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dimethylphenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dinitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2,6-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2-Chloronaphthalene	ND	1	333	ug/Kg	03/14/04	DP
2-Chlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2-Methylnaphthalene	15700	1	333	ug/Kg	03/14/04	DP
2-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
2-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
2-Nitrophenol	ND	1	333	ug/Kg	03/14/04	DP
3,3-Dichlorobenzidine	ND	1	333	ug/Kg	03/14/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504432 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS12-2
Date Sampled: 03/09/2004
Time Sampled: 12:18
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
3-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
3-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4,6-Dinitro-2-methylphenol	ND	1	1665	ug/Kg	03/14/04	DP
4-Bromophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Chloro-3-methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Chloroaniline	ND	1	333	ug/Kg	03/14/04	DP
4-Chlorophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4-Nitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
Acenaphthene	ND	1	333	ug/Kg	03/14/04	DP
Acenaphthylene	ND	1	333	ug/Kg	03/14/04	DP
Anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzidine	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(b)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(g,h,i)perylene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(k)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzoic Acid	ND	1	333	ug/Kg	03/14/04	DP
Benzyl alcohol	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethoxy)methane	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethyl)ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroisopropyl) ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Ethylhexyl)phthalate	1110	1	333	ug/Kg	03/14/04	DP
Butylbenzylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Chrysene	ND	1	333	ug/Kg	03/14/04	DP
Di-n-butylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Di-n-octylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dibenz(a,h)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Dibenzofuran	988	1	333	ug/Kg	03/14/04	DP
Diethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dimethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Fluorene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobutadiene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorocyclopentadiene	ND	1	333	ug/Kg	03/14/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504432 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS12-2
Date Sampled: 03/09/2004
Time Sampled: 12:18
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
Hexachloroethane	ND	1	333	ug/Kg	03/14/04	DP
Indeno(1,2,3-c,d)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Isophorone	ND	1	333	ug/Kg	03/14/04	DP
N-Nitroso-di-n-propylamine	ND	1	333	ug/Kg	03/14/04	DP
N-Nitrosodiphenylamine	ND	1	333	ug/Kg	03/14/04	DP
Naphthalene	7220	1	333	ug/Kg	03/14/04	DP
Nitrobenzene	ND	1	333	ug/Kg	03/14/04	DP
Pentachlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
Phenanthrene	ND	1	333	ug/Kg	03/14/04	DP
Phenol	ND	1	333	ug/Kg	03/14/04	DP
Pyrene	ND	1	333	ug/Kg	03/14/04	DP

Surrogates		Units	Control Limits
2,4,6-Tribromophenol (sur)	80	%	17 - 122
2-Fluorobiphenyl (sur)	70	%	30 - 115
2-Fluorophenol (sur)	66	%	25 - 121
Nitrobenzene-d5 (sur)	76	%	23 - 120
Phenol-d5 (sur)	94	%	24 - 113
Terphenyl-d14 (sur)	91	%	18 - 137

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504433 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS13-3
Date Sampled: 03/09/2004
Time Sampled: 12:06
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8015 Carbon Chain I						
C06 - C10	18	1	3	mg/Kg	03/11/04	AF
C10 - C22	52	1	3	mg/Kg	03/11/04	AF
C22 - C36	ND	1	5	mg/Kg	03/11/04	AF
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	03/12/04	AM
1,1,1-Trichloroethane	ND	1	5	ug/Kg	03/12/04	AM
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	03/12/04	AM
1,1,2-Trichloroethane	ND	1	5	ug/Kg	03/12/04	AM
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	03/12/04	AM
1,1-Dichloroethane	ND	1	5	ug/Kg	03/12/04	AM
1,1-Dichloroethene	ND	1	5	ug/Kg	03/12/04	AM
1,1-Dichloropropene	ND	1	5	ug/Kg	03/12/04	AM
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	03/12/04	AM
1,2,3-Trichloropropane	ND	1	5	ug/Kg	03/12/04	AM
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	03/12/04	AM
1,2,4-Trimethylbenzene	7.2	1	5	ug/Kg	03/12/04	AM
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	03/12/04	AM
1,2-Dibromoethane	ND	1	5	ug/Kg	03/12/04	AM
1,2-Dichlorobenzene	ND	1	5	ug/Kg	03/12/04	AM
1,2-Dichloroethane	ND	1	5	ug/Kg	03/12/04	AM
1,2-Dichloropropane	ND	1	5	ug/Kg	03/12/04	AM
1,3,5-Trimethylbenzene	7.8	1	5	ug/Kg	03/12/04	AM
1,3-Dichlorobenzene	ND	1	5	ug/Kg	03/12/04	AM
1,3-Dichloropropane	ND	1	5	ug/Kg	03/12/04	AM
1,4-Dichlorobenzene	ND	1	5	ug/Kg	03/12/04	AM
1-Chlorohexane	ND	1	5	ug/Kg	03/12/04	AM
2,2-Dichloropropane	ND	1	5	ug/Kg	03/12/04	AM
2-Butanone (MEK)	ND	1	100	ug/Kg	03/12/04	AM
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	03/12/04	AM
2-Chlorotoluene	ND	1	5	ug/Kg	03/12/04	AM
2-Hexanone	ND	1	5	ug/Kg	03/12/04	AM
4-Chlorotoluene	ND	1	5	ug/Kg	03/12/04	AM
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	03/12/04	AM
Acetone	ND	1	50	ug/Kg	03/12/04	AM
Acetonitrile	ND	1	5	ug/Kg	03/12/04	AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504433 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS13-3
Date Sampled: 03/09/2004
Time Sampled: 12:06
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Acrolein	ND	1	200	ug/Kg	03/12/04	AM
Acrylonitrile	ND	1	5	ug/Kg	03/12/04	AM
Allyl chloride	ND	1	5	ug/Kg	03/12/04	AM
Benzene	ND	1	5	ug/Kg	03/12/04	AM
Benzyl chloride	ND	1	5	ug/Kg	03/12/04	AM
Bromobenzene	ND	1	5	ug/Kg	03/12/04	AM
Bromochloromethane	ND	1	5	ug/Kg	03/12/04	AM
Bromodichloromethane	ND	1	5	ug/Kg	03/12/04	AM
Bromoform	ND	1	5	ug/Kg	03/12/04	AM
Bromomethane	ND	1	5	ug/Kg	03/12/04	AM
Carbon Disulfide	ND	1	5	ug/Kg	03/12/04	AM
Carbon tetrachloride	ND	1	5	ug/Kg	03/12/04	AM
Chlorobenzene	ND	1	5	ug/Kg	03/12/04	AM
Chloroethane	ND	1	5	ug/Kg	03/12/04	AM
Chloroform	ND	1	5	ug/Kg	03/12/04	AM
Chloromethane	ND	1	5	ug/Kg	03/12/04	AM
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	03/12/04	AM
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	03/12/04	AM
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/12/04	AM
Dibromochloromethane	ND	1	5	ug/Kg	03/12/04	AM
Dibromomethane	ND	1	5	ug/Kg	03/12/04	AM
Dichlorodifluoromethane	ND	1	5	ug/Kg	03/12/04	AM
Ethyl benzene	ND	1	5	ug/Kg	03/12/04	AM
Ethyl methacrylate	ND	1	5	ug/Kg	03/12/04	AM
Hexachlorobutadiene	ND	1	5	ug/Kg	03/12/04	AM
Iodomethane	ND	1	5	ug/Kg	03/12/04	AM
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	03/12/04	AM
Methacrylonitrile	ND	1	5	ug/Kg	03/12/04	AM
Methyl methacrylate	ND	1	5	ug/Kg	03/12/04	AM
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	03/12/04	AM
Methylene chloride	ND	1	5	ug/Kg	03/12/04	AM
n-Butylbenzene	ND	1	5	ug/Kg	03/12/04	AM
n-Propylbenzene	ND	1	5	ug/Kg	03/12/04	AM
Naphthalene	ND	1	5	ug/Kg	03/12/04	AM
p-Isopropyltoluene	ND	1	5	ug/Kg	03/12/04	AM
Pentachloroethane	ND	1	5	ug/Kg	03/12/04	AM
Propionitrile	ND	1	5	ug/Kg	03/12/04	AM
sec-Butylbenzene	ND	1	5	ug/Kg	03/12/04	AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504433 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS13-3
Date Sampled: 03/09/2004
Time Sampled: 12:06
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Styrene	ND	1	5	ug/Kg	03/12/04	AM
tert-Butylbenzene	ND	1	5	ug/Kg	03/12/04	AM
Tetrachloroethene	ND	1	5	ug/Kg	03/12/04	AM
Toluene	ND	1	5	ug/Kg	03/12/04	AM
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	03/12/04	AM
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	03/12/04	AM
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/12/04	AM
Trichloroethene	ND	1	5	ug/Kg	03/12/04	AM
Trichlorofluoromethane	ND	1	5	ug/Kg	03/12/04	AM
Vinyl acetate	ND	1	50	ug/Kg	03/12/04	AM
Vinyl chloride	ND	1	5	ug/Kg	03/12/04	AM
Xylenes, total	ND	1	5	ug/Kg	03/12/04	AM
Surrogates				**Units**	**Control Limits**	
Surr1 - Dibromofluoromethane	89			%	70 - 135	
Surr2 - 1,2-Dichloroethane-d4	110			%	70 - 135	
Surr3 - Toluene-d8	96			%	70 - 135	
Surr4 - p-Bromofluorobenzene	98			%	70 - 135	
8270C Acid/Base/Neutral Extractables						
1,2,4-Trichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,2-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,3-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,4-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
2,4,5-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4,6-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dichlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dimethylphenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dinitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2,6-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2-Chloronaphthalene	ND	1	333	ug/Kg	03/14/04	DP
2-Chlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2-Methylnaphthalene	566	1	333	ug/Kg	03/14/04	DP
2-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
2-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
2-Nitrophenol	ND	1	333	ug/Kg	03/14/04	DP
3,3-Dichlorobenzidine	ND	1	333	ug/Kg	03/14/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504433 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS13-3
Date Sampled: 03/09/2004
Time Sampled: 12:06
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
3-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
3-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4,6-Dinitro-2-methylphenol	ND	1	1665	ug/Kg	03/14/04	DP
4-Bromophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Chloro-3-methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Chloroaniline	ND	1	333	ug/Kg	03/14/04	DP
4-Chlorophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4-Nitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
Acenaphthene	ND	1	333	ug/Kg	03/14/04	DP
Acenaphthylene	ND	1	333	ug/Kg	03/14/04	DP
Anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzidine	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(b)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(g,h,i)perylene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(k)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzoic Acid	ND	1	333	ug/Kg	03/14/04	DP
Benzyl alcohol	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethoxy)methane	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethyl)ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroisopropyl) ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Ethylhexyl)phthalate	ND	1	333	ug/Kg	03/14/04	DP
Butylbenzylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Chrysene	ND	1	333	ug/Kg	03/14/04	DP
Di-n-butylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Di-n-octylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dibenz(a,h)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Dibenzofuran	ND	1	333	ug/Kg	03/14/04	DP
Diethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dimethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Fluorene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobutadiene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorocyclopentadiene	ND	1	333	ug/Kg	03/14/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504433 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS13-3
Date Sampled: 03/09/2004
Time Sampled: 12:06
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
Hexachloroethane	ND	1	333	ug/Kg	03/14/04	DP
Indeno(1,2,3-c,d)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Isophorone	ND	1	333	ug/Kg	03/14/04	DP
N-Nitroso-di-n-propylamine	ND	1	333	ug/Kg	03/14/04	DP
N-Nitrosodiphenylamine	ND	1	333	ug/Kg	03/14/04	DP
Naphthalene	ND	1	333	ug/Kg	03/14/04	DP
Nitrobenzene	ND	1	333	ug/Kg	03/14/04	DP
Pentachlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
Phenanthrene	ND	1	333	ug/Kg	03/14/04	DP
Phenol	ND	1	333	ug/Kg	03/14/04	DP
Pyrene	ND	1	333	ug/Kg	03/14/04	DP

Surrogates		Units	Control Limits
2,4,6-Tribromophenol (sur)	75	%	17 - 122
2-Fluorobiphenyl (sur)	72	%	30 - 115
2-Fluorophenol (sur)	78	%	25 - 121
Nitrobenzene-d5 (sur)	69	%	23 - 120
Phenol-d5 (sur)	83	%	24 - 113
Terphenyl-d14 (sur)	97	%	18 - 137

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504434 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS14-3
Date Sampled: 03/09/2004
Time Sampled: 12:11
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8015 Carbon Chain I						
C06 - C10	ND	1	3	mg/Kg	03/11/04	AF
C10 - C22	ND	1	3	mg/Kg	03/11/04	AF
C22 - C36	ND	1	5	mg/Kg	03/11/04	AF
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	100	500.0	ug/Kg	03/16/04	AM
1,1,1-Trichloroethane	ND	100	500.0	ug/Kg	03/16/04	AM
1,1,2,2-Tetrachloroethane	ND	100	500.0	ug/Kg	03/16/04	AM
1,1,2-Trichloroethane	ND	100	500.0	ug/Kg	03/16/04	AM
1,1,2-Trichlorotrifluoroethane	ND	100	500.0	ug/Kg	03/16/04	AM
1,1-Dichloroethane	ND	100	500.0	ug/Kg	03/16/04	AM
1,1-Dichloroethene	ND	100	500.0	ug/Kg	03/16/04	AM
1,1-Dichloropropene	ND	100	500.0	ug/Kg	03/16/04	AM
1,2,3-Trichlorobenzene	ND	100	500.0	ug/Kg	03/16/04	AM
1,2,3-Trichloropropane	ND	100	500.0	ug/Kg	03/16/04	AM
1,2,4-Trichlorobenzene	ND	100	500.0	ug/Kg	03/16/04	AM
1,2,4-Trimethylbenzene	677	100	500.0	ug/Kg	03/16/04	AM
1,2-Dibromo-3-chloropropane	ND	100	500.0	ug/Kg	03/16/04	AM
1,2-Dibromoethane	ND	100	500.0	ug/Kg	03/16/04	AM
1,2-Dichlorobenzene	ND	100	500.0	ug/Kg	03/16/04	AM
1,2-Dichloroethane	ND	100	500.0	ug/Kg	03/16/04	AM
1,2-Dichloropropane	ND	100	500.0	ug/Kg	03/16/04	AM
1,3,5-Trimethylbenzene	ND	100	500.0	ug/Kg	03/16/04	AM
1,3-Dichlorobenzene	ND	100	500.0	ug/Kg	03/16/04	AM
1,3-Dichloropropane	ND	100	500.0	ug/Kg	03/16/04	AM
1,4-Dichlorobenzene	ND	100	500.0	ug/Kg	03/16/04	AM
1-Chlorohexane	ND	100	500.0	ug/Kg	03/16/04	AM
2,2-Dichloropropane	ND	100	500.0	ug/Kg	03/16/04	AM
2-Butanone (MEK)	ND	100	10000.0	ug/Kg	03/16/04	AM
2-Chloroethyl vinyl ether	ND	100	500.0	ug/Kg	03/16/04	AM
2-Chlorotoluene	ND	100	500.0	ug/Kg	03/16/04	AM
2-Hexanone	ND	100	500.0	ug/Kg	03/16/04	AM
4-Chlorotoluene	ND	100	500.0	ug/Kg	03/16/04	AM
4-Methyl -2- Pentanone	ND	100	500.0	ug/Kg	03/16/04	AM
Acetone	ND	100	5000.0	ug/Kg	03/16/04	AM
Acetonitrile	ND	100	500.0	ug/Kg	03/16/04	AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504434 **Client:** BHATE

Matrix: SOLID **Client Sample ID:** F4WSM-CS14-3

Date Sampled: 03/09/2004

Time Sampled: 12:11

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Acrolein	ND	100	20000.0	ug/Kg	03/16/04	AM
Acrylonitrile	ND	100	500.0	ug/Kg	03/16/04	AM
Allyl chloride	ND	100	500.0	ug/Kg	03/16/04	AM
Benzene	ND	100	500.0	ug/Kg	03/16/04	AM
Benzyl chloride	ND	100	500.0	ug/Kg	03/16/04	AM
Bromobenzene	ND	100	500.0	ug/Kg	03/16/04	AM
Bromochloromethane	ND	100	500.0	ug/Kg	03/16/04	AM
Bromodichloromethane	ND	100	500.0	ug/Kg	03/16/04	AM
Bromoform	ND	100	500.0	ug/Kg	03/16/04	AM
Bromomethane	ND	100	500.0	ug/Kg	03/16/04	AM
Carbon Disulfide	ND	100	500.0	ug/Kg	03/16/04	AM
Carbon tetrachloride	ND	100	500.0	ug/Kg	03/16/04	AM
Chlorobenzene	ND	100	500.0	ug/Kg	03/16/04	AM
Chloroethane	ND	100	500.0	ug/Kg	03/16/04	AM
Chloroform	ND	100	500.0	ug/Kg	03/16/04	AM
Chloromethane	ND	100	500.0	ug/Kg	03/16/04	AM
cis-1,2-Dichloroethene	ND	100	500.0	ug/Kg	03/16/04	AM
cis-1,3-Dichloropropene	ND	100	500.0	ug/Kg	03/16/04	AM
cis-1,4-Dichloro-2-butene	ND	100	500.0	ug/Kg	03/16/04	AM
Dibromochloromethane	ND	100	500.0	ug/Kg	03/16/04	AM
Dibromomethane	ND	100	500.0	ug/Kg	03/16/04	AM
Dichlorodifluoromethane	ND	100	500.0	ug/Kg	03/16/04	AM
Ethyl benzene	ND	100	500.0	ug/Kg	03/16/04	AM
Ethyl methacrylate	ND	100	500.0	ug/Kg	03/16/04	AM
Hexachlorobutadiene	ND	100	500.0	ug/Kg	03/16/04	AM
Iodomethane	ND	100	500.0	ug/Kg	03/16/04	AM
Isopropylbenzene (Cumene)	ND	100	500.0	ug/Kg	03/16/04	AM
Methacrylonitrile	ND	100	500.0	ug/Kg	03/16/04	AM
Methyl methacrylate	ND	100	500.0	ug/Kg	03/16/04	AM
Methyl-tert-butylether (MTBE)	ND	100	500.0	ug/Kg	03/16/04	AM
Methylene chloride	ND	100	500.0	ug/Kg	03/16/04	AM
n-Butylbenzene	ND	100	500.0	ug/Kg	03/16/04	AM
n-Propylbenzene	ND	100	500.0	ug/Kg	03/16/04	AM
Naphthalene	983	100	500.0	ug/Kg	03/16/04	AM
p-Isopropyltoluene	ND	100	500.0	ug/Kg	03/16/04	AM
Pentachloroethane	ND	100	500.0	ug/Kg	03/16/04	AM
Propionitrile	ND	100	500.0	ug/Kg	03/16/04	AM
sec-Butylbenzene	ND	100	500.0	ug/Kg	03/16/04	AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504434 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS14-3
Date Sampled: 03/09/2004
Time Sampled: 12:11
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Styrene	ND	100	500.0	ug/Kg	03/16/04	AM
tert-Butylbenzene	ND	100	500.0	ug/Kg	03/16/04	AM
Tetrachloroethene	ND	100	500.0	ug/Kg	03/16/04	AM
Toluene	ND	100	500.0	ug/Kg	03/16/04	AM
trans-1,2-Dichloroethene	ND	100	500.0	ug/Kg	03/16/04	AM
trans-1,3-Dichloropropene	ND	100	500.0	ug/Kg	03/16/04	AM
trans-1,4-Dichloro-2-butene	ND	100	500.0	ug/Kg	03/16/04	AM
Trichloroethene	ND	100	500.0	ug/Kg	03/16/04	AM
Trichlorofluoromethane	ND	100	500.0	ug/Kg	03/16/04	AM
Vinyl acetate	ND	100	5000.0	ug/Kg	03/16/04	AM
Vinyl chloride	ND	100	500.0	ug/Kg	03/16/04	AM
Xylenes, total	ND	100	500.0	ug/Kg	03/16/04	AM

Surrogates		Units	Control Limits
Surr1 - Dibromofluoromethane	91	%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	104	%	70 - 135
Surr3 - Toluene-d8	98	%	70 - 135
Surr4 - p-Bromofluorobenzene	101	%	70 - 135

8270C Acid/Base/Neutral Extractables						
1,2,4-Trichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,2-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,3-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,4-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
2,4,5-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4,6-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dichlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dimethylphenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dinitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2,6-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2-Chloronaphthalene	ND	1	333	ug/Kg	03/14/04	DP
2-Chlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2-Methylnaphthalene	ND	1	333	ug/Kg	03/14/04	DP
2-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
2-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
2-Nitrophenol	ND	1	333	ug/Kg	03/14/04	DP
3,3-Dichlorobenzidine	ND	1	333	ug/Kg	03/14/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504434 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS14-3
Date Sampled: 03/09/2004
Time Sampled: 12:11
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
3-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
3-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4,6-Dinitro-2-methylphenol	ND	1	1665	ug/Kg	03/14/04	DP
4-Bromophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Chloro-3-methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Chloroaniline	ND	1	333	ug/Kg	03/14/04	DP
4-Chlorophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4-Nitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
Acenaphthene	ND	1	333	ug/Kg	03/14/04	DP
Acenaphthylene	ND	1	333	ug/Kg	03/14/04	DP
Anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzidine	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(b)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(g,h,i)perylene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(k)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzoic Acid	ND	1	333	ug/Kg	03/14/04	DP
Benzyl alcohol	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethoxy)methane	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethyl)ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroisopropyl) ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Ethylhexyl)phthalate	ND	1	333	ug/Kg	03/14/04	DP
Butylbenzylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Chrysene	ND	1	333	ug/Kg	03/14/04	DP
Di-n-butylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Di-n-octylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dibenz(a,h)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Dibenzofuran	ND	1	333	ug/Kg	03/14/04	DP
Diethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dimethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Fluorene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobutadiene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorocyclopentadiene	ND	1	333	ug/Kg	03/14/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504434 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSM-CS14-3
Date Sampled: 03/09/2004
Time Sampled: 12:11
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
Hexachloroethane	ND	1	333	ug/Kg	03/14/04	DP
Indeno(1,2,3-c,d)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Isophorone	ND	1	333	ug/Kg	03/14/04	DP
N-Nitroso-di-n-propylamine	ND	1	333	ug/Kg	03/14/04	DP
N-Nitrosodiphenylamine	ND	1	333	ug/Kg	03/14/04	DP
Naphthalene	ND	1	333	ug/Kg	03/14/04	DP
Nitrobenzene	ND	1	333	ug/Kg	03/14/04	DP
Pentachlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
Phenanthrene	ND	1	333	ug/Kg	03/14/04	DP
Phenol	ND	1	333	ug/Kg	03/14/04	DP
Pyrene	ND	1	333	ug/Kg	03/14/04	DP

Surrogates		Units	Control Limits
2,4,6-Tribromophenol (sur)	67	%	17 - 122
2-Fluorobiphenyl (sur)	60	%	30 - 115
2-Fluorophenol (sur)	76	%	25 - 121
Nitrobenzene-d5 (sur)	66	%	23 - 120
Phenol-d5 (sur)	81	%	24 - 113
Terphenyl-d14 (sur)	91	%	18 - 137

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504435 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** Laboratory Method Blank
Date Sampled:
Time Sampled:
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8015 Carbon Chain I						
C06 - C10	ND	1	3	mg/Kg	03/10/04	AF
C10 - C22	ND	1	3	mg/Kg	03/10/04	AF
C22 - C36	ND	1	5	mg/Kg	03/10/04	AF
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1,1-Trichloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1,2-Trichloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1-Dichloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,1-Dichloroethene	ND	1	5	ug/Kg	03/15/04	AM
1,1-Dichloropropene	ND	1	5	ug/Kg	03/15/04	AM
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1,2,3-Trichloropropane	ND	1	5	ug/Kg	03/15/04	AM
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dibromoethane	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dichloroethane	ND	1	5	ug/Kg	03/15/04	AM
1,2-Dichloropropane	ND	1	5	ug/Kg	03/15/04	AM
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	03/15/04	AM
1,3-Dichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1,3-Dichloropropane	ND	1	5	ug/Kg	03/15/04	AM
1,4-Dichlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
1-Chlorohexane	ND	1	5	ug/Kg	03/15/04	AM
2,2-Dichloropropane	ND	1	5	ug/Kg	03/15/04	AM
2-Butanone (MEK)	ND	1	100	ug/Kg	03/15/04	AM
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	03/15/04	AM
2-Chlorotoluene	ND	1	5	ug/Kg	03/15/04	AM
2-Hexanone	ND	1	5	ug/Kg	03/15/04	AM
4-Chlorotoluene	ND	1	5	ug/Kg	03/15/04	AM
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	03/15/04	AM
Acetone	ND	1	50	ug/Kg	03/15/04	AM
Acetonitrile	ND	1	5	ug/Kg	03/15/04	AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504435 **Client:** BHATE

Matrix: SOLID **Client Sample ID:** Laboratory Method Blank

Date Sampled:

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Acrolein	ND	1	200	ug/Kg	03/15/04	AM
Acrylonitrile	ND	1	5	ug/Kg	03/15/04	AM
Allyl chloride	ND	1	5	ug/Kg	03/15/04	AM
Benzene	ND	1	5	ug/Kg	03/15/04	AM
Benzyl chloride	ND	1	5	ug/Kg	03/15/04	AM
Bromobenzene	ND	1	5	ug/Kg	03/15/04	AM
Bromochloromethane	ND	1	5	ug/Kg	03/15/04	AM
Bromodichloromethane	ND	1	5	ug/Kg	03/15/04	AM
Bromoform	ND	1	5	ug/Kg	03/15/04	AM
Bromomethane	ND	1	5	ug/Kg	03/15/04	AM
Carbon Disulfide	ND	1	5	ug/Kg	03/15/04	AM
Carbon tetrachloride	ND	1	5	ug/Kg	03/15/04	AM
Chlorobenzene	ND	1	5	ug/Kg	03/15/04	AM
Chloroethane	ND	1	5	ug/Kg	03/15/04	AM
Chloroform	ND	1	5	ug/Kg	03/15/04	AM
Chloromethane	ND	1	5	ug/Kg	03/15/04	AM
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	03/15/04	AM
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	03/15/04	AM
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/15/04	AM
Dibromochloromethane	ND	1	5	ug/Kg	03/15/04	AM
Dibromomethane	ND	1	5	ug/Kg	03/15/04	AM
Dichlorodifluoromethane	ND	1	5	ug/Kg	03/15/04	AM
Ethyl benzene	ND	1	5	ug/Kg	03/15/04	AM
Ethyl methacrylate	ND	1	5	ug/Kg	03/15/04	AM
Hexachlorobutadiene	ND	1	5	ug/Kg	03/15/04	AM
Iodomethane	ND	1	5	ug/Kg	03/15/04	AM
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	03/15/04	AM
Methacrylonitrile	ND	1	5	ug/Kg	03/15/04	AM
Methyl methacrylate	ND	1	5	ug/Kg	03/15/04	AM
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	03/15/04	AM
Methylene chloride	ND	1	5	ug/Kg	03/15/04	AM
n-Butylbenzene	ND	1	5	ug/Kg	03/15/04	AM
n-Propylbenzene	ND	1	5	ug/Kg	03/15/04	AM
Naphthalene	ND	1	5	ug/Kg	03/15/04	AM
p-Isopropyltoluene	ND	1	5	ug/Kg	03/15/04	AM
Pentachloroethane	ND	1	5	ug/Kg	03/15/04	AM
Propionitrile	ND	1	5	ug/Kg	03/15/04	AM
sec-Butylbenzene	ND	1	5	ug/Kg	03/15/04	AM

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504435 **Client:** BHATE

Matrix: SOLID **Client Sample ID:** Laboratory Method Blank

Date Sampled:

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Styrene	ND	1	5	ug/Kg	03/15/04	AM
tert-Butylbenzene	ND	1	5	ug/Kg	03/15/04	AM
Tetrachloroethene	ND	1	5	ug/Kg	03/15/04	AM
Toluene	ND	1	5	ug/Kg	03/15/04	AM
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	03/15/04	AM
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	03/15/04	AM
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/15/04	AM
Trichloroethene	ND	1	5	ug/Kg	03/15/04	AM
Trichlorofluoromethane	ND	1	5	ug/Kg	03/15/04	AM
Vinyl acetate	ND	1	50	ug/Kg	03/15/04	AM
Vinyl chloride	ND	1	5	ug/Kg	03/15/04	AM
Xylenes, total	ND	1	5	ug/Kg	03/15/04	AM
Surrogates				**Units**	**Control Limits**	
Surr1 - Dibromofluoromethane	89			%	70 - 135	
Surr2 - 1,2-Dichloroethane-d4	101			%	70 - 135	
Surr3 - Toluene-d8	102			%	70 - 135	
Surr4 - p-Bromofluorobenzene	108			%	70 - 135	
8270C Acid/Base/Neutral Extractables						
1,2,4-Trichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,2-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,3-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
1,4-Dichlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
2,4,5-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4,6-Trichlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dichlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dimethylphenol	ND	1	333	ug/Kg	03/14/04	DP
2,4-Dinitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
2,4-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2,6-Dinitrotoluene	ND	1	333	ug/Kg	03/14/04	DP
2-Chloronaphthalene	ND	1	333	ug/Kg	03/14/04	DP
2-Chlorophenol	ND	1	333	ug/Kg	03/14/04	DP
2-Methylnaphthalene	ND	1	333	ug/Kg	03/14/04	DP
2-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
2-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
2-Nitrophenol	ND	1	333	ug/Kg	03/14/04	DP
3,3-Dichlorobenzidine	ND	1	333	ug/Kg	03/14/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504435 **Client:** BHATE

Matrix: SOLID **Client Sample ID:** Laboratory Method Blank

Date Sampled:

Time Sampled:

S[illegible]ed By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
3-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
3-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4,6-Dinitro-2-methylphenol	ND	1	1665	ug/Kg	03/14/04	DP
4-Bromophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Chloro-3-methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Chloroaniline	ND	1	333	ug/Kg	03/14/04	DP
4-Chlorophenyl-phenylether	ND	1	333	ug/Kg	03/14/04	DP
4-Methylphenol	ND	1	333	ug/Kg	03/14/04	DP
4-Nitroaniline	ND	1	1665	ug/Kg	03/14/04	DP
4-Nitrophenol	ND	1	1665	ug/Kg	03/14/04	DP
Acenaphthene	ND	1	333	ug/Kg	03/14/04	DP
Acenaphthylene	ND	1	333	ug/Kg	03/14/04	DP
Anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzidine	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(a)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(b)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(g,h,i)perylene	ND	1	333	ug/Kg	03/14/04	DP
Benzo(k)fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Benzoic Acid	ND	1	333	ug/Kg	03/14/04	DP
Benzyl alcohol	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethoxy)methane	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroethyl)ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Chloroisopropyl) ether	ND	1	333	ug/Kg	03/14/04	DP
bis(2-Ethylhexyl)phthalate	ND	1	333	ug/Kg	03/14/04	DP
Butylbenzylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Chrysene	ND	1	333	ug/Kg	03/14/04	DP
Di-n-butylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Di-n-octylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dibenz(a,h)anthracene	ND	1	333	ug/Kg	03/14/04	DP
Dibenzofuran	ND	1	333	ug/Kg	03/14/04	DP
Diethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Dimethylphthalate	ND	1	333	ug/Kg	03/14/04	DP
Fluoranthene	ND	1	333	ug/Kg	03/14/04	DP
Fluorene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobenzene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorobutadiene	ND	1	333	ug/Kg	03/14/04	DP
Hexachlorocyclopentadiene	ND	1	333	ug/Kg	03/14/04	DP

DL[illegible] Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 504435 **Client:** BHATE

Matrix: SOLID **Client Sample ID:** Laboratory Method Blank

Date Sampled:

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
Hexachloroethane	ND	1	333	ug/Kg	03/14/04	DP
Indeno(1,2,3-c,d)pyrene	ND	1	333	ug/Kg	03/14/04	DP
Isophorone	ND	1	333	ug/Kg	03/14/04	DP
N-Nitroso-di-n-propylamine	ND	1	333	ug/Kg	03/14/04	DP
N-Nitrosodiphenylamine	ND	1	333	ug/Kg	03/14/04	DP
Naphthalene	ND	1	333	ug/Kg	03/14/04	DP
Nitrobenzene	ND	1	333	ug/Kg	03/14/04	DP
Pentachlorophenol	ND	1	1665	ug/Kg	03/14/04	DP
Phenanthrene	ND	1	333	ug/Kg	03/14/04	DP
Phenol	ND	1	333	ug/Kg	03/14/04	DP
Pyrene	ND	1	333	ug/Kg	03/14/04	DP

Surrogates		Units	Control Limits
2,4,6-Tribromophenol (sur)	35	%	17 - 122
2-Fluorobiphenyl (sur)	52	%	30 - 115
2-Fluorophenol (sur)	51	%	25 - 121
Nitrobenzene-d5 (sur)	51	%	23 - 120
Phenol-d5 (sur)	65	%	24 - 113
Terphenyl-d14 (sur)	85	%	18 - 137

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES
LCS REPORT FORM

QC Sample: LCS/LCSD

Matrix: SOLID

Extraction Method : 3545

Prep. Date: 03/10/04

Analysis Date: 03/10/04

ID#'s in Batch: LR 125893, 125894, 125900

Reporting Units = mg/Kg

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

			PREP BLK					
			Value	Result	True	%Rec	L.Limit	H.Limit
Test	Method	LCS	ND	29.4	25	118	70%	130%
DIESEL	8015D	LCSD	ND	28.8	25	115	70%	130%

LCS Result = Lab Control Sample Result
True = True Value of LCS
L.Limit / H.Limit = LCS Control Limits

SURROGATE RECOVERY

Sample No.	O-Terphenyl
QC Limit	55-200
Method Blank	159
LCS	182
LCSD	183

ASSOCIATED LABORATORIES

QA REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: MS / MSD - Solid Samples 125782-735

Analysis Date: 03/11/04 3:24 PM

Applies to: LR 125782, 125900

Reporting Units = ug/Kg

Matrix Spike / Matrix Spike Duplicate

Test	Sample Result	Spike Added	Matrix Spike	Matrix Spk. Dup	%Rec MS	%Rec MSD	RPD	QC Limits RPD	QC Limits %REC
1,1-Dichloroethene	ND	50.0	49.16	45.31	98	91	8	22	59-172
MTBE	ND	50.0	41.97	38.66	84	77	8	24	62-137
Benzene	ND	50.0	46.16	42.26	92	85	9	24	62-137
Trichloroethene	ND	50.0	52.25	47.94	105	96	9	21	66-142
Toluene	ND	50.0	51.35	45.22	103	90	13	21	59-139
Chlorobenzene	ND	50.0	48.60	43.71	97	87	11	21	60-133

QC Sample: LCS/LCSD
Analysis Date: 03/12/04 10:12 AM

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits RPD	QC Limits %REC
1,1-Dichloroethene	ND	50.0	52.84	52.04	106	104	2	22	59-172
MTBE	ND	50.0	45.67	45.69	91	91	0	24	62-137
Benzene	ND	50.0	49.77	50.09	100	100	1	24	62-137
Trichloroethene	ND	50.0	60.24	55.08	120	110	9	21	66-142
Toluene	ND	50.0	54.46	52.93	109	106	3	21	59-139
Chlorobenzene	ND	50.0	53.08	51.78	106	104	2	21	60-133

Method Blank = All ND

SURROGATE (QC Limits : 70-135)

Compound	MB 1	MB 2	MS	MSD	LCS	LCSD
DBFM	91	90	96	93	91	95
1,2-DCA	103	102	100	100	96	95
Tol-d8	98	96	99	93	99	97
p-BFB	101	97	99	98	98	95

ASSOCIATED LABORATORIES

LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: LCS/LCSD - Soil Samples

Analysis Date: 03/15/04 1:31 PM

Applies to: LR 125652, 125900, 126073, 126002

Reporting Units = ug/Kg

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits RPD	QC Limits %REC
1,1-Dichloroethene	ND	50	52.09	51.24	104	102	2	22	59-172
MTBE	ND	50	44.94	43.78	90	88	3	24	62-137
Benzene	ND	50	51.23	48.76	102	98	5	24	62-137
Trichloroethene	ND	50	53.86	54.62	108	109	1	21	66-142
Toluene	ND	50	55.08	55.03	110	110	0	21	59-139
Chlorobenzene	ND	50	55.69	51.78	111	104	7	21	60-133

Method Blank = All ND

SURROGATE (QC Limits : 70-135)

Compound	MB 1	MB 2	LCS	LCSD
DBFM	89	88	89	93
1,2-DCA	101	100	98	93
Tol-d8	102	103	98	96
p-BFB	108	103	102	105

ASSOCIATED LABORATORIES

QA REPORT FORM

Method : EPA 8270/625

Pre thod : 3545

QC Sample: MS/MSD 125900-434

Matrix: SOLID

Date Extracted : 03/10/04

Date Analyzed : 03/14/04

Applies to: LR 125900

REPORTING UNITS = ug/Kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Test	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup.	%Rec MS	%Rec MSD	RPD	QC Limits RPD	QC Limits %REC
Phenol	ND	50	37	38	74	76	3	42	6-117
2-Chorophenol	ND	50	30	32	60	64	7	35	28-100
1,4-Dichlorobenzene	ND	50	30	35	60	70	15	36	39-92
n-Nitroso-di-n-propylamine	ND	50	32	31	64	62	3	42	5-149
1,2,4-Trichlorobenzene	ND	50	30	34	60	68	13	41	41-97
4-Chloro-3-methylphenol	ND	50	38	40	76	80	5	37	26-117
Acenaphthene	ND	50	35	36	70	72	3	41	46-113
4-N ol	ND	50	38	38	76	76	0	73	53-143
2,4-Dinitrotoluene	ND	50	41	41	82	82	0	43	82-125
Pentachlorophenol	ND	50	35	36	70	72	3	52	25-187
Pyrene	ND	50	44	43	88	86	2	36	47-136

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	%Rec LCS	QC LIMIT %REC
Phenol	ND	50	33	66	17-99
2-Clorophenol	ND	50	29	58	28-88
1,4-Dichlorobenzene	ND	50	30	60	33-89
n-Nitroso-di-n-propylamine	ND	50	26	52	9-130
1,2,4-Trichlorobenzene	ND	50	29	58	25-92
4-Cloro-3-methylphenol	ND	50	33	66	27-96
Acenaphthene	ND	50	33	66	31-101
4-Nitrophenol	ND	50	19	38	8-123
2,4-Dinitrotoluene	ND	50	38	76	27-139
Pentachlorophenol	ND	50	11	22	0-151
Pyr	ND	50	44	88	34-127

Method Blank = All ND

ASSOCIATED LABORATORIES
North Batavia - Orange, California 92868-1225 - 714/771-6900 FAX 714/538-1209

Cooler Receipt Form

Client: Bhate Project: Drone Crash

Date Cooler Received: 3/10 Date Cooler Opened: 3/10

Was cooler scanned for presence of radioactivity ? Yes/No
If yes was radioactivity results above 25 cpm ? Yes/No

Was a shipper's packing slip attached to the cooler ? Yes/No

If the cooler had custody seal(s), were thy signed and intact ? Yes/No/Na

Was the cooler packed with: Ice x Ice Packs _____ Bubble wrap _____
Styrofoam _____ Paper _____ None _____ Other _____

Cooler Temperature: 2.6°C *
*cooler needs to be received @ 4°C with an acceptable range of 2°- 6 °C

If samples were hand delivered do they meet the temp. criteria, which should be @ 4°C with an acceptable range of 2°- 6 °C ? Yes/No

If no explain: _____

Were all samples sealed in plastic bags ? Yes/No

Did all samples arrive intact ? If no, indicate below. Yes/No

Were all samples labeled correctly ? (ID's Dates, Times) If no, indicate below. Yes/No

Can the tests required be ran with the provided containers, If no indicate below. Yes/No

Was sufficient sample volume sent for all containers ? Yes/No

Were any VOA vials received with head space ? Yes/No/Na

Was the correct preservatives used ? Yes/No/Na
If no, see the pH log for a list of samples containers regarding pH

Any other important information: _____

Receiving Department: [illegible] Date: 3/10

OHATE
Environmental Associates, Inc.
1608 13th Avenue South, Suite 300
Birmingham, Alabama 35205
Tel: 205-918-4000
Fax: 205-918-4050

Chain of Custody and Analytical Request

Project Number: 90323203.02

125900

Chain of Custody Number [1]: 3920041

LIMS Number: _____

Facility/Base I.D.: Holman

Project Name / Site Name: Drone Crash

Client Name: USACE

Collected by: Daniel Tucker

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code [2]	Sample Number [3]	Sample Matrix [4]	Number of containers	VOC 8260	SVOC 8270	TPH 8015					Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested [5]								Quality Assurance Samples [6]			
F4WSM-CS01-2	F4WSM	9-32004	1055	2'-2'	N	1	SO	4	✓	✓	✓								1
F4WSM-CS02-2			1102			1													
F4WSM-CS03-2			1106			1													
F4WSM-CS04-2			1110			1													
F4WSM-CS05-2			1118			1													
F4WSM-CS06-2			1126			1													
F4WSM-CS07-2			1135			1													
F4WSM-CS08-2			1145			1													
F4WSM-CS09-2			1156			1													
F4WSM-CS10-2			1205			1													

COMMENTS: fed ex shipper # 8426 0329 5168
fax results to (505) 677-2148

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [signature]	3-9-04	1600	1. [signature]	3/10	10 40
2.			2.		
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: _____ Shipped No.: _____
Method of Shipment: Fed Ex Airbill Number: _____
Analytical Lab: Associated Delivery Location: Orange California
Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)
2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc.), SQ = Soil Blanks
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control)

DISTRIBUTION: WHITE COPY - Project File YELLOW COPY - Lab Copy PINK COPY - Working File

DHATE
Environmental Associates, Inc.
1608 13th Avenue South, Suite 300
Birmingham, Alabama 35205
Tel: 205-918-4000
Fax: 205-918-4050

Chain of Custody and Analytical Request

Project Number: 903232.03.02

Chain of Custody Number (1): 3920042

LIMS Number: 125900

Facility/Base I.D.: Holmn

Project Name / Site Name: Drone Crash

Client Name: USACE

Collected by: Daniel Tucker

Sample Analysis Requested (5) / Quality Assurance Samples (6)

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC 8260	SVOC 8260	TPH 8015						Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
F4WSM-CS11-2	F4WSM	932004	1215	2'-2'	N	1	SO	H	✓	✓	✓									1
F4WSM-CS12-2	↑	↑	1218	2'-2'	↑	↑	↑	↑	↑	↑	↑									↑
F4WSM-CS13-3	↑	↑	1206	3'-3'	↑	↑	↑	↑	↑	↑	↑									↑
F4WSM-CS14-3	↑	↑	1211	3'-3'	↑	↑	↑	↑	↑	↑	↑									↑
				-																
				-																
				-																
				-																
				-																
				-																
				-																

COMMENTS: fed ex shipper # 8426 0329 5168
fax results to (505) 679-2148

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [signature]	3-9-04	1600	1. [signature]	5/10	1040
2.			2.		
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:
Method of Shipment: FedEx Airbill Number:
Analytical Lab: associated Delivery Location: Orange California
Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)
2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc.), SQ = Soil Blanks
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control)

DISTRIBUTION: WHITE COPY - Project File YELLOW COPY - Lab Copy PINK COPY - Working File

ASSOCIATED LABORATORIES

NARRATIVE

Date: March 16, 2004

Narrative for Lab Request LR: 125900

Client Project Identification:
Project: Holmn – Drone Crash
This narrative includes all samples as shown on the attached Lab Request final report.

Analyses Requested:

- EPA 8015 – Carbon Chain I.
- EPA 8260B – Volatile Organic Compounds.
- EPA 8270C – Acid & Base/Neutral Extractables.

Data Validation:

Holding Times
All EPA designated holding times were met.

Calibration
Initial calibration criteria were met for all analytes. Initial and Continuing Calibration Check samples were run at the required frequency. All results were within required limits.

Quality Control Samples
Following is a summary of the QC data, along with an explanation of any samples that were outside QC limits and corrective actions that were taken:

- **EPA 8260:** p-Bromofluorobenzene surrogate recovery was out of control in Samples #424, 425 & 432., due to matrix interference. Corrective action:. The MS/MSD and LCS/LCSD spike recoveries were within control, and all other surrogate recoveries conformed. The QC batch was acceptable, and no corrective action was necessary.

- **EPA 8015 & 8270:** All QC results were within acceptance criteria.

Other Anomalies or Comments
The reporting limit (DLR) is adjusted if dilution of the sample is necessary.

APPENDIX G3

SECOND EXCAVATION CONFIRMATION LABORATORY FORM I DATA

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 FAX 714/538-1209

CLIENT BHATE (10177)
ATTN: Jerry Pelfrey
1111 10th. Street
480
Alamorgordo, NM 88310

LAB REQUEST 126645
REPORTED 03/31/2004
RECEIVED 03/24/2004

PROJECT Drone Crash

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
507983	F4WSMCS15-2
507984	F4WSMCS16-2
507985	F4WSMCS17-2
507986	F4WSMCS18-2
507987	F4WSMCS19-2
507988	F4WSMCS20-2
507989	F4WSMCS21-2
507990	F4WSMCS22-3
507991	F4WSMCS23-3
507992	Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 507983 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS15-2
Date Sampled: 03/23/2004
Time Sampled: 11:00
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8015 Carbon Chain I						
C06 - C10	ND	1	3	mg/Kg	03/24/04	AF
C10 - C22	4.4	1	3	mg/Kg	03/24/04	AF
C22 - C36	ND	1	5	mg/Kg	03/24/04	AF
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,1-Trichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2-Trichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2,3-Trichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dibromoethane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	03/27/04	LB
1,3-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,3-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,4-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1-Chlorohexane	ND	1	5	ug/Kg	03/27/04	LB
2,2-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
2-Butanone (MEK)	ND	1	100	ug/Kg	03/27/04	LB
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	03/27/04	LB
2-Chlorotoluene	ND	1	5	ug/Kg	03/27/04	LB
2-Hexanone	ND	1	5	ug/Kg	03/27/04	LB
4-Chlorotoluene	ND	1	5	ug/Kg	03/27/04	LB
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	03/27/04	LB
Acetone	ND	1	50	ug/Kg	03/27/04	LB
Acetonitrile	ND	1	5	ug/Kg	03/27/04	LB

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507983 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS15-2
Date Sampled: 03/23/2004
Time Sampled: 11:00
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Acrolein	ND	1	200	ug/Kg	03/27/04	LB
Acrylonitrile	ND	1	5	ug/Kg	03/27/04	LB
Allyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Benzene	ND	1	5	ug/Kg	03/27/04	LB
Benzyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Bromobenzene	ND	1	5	ug/Kg	03/27/04	LB
Bromochloromethane	ND	1	5	ug/Kg	03/27/04	LB
Bromodichloromethane	ND	1	5	ug/Kg	03/27/04	LB
Bromoform	ND	1	5	ug/Kg	03/27/04	LB
Bromomethane	ND	1	5	ug/Kg	03/27/04	LB
Carbon Disulfide	ND	1	5	ug/Kg	03/27/04	LB
Carbon tetrachloride	ND	1	5	ug/Kg	03/27/04	LB
Chlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
Chloroethane	ND	1	5	ug/Kg	03/27/04	LB
Chloroform	ND	1	5	ug/Kg	03/27/04	LB
Chloromethane	ND	1	5	ug/Kg	03/27/04	LB
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/27/04	LB
Dibromochloromethane	ND	1	5	ug/Kg	03/27/04	LB
Dibromomethane	ND	1	5	ug/Kg	03/27/04	LB
Dichlorodifluoromethane	ND	1	5	ug/Kg	03/27/04	LB
Ethyl benzene	ND	1	5	ug/Kg	03/27/04	LB
Ethyl methacrylate	ND	1	5	ug/Kg	03/27/04	LB
Hexachlorobutadiene	ND	1	5	ug/Kg	03/27/04	LB
Iodomethane	ND	1	5	ug/Kg	03/27/04	LB
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	03/27/04	LB
Methacrylonitrile	ND	1	5	ug/Kg	03/27/04	LB
Methyl methacrylate	ND	1	5	ug/Kg	03/27/04	LB
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	03/27/04	LB
Methylene chloride	ND	1	5	ug/Kg	03/27/04	LB
n-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB
n-Propylbenzene	ND	1	5	ug/Kg	03/27/04	LB
Naphthalene	ND	1	5	ug/Kg	03/27/04	LB
p-Isopropyltoluene	ND	1	5	ug/Kg	03/27/04	LB
Pentachloroethane	ND	1	5	ug/Kg	03/27/04	LB
Propionitrile	ND	1	5	ug/Kg	03/27/04	LB
sec-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507983 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS15-2
Date Sampled: 03/23/2004
Time Sampled: 11:00
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Styrene	ND	1	5	ug/Kg	03/27/04	LB
tert-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB
Tetrachloroethene	ND	1	5	ug/Kg	03/27/04	LB
Toluene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/27/04	LB
Trichloroethene	ND	1	5	ug/Kg	03/27/04	LB
Trichlorofluoromethane	ND	1	5	ug/Kg	03/27/04	LB
Vinyl acetate	ND	1	50	ug/Kg	03/27/04	LB
Vinyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Xylenes, total	ND	1	5	ug/Kg	03/27/04	LB
Surrogates				**Units**	**Control Limits**	
Surr1 - Dibromofluoromethane	98			%	70 - 135	
Surr2 - 1,2-Dichloroethane-d4	119			%	70 - 135	
Surr3 - Toluene-d8	102			%	70 - 135	
Surr4 - p-Bromofluorobenzene	112			%	70 - 135	
8270C Acid/Base/Neutral Extractables						
1,2,4-Trichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,2-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,3-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,4-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
2,4,5-Trichlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4,6-Trichlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4-Dichlorophenol	ND	1	333	ug/Kg	03/30/04	DP
2,4-Dimethylphenol	ND	1	333	ug/Kg	03/30/04	DP
2,4-Dinitrophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4-Dinitrotoluene	ND	1	333	ug/Kg	03/30/04	DP
2,6-Dinitrotoluene	ND	1	333	ug/Kg	03/30/04	DP
2-Chloronaphthalene	ND	1	333	ug/Kg	03/30/04	DP
2-Chlorophenol	ND	1	333	ug/Kg	03/30/04	DP
2-Methylnaphthalene	ND	1	333	ug/Kg	03/30/04	DP
2-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
2-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
2-Nitrophenol	ND	1	333	ug/Kg	03/30/04	DP
3,3-Dichlorobenzidine	ND	1	333	ug/Kg	03/30/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507983 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS15-2
Date Sampled: 03/23/2004
Time Sampled: 11:00
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
3-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
3-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
4,6-Dinitro-2-methylphenol	ND	1	1665	ug/Kg	03/30/04	DP
4-Bromophenyl-phenylether	ND	1	333	ug/Kg	03/30/04	DP
4-Chloro-3-methylphenol	ND	1	333	ug/Kg	03/30/04	DP
4-Chloroaniline	ND	1	333	ug/Kg	03/30/04	DP
4-Chlorophenyl-phenylether	ND	1	333	ug/Kg	03/30/04	DP
4-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
4-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
4-Nitrophenol	ND	1	1665	ug/Kg	03/30/04	DP
Acenaphthene	ND	1	333	ug/Kg	03/30/04	DP
Acenaphthylene	ND	1	333	ug/Kg	03/30/04	DP
Anthracene	ND	1	333	ug/Kg	03/30/04	DP
Benzidine	ND	1	333	ug/Kg	03/30/04	DP
Benzo(a)anthracene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(a)pyrene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(b)fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(g,h,i)perylene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(k)fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Benzoic Acid	ND	1	333	ug/Kg	03/30/04	DP
Benzyl alcohol	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroethoxy)methane	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroethyl)ether	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroisopropyl) ether	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Ethylhexyl)phthalate	ND	1	333	ug/Kg	03/30/04	DP
Butylbenzylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Chrysene	ND	1	333	ug/Kg	03/30/04	DP
Di-n-butylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Di-n-octylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Dibenz(a,h)anthracene	ND	1	333	ug/Kg	03/30/04	DP
Dibenzofuran	ND	1	333	ug/Kg	03/30/04	DP
Diethylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Dimethylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Fluorene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorobutadiene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorocyclopentadiene	ND	1	333	ug/Kg	03/30/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507983 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS15-2
Date Sampled: 03/23/2004
Time Sampled: 11:00
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
Hexachloroethane	ND	1	333	ug/Kg	03/30/04	DP
Indeno(1,2,3-c,d)pyrene	ND	1	333	ug/Kg	03/30/04	DP
Isophorone	ND	1	333	ug/Kg	03/30/04	DP
N-Nitroso-di-n-propylamine	ND	1	333	ug/Kg	03/30/04	DP
N-Nitrosodiphenylamine	ND	1	333	ug/Kg	03/30/04	DP
Naphthalene	ND	1	333	ug/Kg	03/30/04	DP
Nitrobenzene	ND	1	333	ug/Kg	03/30/04	DP
Pentachlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
Phenanthrene	ND	1	333	ug/Kg	03/30/04	DP
Phenol	ND	1	333	ug/Kg	03/30/04	DP
Pyrene	ND	1	333	ug/Kg	03/30/04	DP

Surrogates		**Units**	**Control Limits**
2,4,6-Tribromophenol (sur)	59	%	17 - 122
2-Fluorobiphenyl (sur)	41	%	30 - 115
2-Fluorophenol (sur)	63	%	25 - 121
Nitrobenzene-d5 (sur)	46	%	23 - 120
Phenol-d5 (sur)	63	%	24 - 113
Terphenyl-d14 (sur)	89	%	18 - 137

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507984 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS16-2
Date Sampled: 03/23/2004
Time Sampled: 11:04
S ed By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8015 Carbon Chain I						
C06 - C10	ND	1	3	mg/Kg	03/25/04	AF
C10 - C22	27	1	3	mg/Kg	03/25/04	AF
C22 - C36	ND	1	5	mg/Kg	03/25/04	AF
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,1-Trichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2-Trichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2,3-Trichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2,4-Trimethylbenzene	1.1 J	1	5	ug/Kg	03/27/04	LB
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dibromoethane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,3,5-Trimethylbenzene	2.3 J	1	5	ug/Kg	03/27/04	LB
1,3-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,3-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,4-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1-Chlorohexane	ND	1	5	ug/Kg	03/27/04	LB
2,2-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
2-Butanone (MEK)	ND	1	100	ug/Kg	03/27/04	LB
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	03/27/04	LB
2-Chlorotoluene	ND	1	5	ug/Kg	03/27/04	LB
2-Hexanone	ND	1	5	ug/Kg	03/27/04	LB
4-Chlorotoluene	ND	1	5	ug/Kg	03/27/04	LB
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	03/27/04	LB
Acetone	ND	1	50	ug/Kg	03/27/04	LB
Acetonitrile	ND	1	5	ug/Kg	03/27/04	LB

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507984 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS16-2
Date Sampled: 03/23/2004
Time Sampled: 11:04
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Acrolein	ND	1	200	ug/Kg	03/27/04	LB
Acrylonitrile	ND	1	5	ug/Kg	03/27/04	LB
Allyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Benzene	ND	1	5	ug/Kg	03/27/04	LB
Benzyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Bromobenzene	ND	1	5	ug/Kg	03/27/04	LB
Bromochloromethane	ND	1	5	ug/Kg	03/27/04	LB
Bromodichloromethane	ND	1	5	ug/Kg	03/27/04	LB
Bromoform	ND	1	5	ug/Kg	03/27/04	LB
Bromomethane	ND	1	5	ug/Kg	03/27/04	LB
Carbon Disulfide	ND	1	5	ug/Kg	03/27/04	LB
Carbon tetrachloride	ND	1	5	ug/Kg	03/27/04	LB
Chlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
Chloroethane	ND	1	5	ug/Kg	03/27/04	LB
Chloroform	ND	1	5	ug/Kg	03/27/04	LB
Chloromethane	ND	1	5	ug/Kg	03/27/04	LB
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/27/04	LB
Dibromochloromethane	ND	1	5	ug/Kg	03/27/04	LB
Dibromomethane	ND	1	5	ug/Kg	03/27/04	LB
Dichlorodifluoromethane	ND	1	5	ug/Kg	03/27/04	LB
Ethyl benzene	ND	1	5	ug/Kg	03/27/04	LB
Ethyl methacrylate	ND	1	5	ug/Kg	03/27/04	LB
Hexachlorobutadiene	ND	1	5	ug/Kg	03/27/04	LB
Iodomethane	ND	1	5	ug/Kg	03/27/04	LB
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	03/27/04	LB
Methacrylonitrile	ND	1	5	ug/Kg	03/27/04	LB
Methyl methacrylate	ND	1	5	ug/Kg	03/27/04	LB
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	03/27/04	LB
Methylene chloride	ND	1	5	ug/Kg	03/27/04	LB
n-Butylbenzene	21	1	5	ug/Kg	03/27/04	LB
n-Propylbenzene	ND	1	5	ug/Kg	03/27/04	LB
Naphthalene	ND	1	5	ug/Kg	03/27/04	LB
p-Isopropyltoluene	5.2	1	5	ug/Kg	03/27/04	LB
Pentachloroethane	ND	1	5	ug/Kg	03/27/04	LB
Propionitrile	ND	1	5	ug/Kg	03/27/04	LB
sec-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507984 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS16-2
Date Sampled: 03/23/2004
Time Sampled: 11:04
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Styrene	ND	1	5	ug/Kg	03/27/04	LB
tert-Butylbenzene	5.3	1	5	ug/Kg	03/27/04	LB
Tetrachloroethene	ND	1	5	ug/Kg	03/27/04	LB
Toluene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/27/04	LB
Trichloroethene	ND	1	5	ug/Kg	03/27/04	LB
Trichlorofluoromethane	ND	1	5	ug/Kg	03/27/04	LB
Vinyl acetate	ND	1	50	ug/Kg	03/27/04	LB
Vinyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Xylenes, total	ND	1	5	ug/Kg	03/27/04	LB
Surrogates				**Units**	**Control Limits**	
Surr1 - Dibromofluoromethane	96			%	70 - 135	
Surr2 - 1,2-Dichloroethane-d4	114			%	70 - 135	
Surr3 - Toluene-d8	109			%	70 - 135	
Surr4 - p-Bromofluorobenzene	124			%	70 - 135	
8270C Acid/Base/Neutral Extractables						
1,2,4-Trichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,2-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,3-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,4-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
2,4,5-Trichlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4,6-Trichlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4-Dichlorophenol	ND	1	333	ug/Kg	03/30/04	DP
2,4-Dimethylphenol	ND	1	333	ug/Kg	03/30/04	DP
2,4-Dinitrophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4-Dinitrotoluene	ND	1	333	ug/Kg	03/30/04	DP
2,6-Dinitrotoluene	ND	1	333	ug/Kg	03/30/04	DP
2-Chloronaphthalene	ND	1	333	ug/Kg	03/30/04	DP
2-Chlorophenol	ND	1	333	ug/Kg	03/30/04	DP
2-Methylnaphthalene	ND	1	333	ug/Kg	03/30/04	DP
2-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
2-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
2-Nitrophenol	ND	1	333	ug/Kg	03/30/04	DP
3,3-Dichlorobenzidine	ND	1	333	ug/Kg	03/30/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507984 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS16-2
Date Sampled: 03/23/2004
Time Sampled: 11:04
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
3-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
3-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
4,6-Dinitro-2-methylphenol	ND	1	1665	ug/Kg	03/30/04	DP
4-Bromophenyl-phenylether	ND	1	333	ug/Kg	03/30/04	DP
4-Chloro-3-methylphenol	ND	1	333	ug/Kg	03/30/04	DP
4-Chloroaniline	ND	1	333	ug/Kg	03/30/04	DP
4-Chlorophenyl-phenylether	ND	1	333	ug/Kg	03/30/04	DP
4-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
4-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
4-Nitrophenol	ND	1	1665	ug/Kg	03/30/04	DP
Acenaphthene	ND	1	333	ug/Kg	03/30/04	DP
Acenaphthylene	ND	1	333	ug/Kg	03/30/04	DP
Anthracene	ND	1	333	ug/Kg	03/30/04	DP
Benzidine	ND	1	333	ug/Kg	03/30/04	DP
Benzo(a)anthracene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(a)pyrene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(b)fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(g,h,i)perylene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(k)fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Benzoic Acid	ND	1	333	ug/Kg	03/30/04	DP
Benzyl alcohol	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroethoxy)methane	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroethyl)ether	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroisopropyl) ether	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Ethylhexyl)phthalate	ND	1	333	ug/Kg	03/30/04	DP
Butylbenzylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Chrysene	ND	1	333	ug/Kg	03/30/04	DP
Di-n-butylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Di-n-octylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Dibenz(a,h)anthracene	ND	1	333	ug/Kg	03/30/04	DP
Dibenzofuran	ND	1	333	ug/Kg	03/30/04	DP
Diethylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Dimethylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Fluorene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorobutadiene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorocyclopentadiene	ND	1	333	ug/Kg	03/30/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507984 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS16-2
Date Sampled: 03/23/2004
Time Sampled: 11:04
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
Hexachloroethane	ND	1	333	ug/Kg	03/30/04	DP
Indeno(1,2,3-c,d)pyrene	ND	1	333	ug/Kg	03/30/04	DP
Isophorone	ND	1	333	ug/Kg	03/30/04	DP
N-Nitroso-di-n-propylamine	ND	1	333	ug/Kg	03/30/04	DP
N-Nitrosodiphenylamine	ND	1	333	ug/Kg	03/30/04	DP
Naphthalene	ND	1	333	ug/Kg	03/30/04	DP
Nitrobenzene	ND	1	333	ug/Kg	03/30/04	DP
Pentachlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
Phenanthrene	ND	1	333	ug/Kg	03/30/04	DP
Phenol	ND	1	333	ug/Kg	03/30/04	DP
Pyrene	ND	1	333	ug/Kg	03/30/04	DP

Surrogates		Units	Control Limits
2,4,6-Tribromophenol (sur)	84	%	17 - 122
2-Fluorobiphenyl (sur)	55	%	30 - 115
2-Fluorophenol (sur)	79	%	25 - 121
Nitrobenzene-d5 (sur)	62	%	23 - 120
Phenol-d5 (sur)	77	%	24 - 113
Terphenyl-d14 (sur)	106	%	18 - 137

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507985 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS17-2
Date Sampled: 03/23/2004
Time Sampled: 11:12
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8015 Carbon Chain I						
C06 - C10	ND	1	3	mg/Kg	03/25/04	AF
C10 - C22	8.0	1	3	mg/Kg	03/25/04	AF
C22 - C36	5.0	1	5	mg/Kg	03/25/04	AF
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,1-Trichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2-Trichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2,3-Trichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dibromoethane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	03/27/04	LB
1,3-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,3-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,4-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1-Chlorohexane	ND	1	5	ug/Kg	03/27/04	LB
2,2-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
2-Butanone (MEK)	ND	1	100	ug/Kg	03/27/04	LB
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	03/27/04	LB
2-Chlorotoluene	ND	1	5	ug/Kg	03/27/04	LB
2-Hexanone	ND	1	5	ug/Kg	03/27/04	LB
4-Chlorotoluene	ND	1	5	ug/Kg	03/27/04	LB
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	03/27/04	LB
Acetone	ND	1	50	ug/Kg	03/27/04	LB
Acetonitrile	ND	1	5	ug/Kg	03/27/04	LB

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507985 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS17-2
Date Sampled: 03/23/2004
Time Sampled: 11:12
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Acrolein	ND	1	200	ug/Kg	03/27/04	LB
Acrylonitrile	ND	1	5	ug/Kg	03/27/04	LB
Allyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Benzene	ND	1	5	ug/Kg	03/27/04	LB
Benzyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Bromobenzene	ND	1	5	ug/Kg	03/27/04	LB
Bromochloromethane	ND	1	5	ug/Kg	03/27/04	LB
Bromodichloromethane	ND	1	5	ug/Kg	03/27/04	LB
Bromoform	ND	1	5	ug/Kg	03/27/04	LB
Bromomethane	ND	1	5	ug/Kg	03/27/04	LB
Carbon Disulfide	ND	1	5	ug/Kg	03/27/04	LB
Carbon tetrachloride	ND	1	5	ug/Kg	03/27/04	LB
Chlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
Chloroethane	ND	1	5	ug/Kg	03/27/04	LB
Chloroform	ND	1	5	ug/Kg	03/27/04	LB
Chloromethane	ND	1	5	ug/Kg	03/27/04	LB
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/27/04	LB
Dibromochloromethane	ND	1	5	ug/Kg	03/27/04	LB
Dibromomethane	ND	1	5	ug/Kg	03/27/04	LB
Dichlorodifluoromethane	ND	1	5	ug/Kg	03/27/04	LB
Ethyl benzene	ND	1	5	ug/Kg	03/27/04	LB
Ethyl methacrylate	ND	1	5	ug/Kg	03/27/04	LB
Hexachlorobutadiene	ND	1	5	ug/Kg	03/27/04	LB
Iodomethane	ND	1	5	ug/Kg	03/27/04	LB
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	03/27/04	LB
Methacrylonitrile	ND	1	5	ug/Kg	03/27/04	LB
Methyl methacrylate	ND	1	5	ug/Kg	03/27/04	LB
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	03/27/04	LB
Methylene chloride	ND	1	5	ug/Kg	03/27/04	LB
n-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB
n-Propylbenzene	ND	1	5	ug/Kg	03/27/04	LB
Naphthalene	ND	1	5	ug/Kg	03/27/04	LB
p-Isopropyltoluene	ND	1	5	ug/Kg	03/27/04	LB
Pentachloroethane	ND	1	5	ug/Kg	03/27/04	LB
Propionitrile	ND	1	5	ug/Kg	03/27/04	LB
sec-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507985 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS17-2
Date Sampled: 03/23/2004
Time Sampled: 11:12
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Styrene	ND	1	5	ug/Kg	03/27/04	LB
tert-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB
Tetrachloroethene	ND	1	5	ug/Kg	03/27/04	LB
Toluene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/27/04	LB
Trichloroethene	ND	1	5	ug/Kg	03/27/04	LB
Trichlorofluoromethane	ND	1	5	ug/Kg	03/27/04	LB
Vinyl acetate	ND	1	50	ug/Kg	03/27/04	LB
Vinyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Xylenes, total	ND	1	5	ug/Kg	03/27/04	LB
Surrogates				**Units**	**Control Limits**	
Surr1 - Dibromofluoromethane	97			%	70 - 135	
Surr2 - 1,2-Dichloroethane-d4	114			%	70 - 135	
Surr3 - Toluene-d8	106			%	70 - 135	
Surr4 - p-Bromofluorobenzene	110			%	70 - 135	
8270C Acid/Base/Neutral Extractables						
1,2,4-Trichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,2-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,3-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,4-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
2,4,5-Trichlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4,6-Trichlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4-Dichlorophenol	ND	1	333	ug/Kg	03/30/04	DP
2,4-Dimethylphenol	ND	1	333	ug/Kg	03/30/04	DP
2,4-Dinitrophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4-Dinitrotoluene	ND	1	333	ug/Kg	03/30/04	DP
2,6-Dinitrotoluene	ND	1	333	ug/Kg	03/30/04	DP
2-Chloronaphthalene	ND	1	333	ug/Kg	03/30/04	DP
2-Chlorophenol	ND	1	333	ug/Kg	03/30/04	DP
2-Methylnaphthalene	ND	1	333	ug/Kg	03/30/04	DP
2-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
2-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
2-Nitrophenol	ND	1	333	ug/Kg	03/30/04	DP
3,3-Dichlorobenzidine	ND	1	333	ug/Kg	03/30/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507985 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS17-2
Date Sampled: 03/23/2004
Time Sampled: 11:12
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
3-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
3-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
4,6-Dinitro-2-methylphenol	ND	1	1665	ug/Kg	03/30/04	DP
4-Bromophenyl-phenylether	ND	1	333	ug/Kg	03/30/04	DP
4-Chloro-3-methylphenol	ND	1	333	ug/Kg	03/30/04	DP
4-Chloroaniline	ND	1	333	ug/Kg	03/30/04	DP
4-Chlorophenyl-phenylether	ND	1	333	ug/Kg	03/30/04	DP
4-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
4-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
4-Nitrophenol	ND	1	1665	ug/Kg	03/30/04	DP
Acenaphthene	ND	1	333	ug/Kg	03/30/04	DP
Acenaphthylene	ND	1	333	ug/Kg	03/30/04	DP
Anthracene	ND	1	333	ug/Kg	03/30/04	DP
Benzidine	ND	1	333	ug/Kg	03/30/04	DP
Benzo(a)anthracene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(a)pyrene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(b)fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(g,h,i)perylene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(k)fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Benzoic Acid	ND	1	333	ug/Kg	03/30/04	DP
Benzyl alcohol	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroethoxy)methane	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroethyl)ether	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroisopropyl) ether	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Ethylhexyl)phthalate	ND	1	333	ug/Kg	03/30/04	DP
Butylbenzylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Chrysene	ND	1	333	ug/Kg	03/30/04	DP
Di-n-butylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Di-n-octylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Dibenz(a,h)anthracene	ND	1	333	ug/Kg	03/30/04	DP
Dibenzofuran	ND	1	333	ug/Kg	03/30/04	DP
Diethylphthalate	1330	1	333	ug/Kg	03/30/04	DP
Dimethylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Fluorene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorobutadiene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorocyclopentadiene	ND	1	333	ug/Kg	03/30/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507985 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS17-2
Date Sampled: 03/23/2004
Time Sampled: 11:12
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
Hexachloroethane	ND	1	333	ug/Kg	03/30/04	DP
Indeno(1,2,3-c,d)pyrene	ND	1	333	ug/Kg	03/30/04	DP
Isophorone	ND	1	333	ug/Kg	03/30/04	DP
N-Nitroso-di-n-propylamine	ND	1	333	ug/Kg	03/30/04	DP
N-Nitrosodiphenylamine	ND	1	333	ug/Kg	03/30/04	DP
Naphthalene	ND	1	333	ug/Kg	03/30/04	DP
Nitrobenzene	ND	1	333	ug/Kg	03/30/04	DP
Pentachlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
Phenanthrene	ND	1	333	ug/Kg	03/30/04	DP
Phenol	ND	1	333	ug/Kg	03/30/04	DP
Pyrene	ND	1	333	ug/Kg	03/30/04	DP

Surrogates		Units	Control Limits
2,4,6-Tribromophenol (sur)	72	%	17 - 122
2-Fluorobiphenyl (sur)	49	%	30 - 115
2-Fluorophenol (sur)	78	%	25 - 121
Nitrobenzene-d5 (sur)	55	%	23 - 120
Phenol-d5 (sur)	75	%	24 - 113
Terphenyl-d14 (sur)	109	%	18 - 137

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507986 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS18-2
Date Sampled: 03/23/2004
Time Sampled: 11:19
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8015 Carbon Chain I						
C06 - C10	ND	1	3	mg/Kg	03/26/04	AF
C10 - C22	ND	1	3	mg/Kg	03/26/04	AF
C22 - C36	ND	1	5	mg/Kg	03/26/04	AF
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,1-Trichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2-Trichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2,3-Trichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dibromoethane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	03/27/04	LB
1,3-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,3-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,4-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1-Chlorohexane	ND	1	5	ug/Kg	03/27/04	LB
2,2-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
2-Butanone (MEK)	ND	1	100	ug/Kg	03/27/04	LB
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	03/27/04	LB
2-Chlorotoluene	ND	1	5	ug/Kg	03/27/04	LB
2-Hexanone	ND	1	5	ug/Kg	03/27/04	LB
4-Chlorotoluene	ND	1	5	ug/Kg	03/27/04	LB
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	03/27/04	LB
Acetone	ND	1	50	ug/Kg	03/27/04	LB
Acetonitrile	ND	1	5	ug/Kg	03/27/04	LB

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507986 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS18-2
Date Sampled: 03/23/2004
Time Sampled: 11:19
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Acrolein	ND	1	200	ug/Kg	03/27/04	LB
Acrylonitrile	ND	1	5	ug/Kg	03/27/04	LB
Allyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Benzene	ND	1	5	ug/Kg	03/27/04	LB
Benzyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Bromobenzene	ND	1	5	ug/Kg	03/27/04	LB
Bromochloromethane	ND	1	5	ug/Kg	03/27/04	LB
Bromodichloromethane	ND	1	5	ug/Kg	03/27/04	LB
Bromoform	ND	1	5	ug/Kg	03/27/04	LB
Bromomethane	ND	1	5	ug/Kg	03/27/04	LB
Carbon Disulfide	ND	1	5	ug/Kg	03/27/04	LB
Carbon tetrachloride	ND	1	5	ug/Kg	03/27/04	LB
Chlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
Chloroethane	ND	1	5	ug/Kg	03/27/04	LB
Chloroform	ND	1	5	ug/Kg	03/27/04	LB
Chloromethane	ND	1	5	ug/Kg	03/27/04	LB
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/27/04	LB
Dibromochloromethane	ND	1	5	ug/Kg	03/27/04	LB
Dibromomethane	ND	1	5	ug/Kg	03/27/04	LB
Dichlorodifluoromethane	ND	1	5	ug/Kg	03/27/04	LB
Ethyl benzene	ND	1	5	ug/Kg	03/27/04	LB
Ethyl methacrylate	ND	1	5	ug/Kg	03/27/04	LB
Hexachlorobutadiene	ND	1	5	ug/Kg	03/27/04	LB
Iodomethane	ND	1	5	ug/Kg	03/27/04	LB
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	03/27/04	LB
Methacrylonitrile	ND	1	5	ug/Kg	03/27/04	LB
Methyl methacrylate	ND	1	5	ug/Kg	03/27/04	LB
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	03/27/04	LB
Methylene chloride	ND	1	5	ug/Kg	03/27/04	LB
n-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB
n-Propylbenzene	ND	1	5	ug/Kg	03/27/04	LB
Naphthalene	ND	1	5	ug/Kg	03/27/04	LB
p-Isopropyltoluene	ND	1	5	ug/Kg	03/27/04	LB
Pentachloroethane	ND	1	5	ug/Kg	03/27/04	LB
Propionitrile	ND	1	5	ug/Kg	03/27/04	LB
sec-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507986 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS18-2
Date Sampled: 03/23/2004
Time Sampled: 11:19
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Styrene	ND	1	5	ug/Kg	03/27/04	LB
tert-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB
Tetrachloroethene	ND	1	5	ug/Kg	03/27/04	LB
Toluene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/27/04	LB
Trichloroethene	ND	1	5	ug/Kg	03/27/04	LB
Trichlorofluoromethane	ND	1	5	ug/Kg	03/27/04	LB
Vinyl acetate	ND	1	50	ug/Kg	03/27/04	LB
Vinyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Xylenes, total	ND	1	5	ug/Kg	03/27/04	LB
Surrogates				**Units**	**Control Limits**	
Surr1 - Dibromofluoromethane	97			%	70 - 135	
Surr2 - 1,2-Dichloroethane-d4	112			%	70 - 135	
Surr3 - Toluene-d8	107			%	70 - 135	
Surr4 - p-Bromofluorobenzene	110			%	70 - 135	
8270C Acid/Base/Neutral Extractables						
1,2,4-Trichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,2-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,3-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,4-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
2,4,5-Trichlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4,6-Trichlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4-Dichlorophenol	ND	1	333	ug/Kg	03/30/04	DP
2,4-Dimethylphenol	ND	1	333	ug/Kg	03/30/04	DP
2,4-Dinitrophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4-Dinitrotoluene	ND	1	333	ug/Kg	03/30/04	DP
2,6-Dinitrotoluene	ND	1	333	ug/Kg	03/30/04	DP
2-Chloronaphthalene	ND	1	333	ug/Kg	03/30/04	DP
2-Chlorophenol	ND	1	333	ug/Kg	03/30/04	DP
2-Methylnaphthalene	ND	1	333	ug/Kg	03/30/04	DP
2-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
2-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
2-Nitrophenol	ND	1	333	ug/Kg	03/30/04	DP
3,3-Dichlorobenzidine	ND	1	333	ug/Kg	03/30/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507986 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS18-2
Date Sampled: 03/23/2004
Time Sampled: 11:19
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
3-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
3-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
4,6-Dinitro-2-methylphenol	ND	1	1665	ug/Kg	03/30/04	DP
4-Bromophenyl-phenylether	ND	1	333	ug/Kg	03/30/04	DP
4-Chloro-3-methylphenol	ND	1	333	ug/Kg	03/30/04	DP
4-Chloroaniline	ND	1	333	ug/Kg	03/30/04	DP
4-Chlorophenyl-phenylether	ND	1	333	ug/Kg	03/30/04	DP
4-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
4-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
4-Nitrophenol	ND	1	1665	ug/Kg	03/30/04	DP
Acenaphthene	ND	1	333	ug/Kg	03/30/04	DP
Acenaphthylene	ND	1	333	ug/Kg	03/30/04	DP
Anthracene	ND	1	333	ug/Kg	03/30/04	DP
Benzidine	ND	1	333	ug/Kg	03/30/04	DP
Benzo(a)anthracene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(a)pyrene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(b)fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(g,h,i)perylene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(k)fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Benzoic Acid	ND	1	333	ug/Kg	03/30/04	DP
Benzyl alcohol	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroethoxy)methane	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroethyl)ether	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroisopropyl) ether	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Ethylhexyl)phthalate	ND	1	333	ug/Kg	03/30/04	DP
Butylbenzylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Chrysene	ND	1	333	ug/Kg	03/30/04	DP
Di-n-butylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Di-n-octylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Dibenz(a,h)anthracene	ND	1	333	ug/Kg	03/30/04	DP
Dibenzofuran	ND	1	333	ug/Kg	03/30/04	DP
Diethylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Dimethylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Fluorene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorobutadiene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorocyclopentadiene	ND	1	333	ug/Kg	03/30/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507986 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS18-2
Date Sampled: 03/23/2004
Time Sampled: 11:19
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
Hexachloroethane	ND	1	333	ug/Kg	03/30/04	DP
Indeno(1,2,3-c,d)pyrene	ND	1	333	ug/Kg	03/30/04	DP
Isophorone	ND	1	333	ug/Kg	03/30/04	DP
N-Nitroso-di-n-propylamine	ND	1	333	ug/Kg	03/30/04	DP
N-Nitrosodiphenylamine	ND	1	333	ug/Kg	03/30/04	DP
Naphthalene	ND	1	333	ug/Kg	03/30/04	DP
Nitrobenzene	ND	1	333	ug/Kg	03/30/04	DP
Pentachlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
Phenanthrene	ND	1	333	ug/Kg	03/30/04	DP
Phenol	ND	1	333	ug/Kg	03/30/04	DP
Pyrene	ND	1	333	ug/Kg	03/30/04	DP

Surrogates		Units	Control Limits
2,4,6-Tribromophenol (sur)	75	%	17 - 122
2-Fluorobiphenyl (sur)	55	%	30 - 115
2-Fluorophenol (sur)	88	%	25 - 121
Nitrobenzene-d5 (sur)	63	%	23 - 120
Phenol-d5 (sur)	86	%	24 - 113
Terphenyl-d14 (sur)	117	%	18 - 137

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507987 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS19-2
Date Sampled: 03/23/2004
Time Sampled: 11:25
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8015 Carbon Chain I						
C06 - C10	11	1	3	mg/Kg	03/25/04	AF
C10 - C22	413	20	60.0	mg/Kg	03/25/04	AF
C22 - C36	ND	1	5	mg/Kg	03/25/04	AF
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,1-Trichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2-Trichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2,3-Trichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2,4-Trimethylbenzene	2.1 J	1	5	ug/Kg	03/27/04	LB
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dibromoethane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	03/27/04	LB
1,3-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,3-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,4-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1-Chlorohexane	ND	1	5	ug/Kg	03/27/04	LB
2,2-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
2-Butanone (MEK)	ND	1	100	ug/Kg	03/27/04	LB
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	03/27/04	LB
2-Chlorotoluene	ND	1	5	ug/Kg	03/27/04	LB
2-Hexanone	ND	1	5	ug/Kg	03/27/04	LB
4-Chlorotoluene	ND	1	5	ug/Kg	03/27/04	LB
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	03/27/04	LB
Acetone	ND	1	50	ug/Kg	03/27/04	LB
Acetonitrile	ND	1	5	ug/Kg	03/27/04	LB

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507987 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS19-2
Date Sampled: 03/23/2004
Time Sampled: 11:25
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Acrolein	ND	1	200	ug/Kg	03/27/04	LB
Acrylonitrile	ND	1	5	ug/Kg	03/27/04	LB
Allyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Benzene	ND	1	5	ug/Kg	03/27/04	LB
Benzyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Bromobenzene	ND	1	5	ug/Kg	03/27/04	LB
Bromochloromethane	ND	1	5	ug/Kg	03/27/04	LB
Bromodichloromethane	ND	1	5	ug/Kg	03/27/04	LB
Bromoform	ND	1	5	ug/Kg	03/27/04	LB
Bromomethane	ND	1	5	ug/Kg	03/27/04	LB
Carbon Disulfide	ND	1	5	ug/Kg	03/27/04	LB
Carbon tetrachloride	ND	1	5	ug/Kg	03/27/04	LB
Chlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
Chloroethane	ND	1	5	ug/Kg	03/27/04	LB
Chloroform	ND	1	5	ug/Kg	03/27/04	LB
Chloromethane	ND	1	5	ug/Kg	03/27/04	LB
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/27/04	LB
Dibromochloromethane	ND	1	5	ug/Kg	03/27/04	LB
Dibromomethane	ND	1	5	ug/Kg	03/27/04	LB
Dichlorodifluoromethane	ND	1	5	ug/Kg	03/27/04	LB
Ethyl benzene	ND	1	5	ug/Kg	03/27/04	LB
Ethyl methacrylate	ND	1	5	ug/Kg	03/27/04	LB
Hexachlorobutadiene	ND	1	5	ug/Kg	03/27/04	LB
Iodomethane	ND	1	5	ug/Kg	03/27/04	LB
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	03/27/04	LB
Methacrylonitrile	ND	1	5	ug/Kg	03/27/04	LB
Methyl methacrylate	ND	1	5	ug/Kg	03/27/04	LB
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	03/27/04	LB
Methylene chloride	ND	1	5	ug/Kg	03/27/04	LB
n-Butylbenzene	2.7 J	1	5	ug/Kg	03/27/04	LB
n-Propylbenzene	ND	1	5	ug/Kg	03/27/04	LB
Naphthalene	ND	1	5	ug/Kg	03/27/04	LB
p-Isopropyltoluene	1.2 J	1	5	ug/Kg	03/27/04	LB
Pentachloroethane	ND	1	5	ug/Kg	03/27/04	LB
Propionitrile	ND	1	5	ug/Kg	03/27/04	LB
sec-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507987 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS19-2
Date Sampled: 03/23/2004
Time Sampled: 11:25
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Styrene	ND	1	5	ug/Kg	03/27/04	LB
tert-Butylbenzene	1.2 J	1	5	ug/Kg	03/27/04	LB
Tetrachloroethene	ND	1	5	ug/Kg	03/27/04	LB
Toluene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/27/04	LB
Trichloroethene	ND	1	5	ug/Kg	03/27/04	LB
Trichlorofluoromethane	ND	1	5	ug/Kg	03/27/04	LB
Vinyl acetate	ND	1	50	ug/Kg	03/27/04	LB
Vinyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Xylenes, total	ND	1	5	ug/Kg	03/27/04	LB
Surrogates				**Units**	**Control Limits**	
Surr1 - Dibromofluoromethane	99			%	70 - 135	
Surr2 - 1,2-Dichloroethane-d4	116			%	70 - 135	
Surr3 - Toluene-d8	103			%	70 - 135	
Surr4 - p-Bromofluorobenzene	107			%	70 - 135	
8270C Acid/Base/Neutral Extractables						
1,2,4-Trichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,2-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,3-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,4-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
2,4,5-Trichlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4,6-Trichlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4-Dichlorophenol	ND	1	333	ug/Kg	03/30/04	DP
2,4-Dimethylphenol	ND	1	333	ug/Kg	03/30/04	DP
2,4-Dinitrophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4-Dinitrotoluene	ND	1	333	ug/Kg	03/30/04	DP
2,6-Dinitrotoluene	ND	1	333	ug/Kg	03/30/04	DP
2-Chloronaphthalene	ND	1	333	ug/Kg	03/30/04	DP
2-Chlorophenol	ND	1	333	ug/Kg	03/30/04	DP
2-Methylnaphthalene	1690	1	333	ug/Kg	03/30/04	DP
2-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
2-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
2-Nitrophenol	ND	1	333	ug/Kg	03/30/04	DP
3,3-Dichlorobenzidine	ND	1	333	ug/Kg	03/30/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507987 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS19-2
Date Sampled: 03/23/2004
Time Sampled: 11:25
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
3-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
3-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
4,6-Dinitro-2-methylphenol	ND	1	1665	ug/Kg	03/30/04	DP
4-Bromophenyl-phenylether	ND	1	333	ug/Kg	03/30/04	DP
4-Chloro-3-methylphenol	ND	1	333	ug/Kg	03/30/04	DP
4-Chloroaniline	ND	1	333	ug/Kg	03/30/04	DP
4-Chlorophenyl-phenylether	ND	1	333	ug/Kg	03/30/04	DP
4-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
4-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
4-Nitrophenol	ND	1	1665	ug/Kg	03/30/04	DP
Acenaphthene	ND	1	333	ug/Kg	03/30/04	DP
Acenaphthylene	ND	1	333	ug/Kg	03/30/04	DP
Anthracene	ND	1	333	ug/Kg	03/30/04	DP
Benzidine	ND	1	333	ug/Kg	03/30/04	DP
Benzo(a)anthracene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(a)pyrene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(b)fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(g,h,i)perylene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(k)fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Benzoic Acid	ND	1	333	ug/Kg	03/30/04	DP
Benzyl alcohol	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroethoxy)methane	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroethyl)ether	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroisopropyl) ether	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Ethylhexyl)phthalate	1840	1	333	ug/Kg	03/30/04	DP
Butylbenzylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Chrysene	ND	1	333	ug/Kg	03/30/04	DP
Di-n-butylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Di-n-octylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Dibenz(a,h)anthracene	ND	1	333	ug/Kg	03/30/04	DP
Dibenzofuran	ND	1	333	ug/Kg	03/30/04	DP
Diethylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Dimethylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Fluorene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorobutadiene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorocyclopentadiene	ND	1	333	ug/Kg	03/30/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507987 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS19-2
Date Sampled: 03/23/2004
Time Sampled: 11:25
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
Hexachloroethane	ND	1	333	ug/Kg	03/30/04	DP
Indeno(1,2,3-c,d)pyrene	ND	1	333	ug/Kg	03/30/04	DP
Isophorone	ND	1	333	ug/Kg	03/30/04	DP
N-Nitroso-di-n-propylamine	ND	1	333	ug/Kg	03/30/04	DP
N-Nitrosodiphenylamine	ND	1	333	ug/Kg	03/30/04	DP
Naphthalene	402	1	333	ug/Kg	03/30/04	DP
Nitrobenzene	ND	1	333	ug/Kg	03/30/04	DP
Pentachlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
Phenanthrene	ND	1	333	ug/Kg	03/30/04	DP
Phenol	ND	1	333	ug/Kg	03/30/04	DP
Pyrene	ND	1	333	ug/Kg	03/30/04	DP

Surrogates		**Units**	**Control Limits**
2,4,6-Tribromophenol (sur)	86	%	17 - 122
2-Fluorobiphenyl (sur)	79	%	30 - 115
2-Fluorophenol (sur)	92	%	25 - 121
Nitrobenzene-d5 (sur)	76	%	23 - 120
Phenol-d5 (sur)	102	%	24 - 113
Terphenyl-d14 (sur)	114	%	18 - 137

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507988 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS20-2
Date Sampled: 03/23/2004
Time Sampled: 11:29
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8015 Carbon Chain I						
C06 - C10	ND	1	3	mg/Kg	03/25/04	AF
C10 - C22	ND	1	3	mg/Kg	03/25/04	AF
C22 - C36	ND	1	5	mg/Kg	03/25/04	AF
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,1-Trichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2-Trichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2,3-Trichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2,4-Trimethylbenzene	1.5 J	1	5	ug/Kg	03/27/04	LB
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dibromoethane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	03/27/04	LB
1,3-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,3-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,4-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1-Chlorohexane	ND	1	5	ug/Kg	03/27/04	LB
2,2-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
2-Butanone (MEK)	ND	1	100	ug/Kg	03/27/04	LB
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	03/27/04	LB
2-Chlorotoluene	ND	1	5	ug/Kg	03/27/04	LB
2-Hexanone	ND	1	5	ug/Kg	03/27/04	LB
4-Chlorotoluene	ND	1	5	ug/Kg	03/27/04	LB
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	03/27/04	LB
Acetone	ND	1	50	ug/Kg	03/27/04	LB
Acetonitrile	ND	1	5	ug/Kg	03/27/04	LB

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507988 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS20-2
Date Sampled: 03/23/2004
Time Sampled: 11:29
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Acrolein	ND	1	200	ug/Kg	03/27/04	LB
Acrylonitrile	ND	1	5	ug/Kg	03/27/04	LB
Allyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Benzene	ND	1	5	ug/Kg	03/27/04	LB
Benzyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Bromobenzene	ND	1	5	ug/Kg	03/27/04	LB
Bromochloromethane	ND	1	5	ug/Kg	03/27/04	LB
Bromodichloromethane	ND	1	5	ug/Kg	03/27/04	LB
Bromoform	ND	1	5	ug/Kg	03/27/04	LB
Bromomethane	ND	1	5	ug/Kg	03/27/04	LB
Carbon Disulfide	ND	1	5	ug/Kg	03/27/04	LB
Carbon tetrachloride	ND	1	5	ug/Kg	03/27/04	LB
Chlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
Chloroethane	ND	1	5	ug/Kg	03/27/04	LB
Chloroform	ND	1	5	ug/Kg	03/27/04	LB
Chloromethane	ND	1	5	ug/Kg	03/27/04	LB
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/27/04	LB
Dibromochloromethane	ND	1	5	ug/Kg	03/27/04	LB
Dibromomethane	ND	1	5	ug/Kg	03/27/04	LB
Dichlorodifluoromethane	ND	1	5	ug/Kg	03/27/04	LB
Ethyl benzene	ND	1	5	ug/Kg	03/27/04	LB
Ethyl methacrylate	ND	1	5	ug/Kg	03/27/04	LB
Hexachlorobutadiene	ND	1	5	ug/Kg	03/27/04	LB
Iodomethane	ND	1	5	ug/Kg	03/27/04	LB
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	03/27/04	LB
Methacrylonitrile	ND	1	5	ug/Kg	03/27/04	LB
Methyl methacrylate	ND	1	5	ug/Kg	03/27/04	LB
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	03/27/04	LB
Methylene chloride	ND	1	5	ug/Kg	03/27/04	LB
n-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB
n-Propylbenzene	ND	1	5	ug/Kg	03/27/04	LB
Naphthalene	ND	1	5	ug/Kg	03/27/04	LB
p-Isopropyltoluene	ND	1	5	ug/Kg	03/27/04	LB
Pentachloroethane	ND	1	5	ug/Kg	03/27/04	LB
Propionitrile	ND	1	5	ug/Kg	03/27/04	LB
sec-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507988 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS20-2
Date Sampled: 03/23/2004
Time Sampled: 11:29
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Styrene	ND	1	5	ug/Kg	03/27/04	LB
tert-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB
Tetrachloroethene	ND	1	5	ug/Kg	03/27/04	LB
Toluene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/27/04	LB
Trichloroethene	ND	1	5	ug/Kg	03/27/04	LB
Trichlorofluoromethane	ND	1	5	ug/Kg	03/27/04	LB
Vinyl acetate	ND	1	50	ug/Kg	03/27/04	LB
Vinyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Xylenes, total	ND	1	5	ug/Kg	03/27/04	LB
Surrogates				**Units**	**Control Limits**	
Surr1 - Dibromofluoromethane	99			%	70 - 135	
Surr2 - 1,2-Dichloroethane-d4	115			%	70 - 135	
Surr3 - Toluene-d8	105			%	70 - 135	
Surr4 - p-Bromofluorobenzene	107			%	70 - 135	
8270C Acid/Base/Neutral Extractables						
1,2,4-Trichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,2-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,3-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,4-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
2,4,5-Trichlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4,6-Trichlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4-Dichlorophenol	ND	1	333	ug/Kg	03/30/04	DP
2,4-Dimethylphenol	ND	1	333	ug/Kg	03/30/04	DP
2,4-Dinitrophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4-Dinitrotoluene	ND	1	333	ug/Kg	03/30/04	DP
2,6-Dinitrotoluene	ND	1	333	ug/Kg	03/30/04	DP
2-Chloronaphthalene	ND	1	333	ug/Kg	03/30/04	DP
2-Chlorophenol	ND	1	333	ug/Kg	03/30/04	DP
2-Methylnaphthalene	ND	1	333	ug/Kg	03/30/04	DP
2-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
2-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
2-Nitrophenol	ND	1	333	ug/Kg	03/30/04	DP
3,3-Dichlorobenzidine	ND	1	333	ug/Kg	03/30/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507988 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS20-2
Date Sampled: 03/23/2004
Time Sampled: 11:29
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
3-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
3-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
4,6-Dinitro-2-methylphenol	ND	1	1665	ug/Kg	03/30/04	DP
4-Bromophenyl-phenylether	ND	1	333	ug/Kg	03/30/04	DP
4-Chloro-3-methylphenol	ND	1	333	ug/Kg	03/30/04	DP
4-Chloroaniline	ND	1	333	ug/Kg	03/30/04	DP
4-Chlorophenyl-phenylether	ND	1	333	ug/Kg	03/30/04	DP
4-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
4-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
4-Nitrophenol	ND	1	1665	ug/Kg	03/30/04	DP
Acenaphthene	ND	1	333	ug/Kg	03/30/04	DP
Acenaphthylene	ND	1	333	ug/Kg	03/30/04	DP
Anthracene	ND	1	333	ug/Kg	03/30/04	DP
Benzidine	ND	1	333	ug/Kg	03/30/04	DP
Benzo(a)anthracene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(a)pyrene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(b)fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(g,h,i)perylene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(k)fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Benzoic Acid	ND	1	333	ug/Kg	03/30/04	DP
Benzyl alcohol	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroethoxy)methane	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroethyl)ether	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroisopropyl) ether	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Ethylhexyl)phthalate	ND	1	333	ug/Kg	03/30/04	DP
Butylbenzylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Chrysene	ND	1	333	ug/Kg	03/30/04	DP
Di-n-butylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Di-n-octylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Dibenz(a,h)anthracene	ND	1	333	ug/Kg	03/30/04	DP
Dibenzofuran	ND	1	333	ug/Kg	03/30/04	DP
Diethylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Dimethylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Fluorene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorobutadiene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorocyclopentadiene	ND	1	333	ug/Kg	03/30/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507988 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS20-2
Date Sampled: 03/23/2004
Time Sampled: 11:29
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
Hexachloroethane	ND	1	333	ug/Kg	03/30/04	DP
Indeno(1,2,3-c,d)pyrene	ND	1	333	ug/Kg	03/30/04	DP
Isophorone	ND	1	333	ug/Kg	03/30/04	DP
N-Nitroso-di-n-propylamine	ND	1	333	ug/Kg	03/30/04	DP
N-Nitrosodiphenylamine	ND	1	333	ug/Kg	03/30/04	DP
Naphthalene	ND	1	333	ug/Kg	03/30/04	DP
Nitrobenzene	ND	1	333	ug/Kg	03/30/04	DP
Pentachlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
Phenanthrene	ND	1	333	ug/Kg	03/30/04	DP
Phenol	ND	1	333	ug/Kg	03/30/04	DP
Pyrene	ND	1	333	ug/Kg	03/30/04	DP

Surrogates		Units	Control Limits
2,4,6-Tribromophenol (sur)	65	%	17 - 122
2-Fluorobiphenyl (sur)	50	%	30 - 115
2-Fluorophenol (sur)	71	%	25 - 121
Nitrobenzene-d5 (sur)	51	%	23 - 120
Phenol-d5 (sur)	75	%	24 - 113
Terphenyl-d14 (sur)	92	%	18 - 137

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507989 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS21-2
Date Sampled: 03/23/2004
Time Sampled: 11:34
S[illegible]ed By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8015 Carbon Chain I						
C06 - C10	ND	1	3	mg/Kg	03/25/04	AF
C10 - C22	ND	1	3	mg/Kg	03/25/04	AF
C22 - C36	ND	1	5	mg/Kg	03/25/04	AF
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,1-Trichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2-Trichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2,3-Trichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2,4-Trimethylbenzene	6.1	1	5	ug/Kg	03/27/04	LB
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dibromoethane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,3,5-Trimethylbenzene	1.2 J	1	5	ug/Kg	03/27/04	LB
1,3-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,3-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,4-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1-Chlorohexane	ND	1	5	ug/Kg	03/27/04	LB
2,2-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
2-Butanone (MEK)	ND	1	100	ug/Kg	03/27/04	LB
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	03/27/04	LB
2-Chlorotoluene	ND	1	5	ug/Kg	03/27/04	LB
2-Hexanone	ND	1	5	ug/Kg	03/27/04	LB
4-Chlorotoluene	ND	1	5	ug/Kg	03/27/04	LB
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	03/27/04	LB
Acetone	ND	1	50	ug/Kg	03/27/04	LB
Acetonitrile	ND	1	5	ug/Kg	03/27/04	LB

DL[illegible] Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507989 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS21-2
Date Sampled: 03/23/2004
Time Sampled: 11:34
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Acrolein	ND	1	200	ug/Kg	03/27/04	LB
Acrylonitrile	ND	1	5	ug/Kg	03/27/04	LB
Allyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Benzene	ND	1	5	ug/Kg	03/27/04	LB
Benzyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Bromobenzene	ND	1	5	ug/Kg	03/27/04	LB
Bromochloromethane	ND	1	5	ug/Kg	03/27/04	LB
Bromodichloromethane	ND	1	5	ug/Kg	03/27/04	LB
Bromoform	ND	1	5	ug/Kg	03/27/04	LB
Bromomethane	ND	1	5	ug/Kg	03/27/04	LB
Carbon Disulfide	ND	1	5	ug/Kg	03/27/04	LB
Carbon tetrachloride	ND	1	5	ug/Kg	03/27/04	LB
Chlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
Chloroethane	ND	1	5	ug/Kg	03/27/04	LB
Chloroform	ND	1	5	ug/Kg	03/27/04	LB
Chloromethane	ND	1	5	ug/Kg	03/27/04	LB
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/27/04	LB
Dibromochloromethane	ND	1	5	ug/Kg	03/27/04	LB
Dibromomethane	ND	1	5	ug/Kg	03/27/04	LB
Dichlorodifluoromethane	ND	1	5	ug/Kg	03/27/04	LB
Ethyl benzene	ND	1	5	ug/Kg	03/27/04	LB
Ethyl methacrylate	ND	1	5	ug/Kg	03/27/04	LB
Hexachlorobutadiene	ND	1	5	ug/Kg	03/27/04	LB
Iodomethane	ND	1	5	ug/Kg	03/27/04	LB
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	03/27/04	LB
Methacrylonitrile	ND	1	5	ug/Kg	03/27/04	LB
Methyl methacrylate	ND	1	5	ug/Kg	03/27/04	LB
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	03/27/04	LB
Methylene chloride	ND	1	5	ug/Kg	03/27/04	LB
n-Butylbenzene	1.3 J	1	5	ug/Kg	03/27/04	LB
n-Propylbenzene	ND	1	5	ug/Kg	03/27/04	LB
Naphthalene	9.4	1	5	ug/Kg	03/27/04	LB
p-Isopropyltoluene	1.2 J	1	5	ug/Kg	03/27/04	LB
Pentachloroethane	ND	1	5	ug/Kg	03/27/04	LB
Propionitrile	ND	1	5	ug/Kg	03/27/04	LB
sec-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507989 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS21-2
Date Sampled: 03/23/2004
Time Sampled: 11:34
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Styrene	ND	1	5	ug/Kg	03/27/04	LB
tert-Butylbenzene	1.1 J	1	5	ug/Kg	03/27/04	LB
Tetrachloroethene	ND	1	5	ug/Kg	03/27/04	LB
Toluene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/27/04	LB
Trichloroethene	ND	1	5	ug/Kg	03/27/04	LB
Trichlorofluoromethane	ND	1	5	ug/Kg	03/27/04	LB
Vinyl acetate	ND	1	50	ug/Kg	03/27/04	LB
Vinyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Xylenes, total	1.2 J	1	5	ug/Kg	03/27/04	LB
Surrogates				**Units**	**Control Limits**	
Surr1 - Dibromofluoromethane	96			%	70 - 135	
Surr2 - 1,2-Dichloroethane-d4	114			%	70 - 135	
Surr3 - Toluene-d8	107			%	70 - 135	
Surr4 - p-Bromofluorobenzene	111			%	70 - 135	
8270C Acid/Base/Neutral Extractables						
1,2,4-Trichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,2-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,3-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,4-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
2,4,5-Trichlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4,6-Trichlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4-Dichlorophenol	ND	1	333	ug/Kg	03/30/04	DP
2,4-Dimethylphenol	ND	1	333	ug/Kg	03/30/04	DP
2,4-Dinitrophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4-Dinitrotoluene	ND	1	333	ug/Kg	03/30/04	DP
2,6-Dinitrotoluene	ND	1	333	ug/Kg	03/30/04	DP
2-Chloronaphthalene	ND	1	333	ug/Kg	03/30/04	DP
2-Chlorophenol	ND	1	333	ug/Kg	03/30/04	DP
2-Methylnaphthalene	ND	1	333	ug/Kg	03/30/04	DP
2-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
2-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
2-Nitrophenol	ND	1	333	ug/Kg	03/30/04	DP
3,3-Dichlorobenzidine	ND	1	333	ug/Kg	03/30/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507989 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS21-2
Date Sampled: 03/23/2004
Time Sampled: 11:34
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
3-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
3-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
4,6-Dinitro-2-methylphenol	ND	1	1665	ug/Kg	03/30/04	DP
4-Bromophenyl-phenylether	ND	1	333	ug/Kg	03/30/04	DP
4-Chloro-3-methylphenol	ND	1	333	ug/Kg	03/30/04	DP
4-Chloroaniline	ND	1	333	ug/Kg	03/30/04	DP
4-Chlorophenyl-phenylether	ND	1	333	ug/Kg	03/30/04	DP
4-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
4-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
4-Nitrophenol	ND	1	1665	ug/Kg	03/30/04	DP
Acenaphthene	ND	1	333	ug/Kg	03/30/04	DP
Acenaphthylene	ND	1	333	ug/Kg	03/30/04	DP
Anthracene	ND	1	333	ug/Kg	03/30/04	DP
Benzidine	ND	1	333	ug/Kg	03/30/04	DP
Benzo(a)anthracene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(a)pyrene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(b)fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(g,h,i)perylene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(k)fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Benzoic Acid	ND	1	333	ug/Kg	03/30/04	DP
Benzyl alcohol	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroethoxy)methane	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroethyl)ether	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroisopropyl) ether	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Ethylhexyl)phthalate	ND	1	333	ug/Kg	03/30/04	DP
Butylbenzylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Chrysene	ND	1	333	ug/Kg	03/30/04	DP
Di-n-butylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Di-n-octylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Dibenz(a,h)anthracene	ND	1	333	ug/Kg	03/30/04	DP
Dibenzofuran	ND	1	333	ug/Kg	03/30/04	DP
Diethylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Dimethylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Fluorene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorobutadiene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorocyclopentadiene	ND	1	333	ug/Kg	03/30/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507989 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS21-2
Date Sampled: 03/23/2004
Time Sampled: 11:34
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
Hexachloroethane	ND	1	333	ug/Kg	03/30/04	DP
Indeno(1,2,3-c,d)pyrene	ND	1	333	ug/Kg	03/30/04	DP
Isophorone	ND	1	333	ug/Kg	03/30/04	DP
N-Nitroso-di-n-propylamine	ND	1	333	ug/Kg	03/30/04	DP
N-Nitrosodiphenylamine	ND	1	333	ug/Kg	03/30/04	DP
Naphthalene	ND	1	333	ug/Kg	03/30/04	DP
Nitrobenzene	ND	1	333	ug/Kg	03/30/04	DP
Pentachlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
Phenanthrene	ND	1	333	ug/Kg	03/30/04	DP
Phenol	ND	1	333	ug/Kg	03/30/04	DP
Pyrene	ND	1	333	ug/Kg	03/30/04	DP

Surrogates		Units	Control Limits
2,4,6-Tribromophenol (sur)	77	%	17 - 122
2-Fluorobiphenyl (sur)	49	%	30 - 115
2-Fluorophenol (sur)	70	%	25 - 121
Nitrobenzene-d5 (sur)	52	%	23 - 120
Phenol-d5 (sur)	74	%	24 - 113
Terphenyl-d14 (sur)	104	%	18 - 137

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507990 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS22-3
Date Sampled: 03/23/2004
Time Sampled: 11:39
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8015 Carbon Chain I						
C06 - C10	ND	1	3	mg/Kg	03/25/04	AF
C10 - C22	3.0	1	3	mg/Kg	03/25/04	AF
C22 - C36	ND	1	5	mg/Kg	03/25/04	AF
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,1-Trichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2-Trichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2,3-Trichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2,4-Trimethylbenzene	14	1	5	ug/Kg	03/27/04	LB
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dibromoethane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,3,5-Trimethylbenzene	3.1 J	1	5	ug/Kg	03/27/04	LB
1,3-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,3-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,4-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1-Chlorohexane	ND	1	5	ug/Kg	03/27/04	LB
2,2-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
2-Butanone (MEK)	ND	1	100	ug/Kg	03/27/04	LB
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	03/27/04	LB
2-Chlorotoluene	ND	1	5	ug/Kg	03/27/04	LB
2-Hexanone	ND	1	5	ug/Kg	03/27/04	LB
4-Chlorotoluene	ND	1	5	ug/Kg	03/27/04	LB
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	03/27/04	LB
Acetone	ND	1	50	ug/Kg	03/27/04	LB
Acetonitrile	ND	1	5	ug/Kg	03/27/04	LB

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507990 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS22-3
Date Sampled: 03/23/2004
Time Sampled: 11:39
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Acrolein	ND	1	200	ug/Kg	03/27/04	LB
Acrylonitrile	ND	1	5	ug/Kg	03/27/04	LB
Allyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Benzene	ND	1	5	ug/Kg	03/27/04	LB
Benzyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Bromobenzene	ND	1	5	ug/Kg	03/27/04	LB
Bromochloromethane	ND	1	5	ug/Kg	03/27/04	LB
Bromodichloromethane	ND	1	5	ug/Kg	03/27/04	LB
Bromoform	ND	1	5	ug/Kg	03/27/04	LB
Bromomethane	ND	1	5	ug/Kg	03/27/04	LB
Carbon Disulfide	ND	1	5	ug/Kg	03/27/04	LB
Carbon tetrachloride	ND	1	5	ug/Kg	03/27/04	LB
Chlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
Chloroethane	ND	1	5	ug/Kg	03/27/04	LB
Chloroform	ND	1	5	ug/Kg	03/27/04	LB
Chloromethane	ND	1	5	ug/Kg	03/27/04	LB
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/27/04	LB
Dibromochloromethane	ND	1	5	ug/Kg	03/27/04	LB
Dibromomethane	ND	1	5	ug/Kg	03/27/04	LB
Dichlorodifluoromethane	ND	1	5	ug/Kg	03/27/04	LB
Ethyl benzene	1.5 J	1	5	ug/Kg	03/27/04	LB
Ethyl methacrylate	ND	1	5	ug/Kg	03/27/04	LB
Hexachlorobutadiene	ND	1	5	ug/Kg	03/27/04	LB
Iodomethane	ND	1	5	ug/Kg	03/27/04	LB
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	03/27/04	LB
Methacrylonitrile	ND	1	5	ug/Kg	03/27/04	LB
Methyl methacrylate	ND	1	5	ug/Kg	03/27/04	LB
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	03/27/04	LB
Methylene chloride	ND	1	5	ug/Kg	03/27/04	LB
n-Butylbenzene	4.8 J	1	5	ug/Kg	03/27/04	LB
n-Propylbenzene	1.1 J	1	5	ug/Kg	03/27/04	LB
Naphthalene	9.3	1	5	ug/Kg	03/27/04	LB
p-Isopropyltoluene	3.2 J	1	5	ug/Kg	03/27/04	LB
Pentachloroethane	ND	1	5	ug/Kg	03/27/04	LB
Propionitrile	ND	1	5	ug/Kg	03/27/04	LB
sec-Butylbenzene	2.1 J	1	5	ug/Kg	03/27/04	LB

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507990 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS22-3
Date Sampled: 03/23/2004
Time Sampled: 11:39
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Styrene	ND	1	5	ug/Kg	03/27/04	LB
tert-Butylbenzene	3.0 J	1	5	ug/Kg	03/27/04	LB
Tetrachloroethene	ND	1	5	ug/Kg	03/27/04	LB
Toluene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/27/04	LB
Trichloroethene	ND	1	5	ug/Kg	03/27/04	LB
Trichlorofluoromethane	ND	1	5	ug/Kg	03/27/04	LB
Vinyl acetate	ND	1	50	ug/Kg	03/27/04	LB
Vinyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Xylenes, total	6.0	1	5	ug/Kg	03/27/04	LB
Surrogates				**Units**	**Control Limits**	
Surr1 - Dibromofluoromethane	96			%	70 - 135	
Surr2 - 1,2-Dichloroethane-d4	111			%	70 - 135	
Surr3 - Toluene-d8	108			%	70 - 135	
Surr4 - p-Bromofluorobenzene	111			%	70 - 135	
8270C Acid/Base/Neutral Extractables						
1,2,4-Trichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,2-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,3-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,4-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
2,4,5-Trichlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4,6-Trichlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4-Dichlorophenol	ND	1	333	ug/Kg	03/30/04	DP
2,4-Dimethylphenol	ND	1	333	ug/Kg	03/30/04	DP
2,4-Dinitrophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4-Dinitrotoluene	ND	1	333	ug/Kg	03/30/04	DP
2,6-Dinitrotoluene	ND	1	333	ug/Kg	03/30/04	DP
2-Chloronaphthalene	ND	1	333	ug/Kg	03/30/04	DP
2-Chlorophenol	ND	1	333	ug/Kg	03/30/04	DP
2-Methylnaphthalene	ND	1	333	ug/Kg	03/30/04	DP
2-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
2-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
2-Nitrophenol	ND	1	333	ug/Kg	03/30/04	DP
3,3-Dichlorobenzidine	ND	1	333	ug/Kg	03/30/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507990 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS22-3
Date Sampled: 03/23/2004
Time Sampled: 11:39
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
3-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
3-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
4,6-Dinitro-2-methylphenol	ND	1	1665	ug/Kg	03/30/04	DP
4-Bromophenyl-phenylether	ND	1	333	ug/Kg	03/30/04	DP
4-Chloro-3-methylphenol	ND	1	333	ug/Kg	03/30/04	DP
4-Chloroaniline	ND	1	333	ug/Kg	03/30/04	DP
4-Chlorophenyl-phenylether	ND	1	333	ug/Kg	03/30/04	DP
4-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
4-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
4-Nitrophenol	ND	1	1665	ug/Kg	03/30/04	DP
Acenaphthene	ND	1	333	ug/Kg	03/30/04	DP
Acenaphthylene	ND	1	333	ug/Kg	03/30/04	DP
Anthracene	ND	1	333	ug/Kg	03/30/04	DP
Benzidine	ND	1	333	ug/Kg	03/30/04	DP
Benzo(a)anthracene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(a)pyrene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(b)fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(g,h,i)perylene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(k)fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Benzoic Acid	ND	1	333	ug/Kg	03/30/04	DP
Benzyl alcohol	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroethoxy)methane	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroethyl)ether	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroisopropyl) ether	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Ethylhexyl)phthalate	ND	1	333	ug/Kg	03/30/04	DP
Butylbenzylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Chrysene	ND	1	333	ug/Kg	03/30/04	DP
Di-n-butylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Di-n-octylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Dibenz(a,h)anthracene	ND	1	333	ug/Kg	03/30/04	DP
Dibenzofuran	ND	1	333	ug/Kg	03/30/04	DP
Diethylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Dimethylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Fluorene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorobutadiene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorocyclopentadiene	ND	1	333	ug/Kg	03/30/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507990 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS22-3
Date Sampled: 03/23/2004
Time Sampled: 11:39
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
Hexachloroethane	ND	1	333	ug/Kg	03/30/04	DP
Indeno(1,2,3-c,d)pyrene	ND	1	333	ug/Kg	03/30/04	DP
Isophorone	ND	1	333	ug/Kg	03/30/04	DP
N-Nitroso-di-n-propylamine	ND	1	333	ug/Kg	03/30/04	DP
N-Nitrosodiphenylamine	ND	1	333	ug/Kg	03/30/04	DP
Naphthalene	ND	1	333	ug/Kg	03/30/04	DP
Nitrobenzene	ND	1	333	ug/Kg	03/30/04	DP
Pentachlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
Phenanthrene	ND	1	333	ug/Kg	03/30/04	DP
Phenol	ND	1	333	ug/Kg	03/30/04	DP
Pyrene	ND	1	333	ug/Kg	03/30/04	DP

Surrogates		**Units**	**Control Limits**
2,4,6-Tribromophenol (sur)	59	%	17 - 122
2-Fluorobiphenyl (sur)	43	%	30 - 115
2-Fluorophenol (sur)	60	%	25 - 121
Nitrobenzene-d5 (sur)	48	%	23 - 120
Phenol-d5 (sur)	66	%	24 - 113
Terphenyl-d14 (sur)	80	%	18 - 137

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507991 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS23-3
Date Sampled: 03/23/2004
Time Sampled: 11:08
S ed By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8015 Carbon Chain I						
C06 - C10	ND	1	3	mg/Kg	03/25/04	AF
C10 - C22	3.6	1	3	mg/Kg	03/25/04	AF
C22 - C36	ND	1	5	mg/Kg	03/25/04	AF
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,1-Trichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2-Trichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2,3-Trichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2,4-Trimethylbenzene	3.4 J	1	5	ug/Kg	03/27/04	LB
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dibromoethane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	03/27/04	LB
1,3-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,3-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,4-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1-Chlorohexane	ND	1	5	ug/Kg	03/27/04	LB
2,2-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
2-Butanone (MEK)	ND	1	100	ug/Kg	03/27/04	LB
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	03/27/04	LB
2-Chlorotoluene	ND	1	5	ug/Kg	03/27/04	LB
2-Hexanone	ND	1	5	ug/Kg	03/27/04	LB
4-Chlorotoluene	ND	1	5	ug/Kg	03/27/04	LB
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	03/27/04	LB
Acetone	ND	1	50	ug/Kg	03/27/04	LB
Acetonitrile	ND	1	5	ug/Kg	03/27/04	LB

DL Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507991 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS23-3
Date Sampled: 03/23/2004
Time Sampled: 11:08
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Acrolein	ND	1	200	ug/Kg	03/27/04	LB
Acrylonitrile	ND	1	5	ug/Kg	03/27/04	LB
Allyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Benzene	ND	1	5	ug/Kg	03/27/04	LB
Benzyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Bromobenzene	ND	1	5	ug/Kg	03/27/04	LB
Bromochloromethane	ND	1	5	ug/Kg	03/27/04	LB
Bromodichloromethane	ND	1	5	ug/Kg	03/27/04	LB
Bromoform	ND	1	5	ug/Kg	03/27/04	LB
Bromomethane	ND	1	5	ug/Kg	03/27/04	LB
Carbon Disulfide	ND	1	5	ug/Kg	03/27/04	LB
Carbon tetrachloride	ND	1	5	ug/Kg	03/27/04	LB
Chlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
Chloroethane	ND	1	5	ug/Kg	03/27/04	LB
Chloroform	ND	1	5	ug/Kg	03/27/04	LB
Chloromethane	ND	1	5	ug/Kg	03/27/04	LB
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/27/04	LB
Dibromochloromethane	ND	1	5	ug/Kg	03/27/04	LB
Dibromomethane	ND	1	5	ug/Kg	03/27/04	LB
Dichlorodifluoromethane	ND	1	5	ug/Kg	03/27/04	LB
Ethyl benzene	ND	1	5	ug/Kg	03/27/04	LB
Ethyl methacrylate	ND	1	5	ug/Kg	03/27/04	LB
Hexachlorobutadiene	ND	1	5	ug/Kg	03/27/04	LB
Iodomethane	ND	1	5	ug/Kg	03/27/04	LB
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	03/27/04	LB
Methacrylonitrile	ND	1	5	ug/Kg	03/27/04	LB
Methyl methacrylate	ND	1	5	ug/Kg	03/27/04	LB
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	03/27/04	LB
Methylene chloride	ND	1	5	ug/Kg	03/27/04	LB
n-Butylbenzene	2.0 J	1	5	ug/Kg	03/27/04	LB
n-Propylbenzene	ND	1	5	ug/Kg	03/27/04	LB
Naphthalene	ND	1	5	ug/Kg	03/27/04	LB
p-Isopropyltoluene	1.1 J	1	5	ug/Kg	03/27/04	LB
Pentachloroethane	ND	1	5	ug/Kg	03/27/04	LB
Propionitrile	ND	1	5	ug/Kg	03/27/04	LB
sec-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507991 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS23-3
Date Sampled: 03/23/2004
Time Sampled: 11:08
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Styrene	ND	1	5	ug/Kg	03/27/04	LB
tert-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB
Tetrachloroethene	ND	1	5	ug/Kg	03/27/04	LB
Toluene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/27/04	LB
Trichloroethene	ND	1	5	ug/Kg	03/27/04	LB
Trichlorofluoromethane	ND	1	5	ug/Kg	03/27/04	LB
Vinyl acetate	ND	1	50	ug/Kg	03/27/04	LB
Vinyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Xylenes, total	ND	1	5	ug/Kg	03/27/04	LB
Surrogates				**Units**	**Control Limits**	
Surr1 - Dibromofluoromethane	96			%	70 - 135	
Surr2 - 1,2-Dichloroethane-d4	111			%	70 - 135	
Surr3 - Toluene-d8	105			%	70 - 135	
Surr4 - p-Bromofluorobenzene	116			%	70 - 135	
8270C Acid/Base/Neutral Extractables						
1,2,4-Trichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,2-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,3-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,4-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
2,4,5-Trichlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4,6-Trichlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4-Dichlorophenol	ND	1	333	ug/Kg	03/30/04	DP
2,4-Dimethylphenol	ND	1	333	ug/Kg	03/30/04	DP
2,4-Dinitrophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4-Dinitrotoluene	ND	1	333	ug/Kg	03/30/04	DP
2,6-Dinitrotoluene	ND	1	333	ug/Kg	03/30/04	DP
2-Chloronaphthalene	ND	1	333	ug/Kg	03/30/04	DP
2-Chlorophenol	ND	1	333	ug/Kg	03/30/04	DP
2-Methylnaphthalene	ND	1	333	ug/Kg	03/30/04	DP
2-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
2-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
2-Nitrophenol	ND	1	333	ug/Kg	03/30/04	DP
3,3-Dichlorobenzidine	ND	1	333	ug/Kg	03/30/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507991 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS23-3
Date Sampled: 03/23/2004
Time Sampled: 11:08
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
3-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
3-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
4,6-Dinitro-2-methylphenol	ND	1	1665	ug/Kg	03/30/04	DP
4-Bromophenyl-phenylether	ND	1	333	ug/Kg	03/30/04	DP
4-Chloro-3-methylphenol	ND	1	333	ug/Kg	03/30/04	DP
4-Chloroaniline	ND	1	333	ug/Kg	03/30/04	DP
4-Chlorophenyl-phenylether	ND	1	333	ug/Kg	03/30/04	DP
4-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
4-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
4-Nitrophenol	ND	1	1665	ug/Kg	03/30/04	DP
Acenaphthene	ND	1	333	ug/Kg	03/30/04	DP
Acenaphthylene	ND	1	333	ug/Kg	03/30/04	DP
Anthracene	ND	1	333	ug/Kg	03/30/04	DP
Benzidine	ND	1	333	ug/Kg	03/30/04	DP
Benzo(a)anthracene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(a)pyrene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(b)fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(g,h,i)perylene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(k)fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Benzoic Acid	ND	1	333	ug/Kg	03/30/04	DP
Benzyl alcohol	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroethoxy)methane	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroethyl)ether	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroisopropyl) ether	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Ethylhexyl)phthalate	ND	1	333	ug/Kg	03/30/04	DP
Butylbenzylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Chrysene	ND	1	333	ug/Kg	03/30/04	DP
Di-n-butylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Di-n-octylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Dibenz(a,h)anthracene	ND	1	333	ug/Kg	03/30/04	DP
Dibenzofuran	ND	1	333	ug/Kg	03/30/04	DP
Diethylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Dimethylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Fluorene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorobutadiene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorocyclopentadiene	ND	1	333	ug/Kg	03/30/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507991 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS23-3
Date Sampled: 03/23/2004
Time Sampled: 11:08
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
Hexachloroethane	ND	1	333	ug/Kg	03/30/04	DP
Indeno(1,2,3-c,d)pyrene	ND	1	333	ug/Kg	03/30/04	DP
Isophorone	ND	1	333	ug/Kg	03/30/04	DP
N-Nitroso-di-n-propylamine	ND	1	333	ug/Kg	03/30/04	DP
N-Nitrosodiphenylamine	ND	1	333	ug/Kg	03/30/04	DP
Naphthalene	ND	1	333	ug/Kg	03/30/04	DP
Nitrobenzene	ND	1	333	ug/Kg	03/30/04	DP
Pentachlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
Phenanthrene	ND	1	333	ug/Kg	03/30/04	DP
Phenol	ND	1	333	ug/Kg	03/30/04	DP
Pyrene	ND	1	333	ug/Kg	03/30/04	DP

Surrogates		**Units**	**Control Limits**
2,4,6-Tribromophenol (sur)	66	%	17 - 122
2-Fluorobiphenyl (sur)	47	%	30 - 115
2-Fluorophenol (sur)	63	%	25 - 121
Nitrobenzene-d5 (sur)	52	%	23 - 120
Phenol-d5 (sur)	74	%	24 - 113
Terphenyl-d14 (sur)	90	%	18 - 137

DL = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507992 **Client:** BHATE

Matrix: SOLID **Client Sample ID:** Laboratory Method Blank

Date Sampled:

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8015 Carbon Chain I						
C06 - C10	ND	1	3	mg/Kg	03/24/04	AF
C10 - C22	ND	1	3	mg/Kg	03/24/04	AF
C22 - C36	ND	1	5	mg/Kg	03/24/04	AF
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,1-Trichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2-Trichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2,3-Trichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dibromoethane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	03/27/04	LB
1,3-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,3-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,4-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1-Chlorohexane	ND	1	5	ug/Kg	03/27/04	LB
2,2-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
2-Butanone (MEK)	ND	1	100	ug/Kg	03/27/04	LB
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	03/27/04	LB
2-Chlorotoluene	ND	1	5	ug/Kg	03/27/04	LB
2-Hexanone	ND	1	5	ug/Kg	03/27/04	LB
4-Chlorotoluene	ND	1	5	ug/Kg	03/27/04	LB
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	03/27/04	LB
Acetone	ND	1	50	ug/Kg	03/27/04	LB
Acetonitrile	ND	1	5	ug/Kg	03/27/04	LB

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Order #: 507992 **Client:** BHATE

Matrix: SOLID **Client Sample ID:** Laboratory Method Blank

Date Sampled:

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Acrolein	ND	1	200	ug/Kg	03/27/04	LB
Acrylonitrile	ND	1	5	ug/Kg	03/27/04	LB
Allyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Benzene	ND	1	5	ug/Kg	03/27/04	LB
Benzyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Bromobenzene	ND	1	5	ug/Kg	03/27/04	LB
Bromochloromethane	ND	1	5	ug/Kg	03/27/04	LB
Bromodichloromethane	ND	1	5	ug/Kg	03/27/04	LB
Bromoform	ND	1	5	ug/Kg	03/27/04	LB
Bromomethane	ND	1	5	ug/Kg	03/27/04	LB
Carbon Disulfide	ND	1	5	ug/Kg	03/27/04	LB
Carbon tetrachloride	ND	1	5	ug/Kg	03/27/04	LB
Chlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
Chloroethane	ND	1	5	ug/Kg	03/27/04	LB
Chloroform	ND	1	5	ug/Kg	03/27/04	LB
Chloromethane	ND	1	5	ug/Kg	03/27/04	LB
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/27/04	LB
Dibromochloromethane	ND	1	5	ug/Kg	03/27/04	LB
Dibromomethane	ND	1	5	ug/Kg	03/27/04	LB
Dichlorodifluoromethane	ND	1	5	ug/Kg	03/27/04	LB
Ethyl benzene	ND	1	5	ug/Kg	03/27/04	LB
Ethyl methacrylate	ND	1	5	ug/Kg	03/27/04	LB
Hexachlorobutadiene	ND	1	5	ug/Kg	03/27/04	LB
Iodomethane	ND	1	5	ug/Kg	03/27/04	LB
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	03/27/04	LB
Methacrylonitrile	ND	1	5	ug/Kg	03/27/04	LB
Methyl methacrylate	ND	1	5	ug/Kg	03/27/04	LB
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	03/27/04	LB
Methylene chloride	ND	1	5	ug/Kg	03/27/04	LB
n-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB
n-Propylbenzene	ND	1	5	ug/Kg	03/27/04	LB
Naphthalene	ND	1	5	ug/Kg	03/27/04	LB
p-Isopropyltoluene	ND	1	5	ug/Kg	03/27/04	LB
Pentachloroethane	ND	1	5	ug/Kg	03/27/04	LB
Propionitrile	ND	1	5	ug/Kg	03/27/04	LB
sec-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB

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Order #: 507992 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** Laboratory Method Blank
Date Sampled:
Time Sampled:
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Styrene	ND	1	5	ug/Kg	03/27/04	LB
tert-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB
Tetrachloroethene	ND	1	5	ug/Kg	03/27/04	LB
Toluene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/27/04	LB
Trichloroethene	ND	1	5	ug/Kg	03/27/04	LB
Trichlorofluoromethane	ND	1	5	ug/Kg	03/27/04	LB
Vinyl acetate	ND	1	50	ug/Kg	03/27/04	LB
Vinyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Xylenes, total	ND	1	5	ug/Kg	03/27/04	LB

Surrogates		Units	Control Limits
Surr1 - Dibromofluoromethane	97	%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	109	%	70 - 135
Surr3 - Toluene-d8	102	%	70 - 135
Surr4 - p-Bromofluorobenzene	111	%	70 - 135

8270C Acid/Base/Neutral Extractables

1,2,4-Trichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,2-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,3-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,4-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
2,4,5-Trichlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4,6-Trichlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4-Dichlorophenol	ND	1	333	ug/Kg	03/30/04	DP
2,4-Dimethylphenol	ND	1	333	ug/Kg	03/30/04	DP
2,4-Dinitrophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4-Dinitrotoluene	ND	1	333	ug/Kg	03/30/04	DP
2,6-Dinitrotoluene	ND	1	333	ug/Kg	03/30/04	DP
2-Chloronaphthalene	ND	1	333	ug/Kg	03/30/04	DP
2-Chlorophenol	ND	1	333	ug/Kg	03/30/04	DP
2-Methylnaphthalene	ND	1	333	ug/Kg	03/30/04	DP
2-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
2-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
2-Nitrophenol	ND	1	333	ug/Kg	03/30/04	DP
3,3-Dichlorobenzidine	ND	1	333	ug/Kg	03/30/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507992 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** Laboratory Method Blank
Date Sampled:
Time Sampled:
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
3-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
3-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
4,6-Dinitro-2-methylphenol	ND	1	1665	ug/Kg	03/30/04	DP
4-Bromophenyl-phenylether	ND	1	333	ug/Kg	03/30/04	DP
4-Chloro-3-methylphenol	ND	1	333	ug/Kg	03/30/04	DP
4-Chloroaniline	ND	1	333	ug/Kg	03/30/04	DP
4-Chlorophenyl-phenylether	ND	1	333	ug/Kg	03/30/04	DP
4-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
4-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
4-Nitrophenol	ND	1	1665	ug/Kg	03/30/04	DP
Acenaphthene	ND	1	333	ug/Kg	03/30/04	DP
Acenaphthylene	ND	1	333	ug/Kg	03/30/04	DP
Anthracene	ND	1	333	ug/Kg	03/30/04	DP
Benzidine	ND	1	333	ug/Kg	03/30/04	DP
Benzo(a)anthracene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(a)pyrene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(b)fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(g,h,i)perylene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(k)fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Benzoic Acid	ND	1	333	ug/Kg	03/30/04	DP
Benzyl alcohol	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroethoxy)methane	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroethyl)ether	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroisopropyl) ether	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Ethylhexyl)phthalate	ND	1	333	ug/Kg	03/30/04	DP
Butylbenzylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Chrysene	ND	1	333	ug/Kg	03/30/04	DP
Di-n-butylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Di-n-octylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Dibenz(a,h)anthracene	ND	1	333	ug/Kg	03/30/04	DP
Dibenzofuran	ND	1	333	ug/Kg	03/30/04	DP
Diethylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Dimethylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Fluorene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorobutadiene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorocyclopentadiene	ND	1	333	ug/Kg	03/30/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 507992 **Client:** BHATE

Matrix: SOLID **Client Sample ID:** Laboratory Method Blank

Date Sampled:

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
Hexachloroethane	ND	1	333	ug/Kg	03/30/04	DP
Indeno(1,2,3-c,d)pyrene	ND	1	333	ug/Kg	03/30/04	DP
Isophorone	ND	1	333	ug/Kg	03/30/04	DP
N-Nitroso-di-n-propylamine	ND	1	333	ug/Kg	03/30/04	DP
N-Nitrosodiphenylamine	ND	1	333	ug/Kg	03/30/04	DP
Naphthalene	ND	1	333	ug/Kg	03/30/04	DP
Nitrobenzene	ND	1	333	ug/Kg	03/30/04	DP
Pentachlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
Phenanthrene	ND	1	333	ug/Kg	03/30/04	DP
Phenol	ND	1	333	ug/Kg	03/30/04	DP
Pyrene	ND	1	333	ug/Kg	03/30/04	DP

Surrogates		Units	Control Limits
2,4,6-Tribromophenol (sur)	58	%	17 - 122
2-Fluorobiphenyl (sur)	48	%	30 - 115
2-Fluorophenol (sur)	76	%	25 - 121
Nitrobenzene-d5 (sur)	48	%	23 - 120
Phenol-d5 (sur)	75	%	24 - 113
Terphenyl-d14 (sur)	86	%	18 - 137

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 126645-988

Matrix: SOLID

Extraction Method : 3545

Prep. Date: 03/24/04

Analysis Date: 03/24/04

ID#'s in Batch: LR 126645, 126661

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = mg/Kg

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
DIESEL	8015D	ND	25	19	23	76	94	21

ND = Not Detected
RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate
%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

%REC LIMITS = 70 - 130
RPD LIMITS = 30

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

	PREP BLK Value	Result	True	%Rec	L.Limit	H.Limit
LCS	ND	31.4	25	126	70%	130%
LCSD	ND	29.0	25	116	70%	130%

LCS Result = Lab Control Sample Result
True = True Value of LCS
L.Limit / H.Limit = LCS Control Limits

SURROGATE RECOVERY

Sample No.	O-Terphenyl
QC Limit	55-200
MS	101
MSD	70
Method Blank	83
LCS	126
LCSD	141

ASSOCIATED LABORATORIES

LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: LCS/LCSD - Soil Samples

Analysis Date: 03/27/04

Applies to: LR 126645, 126715, 126783, 126703

Reporting Units = ug/Kg

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits RPD	QC Limits %REC
1,1-Dichloroethene	ND	50	54.68	50.73	109	101	7	22	59-172
MTBE	ND	50	50.97	49.86	102	100	2	24	62-137
Benzene	ND	50	57.38	53.82	115	108	6	24	62-137
Trichloroethene	ND	50	64.48	60.49	129	121	6	21	66-142
Toluene	ND	50	54.52	57.30	109	115	5	21	59-139
Chlorobenzene	ND	50	53.19	54.61	106	109	3	21	60-133

Method Blank = All ND

SURROGATE (QC Limits : 70-135)

Compounds	DBFM	1,2-DCA	Tol-d8	p-BFB
LCS	91	100	99	111
LCSD	91	98	105	113
BLANK # 3	97	109	102	111
BLANK # 4	96	112	108	109

ASSOCIATED LABORATORIES
QA REPORT FORM

Method : EPA 8270/625

Prep. Method : 3545

QC Sample: MS/MSD 126645-988

Matrix: SOLID

Date Extracted : 03/25/04

Date Analyzed : 03/30/04

Applies to: LR 126645, 126715

REPORTING UNITS = ug/Kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Test	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup.	%Rec MS	%Rec MSD	RPD	QC Limits RPD	QC Limits %REC
Phenol	ND	50	34	32	68	64	6	42	6-117
2-Chorophenol	ND	50	33	30	66	60	10	35	28-100
1,4-Dichlorobenzene	ND	50	31	29	62	58	7	36	39-92
n-Nitroso-di-n-propylamine	ND	50	39	36	78	72	8	42	5-149
1,2,4-Trichlorobenzene	ND	50	27	28	54	56	4	41	41-97
4-Chloro-3-methylphenol	ND	50	29	31	58	62	7	37	26-117
Acenaphthene	ND	50	28	33	56	66	16	41	46-113
4-Nitrophenol	ND	50	33	36	66	72	9	73	53-143
2,4-Dinitrotoluene *	ND	50	37	42	74	84	13	43	82-125
Pentachlorophenol	ND	50	40	39	80	78	3	52	25-187
Pyrene	ND	50	43	42	86	84	2	36	47-136

***MS recovery limits were out of control. MSD, LCS and MB conformed for all spike compounds.**

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	%Rec LCS	QC LIMIT %REC
Phenol	ND	50	27	54	17-99
2-Clorophenol	ND	50	27	54	28-88
1,4-Dichlorobenzene	ND	50	27	54	33-89
n-Nitroso-di-n-propylamine	ND	50	30	60	9-130
1,2,4-Trichlorobenzene	ND	50	24	48	25-92
4-Cloro-3-methylphenol	ND	50	27	54	27-96
Acenaphthene	ND	50	28	56	31-101
4-Nitrophenol	ND	50	31	62	8-123
2,4-Dinitrotoluene	ND	50	38	76	27-139
Pentachlorophenol	ND	50	31	62	0-151
Pyrene	ND	50	43	86	34-127

Method Blank = All ND

ASSOCIATED LABORATORIES

NARRATIVE

Date: March 31, 2004

Narrative for Lab Request LR: 126645

Client Project Identification:
Project: Drone Crash
This narrative includes all samples as shown on the attached Lab Request final report.

Analyses Requested:

- EPA 8015 – Carbon Chain I.
- EPA 8260B – Volatile Organic Compounds.
- EPA 8270C – Acid & Base/Neutral Extractables.

Data Validation:

Holding Times
All EPA designated holding times were met.

Calibration
Initial calibration criteria were met for all analytes. Initial and Continuing Calibration Check samples were run at the required frequency. All results were within required limits.

Quality Control Samples
Following is a summary of the QC data, along with an explanation of any samples that were outside QC limits and corrective actions that were taken:

- **EPA 8270:** MS spike recovery was out of control for 2,4-Dinitrotoluene, due to matrix interference. Corrective action: The remaining MS/MSD spike recoveries and all LCS recoveries were within control. Furthermore, Method was ND, and all surrogate recoveries conformed. The QC batch was acceptable, and no corrective action was necessary.

- **EPA 8015 & 8260:** All QC results were within control.

Other Anomalies or Comments
The reporting limit (DLR) is adjusted if dilution of the sample is necessary. For 8270, the MS/MSD and LCS limits shown in the raw data are incorrect. The correct limits are on the QC summary sheet.

OHATE
Environmental Associates, Inc.
1608 13th Avenue South, Suite 300
Birmingham, Alabama 35205
Tel: 205-918-4000
Fax: 205-918-4050

Chain of Custody and Analytical Request

126645

Page 1 of 1

Project Number: 903232.03.02

Chain of Custody Number (1): 3232004

LIMS Number:

Facility/Base I.D.: Holmn

Project Name / Site Name: Drone Crash

Client Name: USACE

Collected by: Daniel Tucker

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC 8260	SVOC 8270	TPH 8015						Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
F4WSMCS 15-2	F4WSM	23 3 2004	1100	2'-2'	N	1	SO	4	✓	✓	✓									1
F4WSMCS 16-2	↑	↑	1104	2'-2'	↑	↑	↑	↑	↑	↑	↑									↑
F4WSMCS 17-2	↓	↓	1112	2'-2'	↓	↓	↓	↓	↓	↓	↓									↓
F4WSMCS 18-2	↓	↓	1119	2'-2'	↓	↓	↓	↓	↓	↓	↓									↓
F4WSMCS 19-2	↓	↓	1125	2'-2'	↓	↓	↓	↓	↓	↓	↓									↓
F4WSMCS 20-2	↓	↓	1129	2'-2'	↓	↓	↓	↓	↓	↓	↓									↓
F4WSMCS 21-2	↓	↓	1134	2'-2'	↓	↓	↓	↓	↓	↓	↓									↓
F4WSMCS 22-3	↓	↓	1139	3'-3'	↓	↓	↓	↓	↓	↓	↓									↓
F4WSMCS 23-3	↓	↓	1108	3'-3'	↓	↓	↓	↓	↓	↓	↓									↓
				-																
				-																

COMMENTS: fed ex shipper # 8426 0329 4275
fax Results to (505) 679-2148
E-Mail (PDF file) to Hollonan -

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	3-23-04	1600		3/23	11 20
2.			2.		
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:
Method of Shipment: Fed Ex Airbill Number:
Analytical Lab: Associated Delivery Location: Orange CA
Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)
2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc.), SQ = Soil Blanks
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control)

DISTRIBUTION: WHITE COPY - Project File YELLOW COPY - Lab Copy PINK COPY - Working File

ASSOCIATED LABORATORIES
6 North Batavia - Orange, California 92868-1225 - 714/771-6900 FAX 714/538-1209

Cooler Receipt Form

Client: Bhate Project: /

Date Cooler Received: 3/25 Date Cooler Opened: 3/25

Was cooler scanned for presence of radioactivity ? Yes/No
If yes was radioactivity results above 25 cpm ? Yes/No

Was a shipper's packing slip attached to the cooler ? Yes/No

If the cooler had custody seal(s), were thy signed and intact ? Yes/No/Na

Was the cooler packed with: Ice X Ice Packs _____ Bubble wrap _____
Styrofoam _____ Paper _____ None _____ Other _____

Cooler Temperature: 1.6°C *
*cooler needs to be received @ 4°C with an acceptable range of 2°- 6 °C

If samples were hand delivered do they meet the temp. criteria, which should be @ 4°C with an acceptable range of 2°- 6 °C ? Yes/No

If no explain: _____

Were all samples sealed in plastic bags ? Yes/No

Did all samples arrive intact ? If no, indicate below. Yes/No

Were all samples labeled correctly ? (ID's Dates, Times) If no, indicate below. Yes/No

Can the tests required be ran with the provided containers, If no indicate below. Yes/No

Was sufficient sample volume sent for all containers ? Yes/No

Were any VOA vials received with head space ? Yes/No/Na

Was the correct preservatives used ? Yes/No/Na
If no, see the pH log for a list of samples containers regarding pH

Any other important information: _____

_____

Receiving Department: _____ Date: 3/25

APPENDIX G4

THIRD EXCAVATION CONFIRMATION LABORATORY FORM I DATA

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 FAX 714/538-1209

CLIENT BHATE (10177)
ATTN: Jerry Pelfrey
1111 10th. Street
480
Alamorgordo, NM 88310

LAB REQUEST 126715
REPORTED 03/31/2004
RECEIVED 03/25/2004

PROJECT Drone Crash

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
508268	F4WSMCS16B-2
508269	F4WSMCS19B-2
508270	Trip Blank
508271	Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 508268 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS16B-2
Date Sampled: 03/24/2004
Time Sampled: 09:20
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8015 Carbon Chain I						
C06 - C10	ND	1	3	mg/Kg	03/29/04	AF
C10 - C22	ND	1	3	mg/Kg	03/29/04	AF
C22 - C36	ND	1	5	mg/Kg	03/29/04	AF
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,1-Trichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2-Trichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2,3-Trichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dibromoethane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	03/27/04	LB
1,3-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,3-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,4-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1-Chlorohexane	ND	1	5	ug/Kg	03/27/04	LB
2,2-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
2-Butanone (MEK)	ND	1	100	ug/Kg	03/27/04	LB
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	03/27/04	LB
2-Chlorotoluene	ND	1	5	ug/Kg	03/27/04	LB
2-Hexanone	ND	1	5	ug/Kg	03/27/04	LB
4-Chlorotoluene	ND	1	5	ug/Kg	03/27/04	LB
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	03/27/04	LB
Acetone	ND	1	50	ug/Kg	03/27/04	LB
Acetonitrile	ND	1	5	ug/Kg	03/27/04	LB

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 508268 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS16B-2
Date Sampled: 03/24/2004
Time Sampled: 09:20
S[illegible]ed By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Acrolein	ND	1	200	ug/Kg	03/27/04	LB
Acrylonitrile	ND	1	5	ug/Kg	03/27/04	LB
Allyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Benzene	ND	1	5	ug/Kg	03/27/04	LB
Benzyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Bromobenzene	ND	1	5	ug/Kg	03/27/04	LB
Bromochloromethane	ND	1	5	ug/Kg	03/27/04	LB
Bromodichloromethane	ND	1	5	ug/Kg	03/27/04	LB
Bromoform	ND	1	5	ug/Kg	03/27/04	LB
Bromomethane	ND	1	5	ug/Kg	03/27/04	LB
Carbon Disulfide	ND	1	5	ug/Kg	03/27/04	LB
Carbon tetrachloride	ND	1	5	ug/Kg	03/27/04	LB
Chlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
Chloroethane	ND	1	5	ug/Kg	03/27/04	LB
Chloroform	ND	1	5	ug/Kg	03/27/04	LB
Chloromethane	ND	1	5	ug/Kg	03/27/04	LB
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/27/04	LB
Dibromochloromethane	ND	1	5	ug/Kg	03/27/04	LB
Dibromomethane	ND	1	5	ug/Kg	03/27/04	LB
Dichlorodifluoromethane	ND	1	5	ug/Kg	03/27/04	LB
Ethyl benzene	ND	1	5	ug/Kg	03/27/04	LB
Ethyl methacrylate	ND	1	5	ug/Kg	03/27/04	LB
Hexachlorobutadiene	ND	1	5	ug/Kg	03/27/04	LB
Iodomethane	ND	1	5	ug/Kg	03/27/04	LB
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	03/27/04	LB
m and p-Xylene	ND	1	5	ug/Kg	03/27/04	LB
Methacrylonitrile	ND	1	5	ug/Kg	03/27/04	LB
Methyl methacrylate	ND	1	5	ug/Kg	03/27/04	LB
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	03/27/04	LB
Methylene chloride	ND	1	5	ug/Kg	03/27/04	LB
n-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB
n-Propylbenzene	ND	1	5	ug/Kg	03/27/04	LB
Naphthalene	ND	1	5	ug/Kg	03/27/04	LB
o-Xylene	ND	1	5	ug/Kg	03/27/04	LB
p-Isopropyltoluene	ND	1	5	ug/Kg	03/27/04	LB
Pentachloroethane	ND	1	5	ug/Kg	03/27/04	LB

DL[illegible] Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 508268 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS16B-2
Date Sampled: 03/24/2004
Time Sampled: 09:20
S ed By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Propionitrile	ND	1	5	ug/Kg	03/27/04	LB
sec-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB
Styrene	ND	1	5	ug/Kg	03/27/04	LB
tert-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB
Tetrachloroethene	ND	1	5	ug/Kg	03/27/04	LB
Toluene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/27/04	LB
Trichloroethene	ND	1	5	ug/Kg	03/27/04	LB
Trichlorofluoromethane	ND	1	5	ug/Kg	03/27/04	LB
Vinyl acetate	ND	1	50	ug/Kg	03/27/04	LB
Vinyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Xylenes, total	ND	1	5	ug/Kg	03/27/04	LB
Surrogates				**Units**	**Control Limits**	
Surr1 - Dibromofluoromethane	98			%	70 - 135	
Surr2 - 1,2-Dichloroethane-d4	114			%	70 - 135	
Surr3 - Toluene-d8	109			%	70 - 135	
Surr4 - p-Bromofluorobenzene	106			%	70 - 135	
8270C Acid/Base/Neutral Extractables						
1,2,4-Trichlorobenzene	ND	1	333	ug/Kg	03/31/04	DP
1,2-Dichlorobenzene	ND	1	333	ug/Kg	03/31/04	DP
1,3-Dichlorobenzene	ND	1	333	ug/Kg	03/31/04	DP
1,4-Dichlorobenzene	ND	1	333	ug/Kg	03/31/04	DP
2,4,5-Trichlorophenol	ND	1	1665	ug/Kg	03/31/04	DP
2,4,6-Trichlorophenol	ND	1	1665	ug/Kg	03/31/04	DP
2,4-Dichlorophenol	ND	1	333	ug/Kg	03/31/04	DP
2,4-Dimethylphenol	ND	1	333	ug/Kg	03/31/04	DP
2,4-Dinitrophenol	ND	1	1665	ug/Kg	03/31/04	DP
2,4-Dinitrotoluene	ND	1	333	ug/Kg	03/31/04	DP
2,6-Dinitrotoluene	ND	1	333	ug/Kg	03/31/04	DP
2-Chloronaphthalene	ND	1	333	ug/Kg	03/31/04	DP
2-Chlorophenol	ND	1	333	ug/Kg	03/31/04	DP
2-Methylnaphthalene	ND	1	333	ug/Kg	03/31/04	DP
2-Methylphenol	ND	1	333	ug/Kg	03/31/04	DP
2-Nitroaniline	ND	1	1665	ug/Kg	03/31/04	DP

DL Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 508268 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS16B-2
Date Sampled: 03/24/2004
Time Sampled: 09:20
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
2-Nitrophenol	ND	1	333	ug/Kg	03/31/04	DP
3,3-Dichlorobenzidine	ND	1	333	ug/Kg	03/31/04	DP
3-Methylphenol	ND	1	333	ug/Kg	03/31/04	DP
3-Nitroaniline	ND	1	1665	ug/Kg	03/31/04	DP
4,6-Dinitro-2-methylphenol	ND	1	1665	ug/Kg	03/31/04	DP
4-Bromophenyl-phenylether	ND	1	333	ug/Kg	03/31/04	DP
4-Chloro-3-methylphenol	ND	1	333	ug/Kg	03/31/04	DP
4-Chloroaniline	ND	1	333	ug/Kg	03/31/04	DP
4-Chlorophenyl-phenylether	ND	1	333	ug/Kg	03/31/04	DP
4-Methylphenol	ND	1	333	ug/Kg	03/31/04	DP
4-Nitroaniline	ND	1	1665	ug/Kg	03/31/04	DP
4-Nitrophenol	ND	1	1665	ug/Kg	03/31/04	DP
Acenaphthene	ND	1	333	ug/Kg	03/31/04	DP
Acenaphthylene	ND	1	333	ug/Kg	03/31/04	DP
Anthracene	ND	1	333	ug/Kg	03/31/04	DP
Benzidine	ND	1	333	ug/Kg	03/31/04	DP
Benzo(a)anthracene	ND	1	333	ug/Kg	03/31/04	DP
Benzo(a)pyrene	ND	1	333	ug/Kg	03/31/04	DP
Benzo(b)fluoranthene	ND	1	333	ug/Kg	03/31/04	DP
Benzo(g,h,i)perylene	ND	1	333	ug/Kg	03/31/04	DP
Benzo(k)fluoranthene	ND	1	333	ug/Kg	03/31/04	DP
Benzoic Acid	ND	1	333	ug/Kg	03/31/04	DP
Benzyl alcohol	ND	1	333	ug/Kg	03/31/04	DP
bis(2-Chloroethoxy)methane	ND	1	333	ug/Kg	03/31/04	DP
bis(2-Chloroethyl)ether	ND	1	333	ug/Kg	03/31/04	DP
bis(2-Chloroisopropyl) ether	ND	1	333	ug/Kg	03/31/04	DP
bis(2-Ethylhexyl)phthalate	ND	1	333	ug/Kg	03/31/04	DP
Butylbenzylphthalate	ND	1	333	ug/Kg	03/31/04	DP
Chrysene	ND	1	333	ug/Kg	03/31/04	DP
Di-n-butylphthalate	ND	1	333	ug/Kg	03/31/04	DP
Di-n-octylphthalate	ND	1	333	ug/Kg	03/31/04	DP
Dibenz(a,h)anthracene	ND	1	333	ug/Kg	03/31/04	DP
Dibenzofuran	ND	1	333	ug/Kg	03/31/04	DP
Diethylphthalate	ND	1	333	ug/Kg	03/31/04	DP
Dimethylphthalate	ND	1	333	ug/Kg	03/31/04	DP
Fluoranthene	ND	1	333	ug/Kg	03/31/04	DP
Fluorene	ND	1	333	ug/Kg	03/31/04	DP
Hexachlorobenzene	ND	1	333	ug/Kg	03/31/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 508268 **Client:** BHATE

Matrix: SOLID **Client Sample ID:** F4WSMCS16B-2

Date Sampled: 03/24/2004

Time Sampled: 09:20

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
Hexachlorobutadiene	ND	1	333	ug/Kg	03/31/04	DP
Hexachlorocyclopentadiene	ND	1	333	ug/Kg	03/31/04	DP
Hexachloroethane	ND	1	333	ug/Kg	03/31/04	DP
Indeno(1,2,3-c,d)pyrene	ND	1	333	ug/Kg	03/31/04	DP
Isophorone	ND	1	333	ug/Kg	03/31/04	DP
N-Nitroso-di-n-propylamine	ND	1	333	ug/Kg	03/31/04	DP
N-Nitrosodiphenylamine	ND	1	333	ug/Kg	03/31/04	DP
Naphthalene	ND	1	333	ug/Kg	03/31/04	DP
Nitrobenzene	ND	1	333	ug/Kg	03/31/04	DP
Pentachlorophenol	ND	1	1665	ug/Kg	03/31/04	DP
Phenanthrene	ND	1	333	ug/Kg	03/31/04	DP
Phenol	ND	1	333	ug/Kg	03/31/04	DP
Pyrene	ND	1	333	ug/Kg	03/31/04	DP

Surrogates		**Units**	**Control Limits**
2,4,6-Tribromophenol (sur)	67	%	17 - 122
2-Fluorobiphenyl (sur)	43	%	30 - 115
2-Fluorophenol (sur)	66	%	25 - 121
Nitrobenzene-d5 (sur)	43	%	23 - 120
Phenol-d5 (sur)	65	%	24 - 113
Terphenyl-d14 (sur)	72	%	18 - 137

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 508269 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS19B-2
Date Sampled: 03/24/2004
Time Sampled: 09:30
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8015 Carbon Chain I						
C06 - C10	ND	1	3	mg/Kg	03/29/04	AF
C10 - C22	ND	1	3	mg/Kg	03/29/04	AF
C22 - C36	ND	1	5	mg/Kg	03/29/04	AF
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,1-Trichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2-Trichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2,3-Trichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dibromoethane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	03/27/04	LB
1,3-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,3-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,4-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1-Chlorohexane	ND	1	5	ug/Kg	03/27/04	LB
2,2-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
2-Butanone (MEK)	ND	1	100	ug/Kg	03/27/04	LB
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	03/27/04	LB
2-Chlorotoluene	ND	1	5	ug/Kg	03/27/04	LB
2-Hexanone	ND	1	5	ug/Kg	03/27/04	LB
4-Chlorotoluene	ND	1	5	ug/Kg	03/27/04	LB
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	03/27/04	LB
Acetone	ND	1	50	ug/Kg	03/27/04	LB
Acetonitrile	ND	1	5	ug/Kg	03/27/04	LB

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 508269 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS19B-2
Date Sampled: 03/24/2004
Time Sampled: 09:30
S[illegible]ed By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Acrolein	ND	1	200	ug/Kg	03/27/04	LB
Acrylonitrile	ND	1	5	ug/Kg	03/27/04	LB
Allyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Benzene	ND	1	5	ug/Kg	03/27/04	LB
Benzyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Bromobenzene	ND	1	5	ug/Kg	03/27/04	LB
Bromochloromethane	ND	1	5	ug/Kg	03/27/04	LB
Bromodichloromethane	ND	1	5	ug/Kg	03/27/04	LB
Bromoform	ND	1	5	ug/Kg	03/27/04	LB
Bromomethane	ND	1	5	ug/Kg	03/27/04	LB
Carbon Disulfide	ND	1	5	ug/Kg	03/27/04	LB
Carbon tetrachloride	ND	1	5	ug/Kg	03/27/04	LB
Chlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
Chloroethane	ND	1	5	ug/Kg	03/27/04	LB
Chloroform	ND	1	5	ug/Kg	03/27/04	LB
Chloromethane	ND	1	5	ug/Kg	03/27/04	LB
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/27/04	LB
Dibromochloromethane	ND	1	5	ug/Kg	03/27/04	LB
Dibromomethane	ND	1	5	ug/Kg	03/27/04	LB
Dichlorodifluoromethane	ND	1	5	ug/Kg	03/27/04	LB
Ethyl benzene	ND	1	5	ug/Kg	03/27/04	LB
Ethyl methacrylate	ND	1	5	ug/Kg	03/27/04	LB
Hexachlorobutadiene	ND	1	5	ug/Kg	03/27/04	LB
Iodomethane	ND	1	5	ug/Kg	03/27/04	LB
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	03/27/04	LB
m and p-Xylene	ND	1	5	ug/Kg	03/27/04	LB
Methacrylonitrile	ND	1	5	ug/Kg	03/27/04	LB
Methyl methacrylate	ND	1	5	ug/Kg	03/27/04	LB
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	03/27/04	LB
Methylene chloride	ND	1	5	ug/Kg	03/27/04	LB
n-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB
n-Propylbenzene	ND	1	5	ug/Kg	03/27/04	LB
Naphthalene	ND	1	5	ug/Kg	03/27/04	LB
o-Xylene	ND	1	5	ug/Kg	03/27/04	LB
p-Isopropyltoluene	ND	1	5	ug/Kg	03/27/04	LB
Pentachloroethane	ND	1	5	ug/Kg	03/27/04	LB

DL[illegible] Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 508269 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS19B-2
Date Sampled: 03/24/2004
Time Sampled: 09:30
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Propionitrile	ND	1	5	ug/Kg	03/27/04	LB
sec-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB
Styrene	ND	1	5	ug/Kg	03/27/04	LB
tert-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB
Tetrachloroethene	ND	1	5	ug/Kg	03/27/04	LB
Toluene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/27/04	LB
Trichloroethene	ND	1	5	ug/Kg	03/27/04	LB
Trichlorofluoromethane	ND	1	5	ug/Kg	03/27/04	LB
Vinyl acetate	ND	1	50	ug/Kg	03/27/04	LB
Vinyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Xylenes, total	ND	1	5	ug/Kg	03/27/04	LB
Surrogates				**Units**	**Control Limits**	
Surr1 - Dibromofluoromethane	96			%	70 - 135	
Surr2 - 1,2-Dichloroethane-d4	112			%	70 - 135	
Surr3 - Toluene-d8	105			%	70 - 135	
Surr4 - p-Bromofluorobenzene	109			%	70 - 135	
8270C Acid/Base/Neutral Extractables						
1,2,4-Trichlorobenzene	ND	1	333	ug/Kg	03/31/04	DP
1,2-Dichlorobenzene	ND	1	333	ug/Kg	03/31/04	DP
1,3-Dichlorobenzene	ND	1	333	ug/Kg	03/31/04	DP
1,4-Dichlorobenzene	ND	1	333	ug/Kg	03/31/04	DP
2,4,5-Trichlorophenol	ND	1	1665	ug/Kg	03/31/04	DP
2,4,6-Trichlorophenol	ND	1	1665	ug/Kg	03/31/04	DP
2,4-Dichlorophenol	ND	1	333	ug/Kg	03/31/04	DP
2,4-Dimethylphenol	ND	1	333	ug/Kg	03/31/04	DP
2,4-Dinitrophenol	ND	1	1665	ug/Kg	03/31/04	DP
2,4-Dinitrotoluene	ND	1	333	ug/Kg	03/31/04	DP
2,6-Dinitrotoluene	ND	1	333	ug/Kg	03/31/04	DP
2-Chloronaphthalene	ND	1	333	ug/Kg	03/31/04	DP
2-Chlorophenol	ND	1	333	ug/Kg	03/31/04	DP
2-Methylnaphthalene	ND	1	333	ug/Kg	03/31/04	DP
2-Methylphenol	ND	1	333	ug/Kg	03/31/04	DP
2-Nitroaniline	ND	1	1665	ug/Kg	03/31/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 508269 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS19B-2
Date Sampled: 03/24/2004
Time Sampled: 09:30
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
2-Nitrophenol	ND	1	333	ug/Kg	03/31/04	DP
3,3-Dichlorobenzidine	ND	1	333	ug/Kg	03/31/04	DP
3-Methylphenol	ND	1	333	ug/Kg	03/31/04	DP
3-Nitroaniline	ND	1	1665	ug/Kg	03/31/04	DP
4,6-Dinitro-2-methylphenol	ND	1	1665	ug/Kg	03/31/04	DP
4-Bromophenyl-phenylether	ND	1	333	ug/Kg	03/31/04	DP
4-Chloro-3-methylphenol	ND	1	333	ug/Kg	03/31/04	DP
4-Chloroaniline	ND	1	333	ug/Kg	03/31/04	DP
4-Chlorophenyl-phenylether	ND	1	333	ug/Kg	03/31/04	DP
4-Methylphenol	ND	1	333	ug/Kg	03/31/04	DP
4-Nitroaniline	ND	1	1665	ug/Kg	03/31/04	DP
4-Nitrophenol	ND	1	1665	ug/Kg	03/31/04	DP
Acenaphthene	ND	1	333	ug/Kg	03/31/04	DP
Acenaphthylene	ND	1	333	ug/Kg	03/31/04	DP
Anthracene	ND	1	333	ug/Kg	03/31/04	DP
Benzidine	ND	1	333	ug/Kg	03/31/04	DP
Benzo(a)anthracene	ND	1	333	ug/Kg	03/31/04	DP
Benzo(a)pyrene	ND	1	333	ug/Kg	03/31/04	DP
Benzo(b)fluoranthene	ND	1	333	ug/Kg	03/31/04	DP
Benzo(g,h,i)perylene	ND	1	333	ug/Kg	03/31/04	DP
Benzo(k)fluoranthene	ND	1	333	ug/Kg	03/31/04	DP
Benzoic Acid	ND	1	333	ug/Kg	03/31/04	DP
Benzyl alcohol	ND	1	333	ug/Kg	03/31/04	DP
bis(2-Chloroethoxy)methane	ND	1	333	ug/Kg	03/31/04	DP
bis(2-Chloroethyl)ether	ND	1	333	ug/Kg	03/31/04	DP
bis(2-Chloroisopropyl) ether	ND	1	333	ug/Kg	03/31/04	DP
bis(2-Ethylhexyl)phthalate	ND	1	333	ug/Kg	03/31/04	DP
Butylbenzylphthalate	ND	1	333	ug/Kg	03/31/04	DP
Chrysene	ND	1	333	ug/Kg	03/31/04	DP
Di-n-butylphthalate	ND	1	333	ug/Kg	03/31/04	DP
Di-n-octylphthalate	ND	1	333	ug/Kg	03/31/04	DP
Dibenz(a,h)anthracene	ND	1	333	ug/Kg	03/31/04	DP
Dibenzofuran	ND	1	333	ug/Kg	03/31/04	DP
Diethylphthalate	ND	1	333	ug/Kg	03/31/04	DP
Dimethylphthalate	ND	1	333	ug/Kg	03/31/04	DP
Fluoranthene	ND	1	333	ug/Kg	03/31/04	DP
Fluorene	ND	1	333	ug/Kg	03/31/04	DP
Hexachlorobenzene	ND	1	333	ug/Kg	03/31/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 508269 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** F4WSMCS19B-2
Date Sampled: 03/24/2004
Time Sampled: 09:30
S[illegible]ed By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
Hexachlorobutadiene	ND	1	333	ug/Kg	03/31/04	DP
Hexachlorocyclopentadiene	ND	1	333	ug/Kg	03/31/04	DP
Hexachloroethane	ND	1	333	ug/Kg	03/31/04	DP
Indeno(1,2,3-c,d)pyrene	ND	1	333	ug/Kg	03/31/04	DP
Isophorone	ND	1	333	ug/Kg	03/31/04	DP
N-Nitroso-di-n-propylamine	ND	1	333	ug/Kg	03/31/04	DP
N-Nitrosodiphenylamine	ND	1	333	ug/Kg	03/31/04	DP
Naphthalene	ND	1	333	ug/Kg	03/31/04	DP
Nitrobenzene	ND	1	333	ug/Kg	03/31/04	DP
Pentachlorophenol	ND	1	1665	ug/Kg	03/31/04	DP
Phenanthrene	ND	1	333	ug/Kg	03/31/04	DP
Phenol	ND	1	333	ug/Kg	03/31/04	DP
Pyrene	ND	1	333	ug/Kg	03/31/04	DP

Surrogates		Units	Control Limits
2,4,6-Tribromophenol (sur)	72	%	17 - 122
2-Fluorobiphenyl (sur)	53	%	30 - 115
2-Fluorophenol (sur)	81	%	25 - 121
Nitrobenzene-d5 (sur)	60	%	23 - 120
Phenol-d5 (sur)	81	%	24 - 113
Terphenyl-d14 (sur)	68	%	18 - 137

DL[illegible] Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 508270 **Client:** BHATE

Matrix: WATER **Client Sample ID:** Trip Blank

Date Sampled:

Time Sampled:

Sampled By:

8260B Volatile Organic Compounds

Analyte	Result	DF	DLR	Units	Date/Analyst	
1,1,1,2-Tetrachloroethane	ND	1	5	ug/L	03/30/04	LB
1,1,1-Trichloroethane	ND	1	5	ug/L	03/30/04	LB
1,1,2,2-Tetrachloroethane	ND	1	5	ug/L	03/30/04	LB
1,1,2-Trichloroethane	ND	1	5	ug/L	03/30/04	LB
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/L	03/30/04	LB
1,1-Dichloroethane	ND	1	5	ug/L	03/30/04	LB
1,1-Dichloroethene	ND	1	5	ug/L	03/30/04	LB
1,1-Dichloropropene	ND	1	5	ug/L	03/30/04	LB
1,2,3-Trichlorobenzene	ND	1	5	ug/L	03/30/04	LB
1,2,3-Trichloropropane	ND	1	5	ug/L	03/30/04	LB
1,2,4-Trichlorobenzene	ND	1	5	ug/L	03/30/04	LB
1,2,4-Trimethylbenzene	ND	1	5	ug/L	03/30/04	LB
1,2-Dibromo-3-chloropropane	ND	1	5	ug/L	03/30/04	LB
1,2-Dibromoethane	ND	1	5	ug/L	03/30/04	LB
1,2-Dichlorobenzene	ND	1	5	ug/L	03/30/04	LB
1,2-Dichloroethane	ND	1	5	ug/L	03/30/04	LB
1,2-Dichloropropane	ND	1	5	ug/L	03/30/04	LB
1,3,5-Trimethylbenzene	ND	1	5	ug/L	03/30/04	LB
1,3-Dichlorobenzene	ND	1	5	ug/L	03/30/04	LB
1,3-Dichloropropane	ND	1	5	ug/L	03/30/04	LB
1,4-Dichlorobenzene	ND	1	5	ug/L	03/30/04	LB
1-Chlorohexane	ND	1	5	ug/L	03/30/04	LB
2,2-Dichloropropane	ND	1	5	ug/L	03/30/04	LB
2-Butanone (MEK)	ND	1	100	ug/L	03/30/04	LB
2-Chloroethyl vinyl ether	ND	1	5	ug/L	03/30/04	LB
2-Chlorotoluene	ND	1	5	ug/L	03/30/04	LB
2-Hexanone	ND	1	20	ug/L	03/30/04	LB
4-Chlorotoluene	ND	1	5	ug/L	03/30/04	LB
4-Methyl -2- Pentanone	ND	1	10	ug/L	03/30/04	LB
Acetone	ND	1	100	ug/L	03/30/04	LB
Acetonitrile	ND	1	50	ug/L	03/30/04	LB
Acrolein	ND	1	200	ug/L	03/30/04	LB
Acrylonitrile	ND	1	10	ug/L	03/30/04	LB
Allyl chloride	ND	1	5	ug/L	03/30/04	LB
Benzene	ND	1	1	ug/L	03/30/04	LB
Benzyl chloride	ND	1	5	ug/L	03/30/04	LB
Bromobenzene	ND	1	5	ug/L	03/30/04	LB

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 508270 **Client:** BHATE

Matrix: WATER **Client Sample ID:** Trip Blank

Date Sampled:

Time Sampled:

S ed By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Bromochloromethane	ND	1	5	ug/L	03/30/04	LB
Bromodichloromethane	ND	1	5	ug/L	03/30/04	LB
Bromoform	ND	1	5	ug/L	03/30/04	LB
Bromomethane	ND	1	5	ug/L	03/30/04	LB
Carbon Disulfide	ND	1	5	ug/L	03/30/04	LB
Carbon tetrachloride	ND	1	5	ug/L	03/30/04	LB
Chlorobenzene	ND	1	5	ug/L	03/30/04	LB
Chloroethane	ND	1	5	ug/L	03/30/04	LB
Chloroform	ND	1	5	ug/L	03/30/04	LB
Chloromethane	ND	1	5	ug/L	03/30/04	LB
cis-1,2-Dichloroethene	ND	1	5	ug/L	03/30/04	LB
cis-1,3-Dichloropropene	ND	1	5	ug/L	03/30/04	LB
cis-1,4-Dichloro-2-butene	ND	1	20	ug/L	03/30/04	LB
Dibromochloromethane	ND	1	5	ug/L	03/30/04	LB
Dibromomethane	ND	1	5	ug/L	03/30/04	LB
Dichlorodifluoromethane	ND	1	5	ug/L	03/30/04	LB
Ethyl benzene	ND	1	5	ug/L	03/30/04	LB
Ethyl methacrylate	ND	1	50	ug/L	03/30/04	LB
Hexachlorobutadiene	ND	1	5	ug/L	03/30/04	LB
Iodomethane	ND	1	5	ug/L	03/30/04	LB
Isopropylbenzene (Cumene)	ND	1	5	ug/L	03/30/04	LB
m and p-Xylene	ND	1	5	ug/L	03/30/04	LB
Methacrylonitrile	ND	1	35	ug/L	03/30/04	LB
Methyl methacrylate	ND	1	5	ug/L	03/30/04	LB
Methyl-tert-butylether (MTBE)	ND	1	1	ug/L	03/30/04	LB
Methylene chloride	ND	1	5	ug/L	03/30/04	LB
n-Butylbenzene	ND	1	5	ug/L	03/30/04	LB
n-Propylbenzene	ND	1	5	ug/L	03/30/04	LB
Naphthalene	ND	1	5	ug/L	03/30/04	LB
o-Xylene	ND	1	5	ug/L	03/30/04	LB
p-Isopropyltoluene	ND	1	5	ug/L	03/30/04	LB
Pentachloroethane	ND	1	5	ug/L	03/30/04	LB
Propionitrile	ND	1	100	ug/L	03/30/04	LB
sec-Butylbenzene	ND	1	5	ug/L	03/30/04	LB
Styrene	ND	1	5	ug/L	03/30/04	LB
tert-Butylbenzene	ND	1	5	ug/L	03/30/04	LB
Tetrachloroethene	ND	1	5	ug/L	03/30/04	LB
Toluene	ND	1	5	ug/L	03/30/04	LB

DL Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 508270 **Client:** BHATE

Matrix: WATER **Client Sample ID:** Trip Blank

Date Sampled:

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
trans-1,2-Dichloroethene	ND	1	5	ug/L	03/30/04	LB
trans-1,3-Dichloropropene	ND	1	5	ug/L	03/30/04	LB
trans-1,4-Dichloro-2-butene	ND	1	20	ug/L	03/30/04	LB
Trichloroethene	ND	1	5	ug/L	03/30/04	LB
Trichlorofluoromethane	ND	1	5	ug/L	03/30/04	LB
Vinyl acetate	ND	1	50	ug/L	03/30/04	LB
Vinyl chloride	ND	1	5	ug/L	03/30/04	LB
Xylenes, total	ND	1	5	ug/L	03/30/04	LB

Surrogates		Units	Control Limits
Surr1 - Dibromofluoromethane	109	%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	110	%	70 - 135
Surr3 - Toluene-d8	102	%	70 - 135
Surr4 - p-Bromofluorobenzene	119	%	70 - 135

DL = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 508271 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** Laboratory Method Blank
Date Sampled:
Time Sampled:
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8015 Carbon Chain I						
C06 - C10	ND	1	3	mg/Kg	03/26/04	AF
C10 - C22	ND	1	3	mg/Kg	03/26/04	AF
C22 - C36	ND	1	5	mg/Kg	03/26/04	AF
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,1-Trichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2-Trichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
1,1-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2,3-Trichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dibromoethane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichloroethane	ND	1	5	ug/Kg	03/27/04	LB
1,2-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	03/27/04	LB
1,3-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1,3-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
1,4-Dichlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
1-Chlorohexane	ND	1	5	ug/Kg	03/27/04	LB
2,2-Dichloropropane	ND	1	5	ug/Kg	03/27/04	LB
2-Butanone (MEK)	ND	1	100	ug/Kg	03/27/04	LB
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	03/27/04	LB
2-Chlorotoluene	ND	1	5	ug/Kg	03/27/04	LB
2-Hexanone	ND	1	5	ug/Kg	03/27/04	LB
4-Chlorotoluene	ND	1	5	ug/Kg	03/27/04	LB
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	03/27/04	LB
Acetone	ND	1	50	ug/Kg	03/27/04	LB
Acetonitrile	ND	1	5	ug/Kg	03/27/04	LB

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 508271 **Client:** BHATE

Matrix: SOLID **Client Sample ID:** Laboratory Method Blank

Date Sampled:

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Acrolein	ND	1	200	ug/Kg	03/27/04	LB
Acrylonitrile	ND	1	5	ug/Kg	03/27/04	LB
Allyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Benzene	ND	1	5	ug/Kg	03/27/04	LB
Benzyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Bromobenzene	ND	1	5	ug/Kg	03/27/04	LB
Bromochloromethane	ND	1	5	ug/Kg	03/27/04	LB
Bromodichloromethane	ND	1	5	ug/Kg	03/27/04	LB
Bromoform	ND	1	5	ug/Kg	03/27/04	LB
Bromomethane	ND	1	5	ug/Kg	03/27/04	LB
Carbon Disulfide	ND	1	5	ug/Kg	03/27/04	LB
Carbon tetrachloride	ND	1	5	ug/Kg	03/27/04	LB
Chlorobenzene	ND	1	5	ug/Kg	03/27/04	LB
Chloroethane	ND	1	5	ug/Kg	03/27/04	LB
Chloroform	ND	1	5	ug/Kg	03/27/04	LB
Chloromethane	ND	1	5	ug/Kg	03/27/04	LB
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/27/04	LB
Dibromochloromethane	ND	1	5	ug/Kg	03/27/04	LB
Dibromomethane	ND	1	5	ug/Kg	03/27/04	LB
Dichlorodifluoromethane	ND	1	5	ug/Kg	03/27/04	LB
Ethyl benzene	ND	1	5	ug/Kg	03/27/04	LB
Ethyl methacrylate	ND	1	5	ug/Kg	03/27/04	LB
Hexachlorobutadiene	ND	1	5	ug/Kg	03/27/04	LB
Iodomethane	ND	1	5	ug/Kg	03/27/04	LB
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	03/27/04	LB
m and p-Xylene	ND	1	5	ug/Kg	03/27/04	LB
Methacrylonitrile	ND	1	5	ug/Kg	03/27/04	LB
Methyl methacrylate	ND	1	5	ug/Kg	03/27/04	LB
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	03/27/04	LB
Methylene chloride	ND	1	5	ug/Kg	03/27/04	LB
n-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB
n-Propylbenzene	ND	1	5	ug/Kg	03/27/04	LB
Naphthalene	ND	1	5	ug/Kg	03/27/04	LB
o-Xylene	ND	1	5	ug/Kg	03/27/04	LB
p-Isopropyltoluene	ND	1	5	ug/Kg	03/27/04	LB
Pentachloroethane	ND	1	5	ug/Kg	03/27/04	LB

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 508271 **Client:** BHATE

Matrix: SOLID **Client Sample ID:** Laboratory Method Blank

Date Sampled:

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Propionitrile	ND	1	5	ug/Kg	03/27/04	LB
sec-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB
Styrene	ND	1	5	ug/Kg	03/27/04	LB
tert-Butylbenzene	ND	1	5	ug/Kg	03/27/04	LB
Tetrachloroethene	ND	1	5	ug/Kg	03/27/04	LB
Toluene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	03/27/04	LB
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	03/27/04	LB
Trichloroethene	ND	1	5	ug/Kg	03/27/04	LB
Trichlorofluoromethane	ND	1	5	ug/Kg	03/27/04	LB
Vinyl acetate	ND	1	50	ug/Kg	03/27/04	LB
Vinyl chloride	ND	1	5	ug/Kg	03/27/04	LB
Xylenes, total	ND	1	5	ug/Kg	03/27/04	LB
Surrogates				**Units**	**Control Limits**	
Surr1 - Dibromofluoromethane	97			%	70 - 135	
Surr2 - 1,2-Dichloroethane-d4	109			%	70 - 135	
Surr3 - Toluene-d8	102			%	70 - 135	
Surr4 - p-Bromofluorobenzene	111			%	70 - 135	
8270C Acid/Base/Neutral Extractables						
1,2,4-Trichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,2-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,3-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
1,4-Dichlorobenzene	ND	1	333	ug/Kg	03/30/04	DP
2,4,5-Trichlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4,6-Trichlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4-Dichlorophenol	ND	1	333	ug/Kg	03/30/04	DP
2,4-Dimethylphenol	ND	1	333	ug/Kg	03/30/04	DP
2,4-Dinitrophenol	ND	1	1665	ug/Kg	03/30/04	DP
2,4-Dinitrotoluene	ND	1	333	ug/Kg	03/30/04	DP
2,6-Dinitrotoluene	ND	1	333	ug/Kg	03/30/04	DP
2-Chloronaphthalene	ND	1	333	ug/Kg	03/30/04	DP
2-Chlorophenol	ND	1	333	ug/Kg	03/30/04	DP
2-Methylnaphthalene	ND	1	333	ug/Kg	03/30/04	DP
2-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
2-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 508271 **Client:** BHATE
Matrix: SOLID **Client Sample ID:** Laboratory Method Blank
Date Sampled:
Time Sampled:
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
2-Nitrophenol	ND	1	333	ug/Kg	03/30/04	DP
3,3-Dichlorobenzidine	ND	1	333	ug/Kg	03/30/04	DP
3-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
3-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
4,6-Dinitro-2-methylphenol	ND	1	1665	ug/Kg	03/30/04	DP
4-Bromophenyl-phenylether	ND	1	333	ug/Kg	03/30/04	DP
4-Chloro-3-methylphenol	ND	1	333	ug/Kg	03/30/04	DP
4-Chloroaniline	ND	1	333	ug/Kg	03/30/04	DP
4-Chlorophenyl-phenylether	ND	1	333	ug/Kg	03/30/04	DP
4-Methylphenol	ND	1	333	ug/Kg	03/30/04	DP
4-Nitroaniline	ND	1	1665	ug/Kg	03/30/04	DP
4-Nitrophenol	ND	1	1665	ug/Kg	03/30/04	DP
Acenaphthene	ND	1	333	ug/Kg	03/30/04	DP
Acenaphthylene	ND	1	333	ug/Kg	03/30/04	DP
Anthracene	ND	1	333	ug/Kg	03/30/04	DP
Benzidine	ND	1	333	ug/Kg	03/30/04	DP
Benzo(a)anthracene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(a)pyrene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(b)fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(g,h,i)perylene	ND	1	333	ug/Kg	03/30/04	DP
Benzo(k)fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Benzoic Acid	ND	1	333	ug/Kg	03/30/04	DP
Benzyl alcohol	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroethoxy)methane	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroethyl)ether	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Chloroisopropyl) ether	ND	1	333	ug/Kg	03/30/04	DP
bis(2-Ethylhexyl)phthalate	ND	1	333	ug/Kg	03/30/04	DP
Butylbenzylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Chrysene	ND	1	333	ug/Kg	03/30/04	DP
Di-n-butylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Di-n-octylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Dibenz(a,h)anthracene	ND	1	333	ug/Kg	03/30/04	DP
Dibenzofuran	ND	1	333	ug/Kg	03/30/04	DP
Diethylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Dimethylphthalate	ND	1	333	ug/Kg	03/30/04	DP
Fluoranthene	ND	1	333	ug/Kg	03/30/04	DP
Fluorene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorobenzene	ND	1	333	ug/Kg	03/30/04	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 508271 **Client:** BHATE

Matrix: SOLID **Client Sample ID:** Laboratory Method Blank

Date Sampled:

Time Sampled:

S ed By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8270C Acid/Base/Neutral Extractables						
Hexachlorobutadiene	ND	1	333	ug/Kg	03/30/04	DP
Hexachlorocyclopentadiene	ND	1	333	ug/Kg	03/30/04	DP
Hexachloroethane	ND	1	333	ug/Kg	03/30/04	DP
Indeno(1,2,3-c,d)pyrene	ND	1	333	ug/Kg	03/30/04	DP
Isophorone	ND	1	333	ug/Kg	03/30/04	DP
N-Nitroso-di-n-propylamine	ND	1	333	ug/Kg	03/30/04	DP
N-Nitrosodiphenylamine	ND	1	333	ug/Kg	03/30/04	DP
Naphthalene	ND	1	333	ug/Kg	03/30/04	DP
Nitrobenzene	ND	1	333	ug/Kg	03/30/04	DP
Pentachlorophenol	ND	1	1665	ug/Kg	03/30/04	DP
Phenanthrene	ND	1	333	ug/Kg	03/30/04	DP
Phenol	ND	1	333	ug/Kg	03/30/04	DP
Pyrene	ND	1	333	ug/Kg	03/30/04	DP

Surrogates		**Units**	**Control Limits**
2,4,6-Tribromophenol (sur)	58	%	17 - 122
2-Fluorobiphenyl (sur)	48	%	30 - 115
2-Fluorophenol (sur)	76	%	25 - 121
Nitrobenzene-d5 (sur)	48	%	23 - 120
Phenol-d5 (sur)	75	%	24 - 113
Terphenyl-d14 (sur)	86	%	18 - 137

DL Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 126715-269

Matrix: SOLID

Extraction Method : 3545

Prep. Date: 03/25/04

Analysis Date: 03/26/04

ID#'s in Batch: LR 126715, 126667, 126669, 126604

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = mg/Kg

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
DIESEL	8015D	ND	25	24.1	24.3	96	97	1

ND = Not Detected
RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate
%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

%REC LIMITS = 70 - 130
RPD LIMITS = 30

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

	PREP BLK					
	Value	Result	True	%Rec	L.Limit	H.Limit
LCS	ND	26	25	104	70%	130%
LCSD	ND	29	25	116	70%	130%

LCS Result = Lab Control Sample Result
True = True Value of LCS
L.Limit / H.Limit = LCS Control Limits

SURROGATE RECOVERY

Sample No.	O-Terphenyl
QC Limit	55-200
MS	110
MSD	110
Method Blank	105
	129
LCSD	176

ASSOCIATED LABORATORIES

LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: LCS/LCSD - Soil Samples

Analysis Date: 03/27/04

Applies to: LR 126645, 126715, 126783, 126703

Reporting Units = ug/Kg

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits RPD	QC Limits %REC
1,1-Dichloroethene	ND	50	54.68	50.73	109	101	7	22	59-172
MTBE	ND	50	50.97	49.86	102	100	2	24	62-137
Benzene	ND	50	57.38	53.82	115	108	6	24	62-137
Trichloroethene	ND	50	64.48	60.49	129	121	6	21	66-142
Toluene	ND	50	54.52	57.30	109	115	5	21	59-139
Chlorobenzene	ND	50	53.19	54.61	106	109	3	21	60-133

Method Blank = All ND

SURROGATE (QC Limits : 70-135)

Compounds	DBFM	1,2-DCA	Tol-d8	p-BFB
LCS	91	100	99	111
LCSD	91	98	105	113
BLANK # 3	97	109	102	111
BLANK # 4	96	112	108	109

ASSOCIATED LABORATORIES

LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: LCS/LCSD - Water Samples

Analysis Date: 03/29/04

Applies to: LR 126630, 126636, 126715, 126874

Reporting Units = ug/L

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits RPD	QC Limits %REC
1,1-Dichloroethene	ND	50	58.99	60.05	118	120	2	22	59-172
MTBE	ND	50	48.96	46.77	98	94	5	24	62-137
Benzene	ND	50	53.04	51.79	106	104	2	24	62-137
Trichloroethene	ND	50	61.08	58.13	122	116	5	21	66-142
Toluene	ND	50	56.05	53.02	112	106	6	21	59-139
Chlorobenzene	ND	50	52.77	53.52	106	107	1	21	60-133

Method Blank = All ND

SURROGATE (QC Limits : 70-135)

Compounds	DBFM	1,2-DCA	Tol-d8	p-BFB
LCS	116	102	103	104
LCSD	117	94	105	103
BLANK # 1	112	115	100	126
BLANK # 2	111	116	100	119

ASSOCIATED LABORATORIES

QA REPORT FORM

Method : EPA 8270/625

Pre[illegible]thod : 3545

QC Sample: MS/MSD 126645-988

Matrix: SOLID

Date Extracted : 03/25/04

Date Analyzed : 03/30/04

Applies to: LR 126645, 126715

REPORTING UNITS = ug/Kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Test	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup.	%Rec MS	%Rec MSD	RPD	QC Limits RPD	QC Limits %REC
Phenol	ND	50	34	32	68	64	6	42	6-117
2-Chorophenol	ND	50	33	30	66	60	10	35	28-100
1,4-Dichlorobenzene	ND	50	31	29	62	58	7	36	39-92
n-Nitroso-di-n-propylamine	ND	50	39	36	78	72	8	42	5-149
1,2,4-Trichlorobenzene	ND	50	27	28	54	56	4	41	41-97
4-Chloro-3-methylphenol	ND	50	29	31	58	62	7	37	26-117
Acenaphthene	ND	50	28	33	56	66	16	41	46-113
4-Ni[illegible]ol	ND	50	33	36	66	72	9	73	53-143
2,4-Dinitrotoluene *	ND	50	37	42	74	84	13	43	82-125
Pentachlorophenol	ND	50	40	39	80	78	3	52	25-187
Pyrene	ND	50	43	42	86	84	2	36	47-136

***MS recovery limits were out of control. MSD, LCS and MB conformed for all spike compounds.**

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	%Rec LCS	QC LIMIT %REC
Phenol	ND	50	27	54	17-99
2-Clorophenol	ND	50	27	54	28-88
1,4-Dichlorobenzene	ND	50	27	54	33-89
n-Nitroso-di-n-propylamine	ND	50	30	60	9-130
1,2,4-Trichlorobenzene	ND	50	24	48	25-92
4-Cloro-3-methylphenol	ND	50	27	54	27-96
Acenaphthene	ND	50	28	56	31-101
4-Nitrophenol	ND	50	31	62	8-123
2,4-Dinitrotoluene	ND	50	38	76	27-139
Pentachlorophenol	ND	50	31	62	0-151
Pyre[illegible]	ND	50	43	86	34-127

Method Blank = All ND

ASSOCIATED LABORATORIES

NARRATIVE

Date: March 31, 2004

Narrative for Lab Request LR: 126715

Client Project Identification:
Project: Drone Crash
This narrative includes all samples as shown on the attached Lab Request final report.

Analyses Requested:

- EPA 8015 – Carbon Chain I.
- EPA 8260B – Volatile Organic Compounds.
- EPA 8270C – Acid & Base/Neutral Extractables.

Data Validation:

Holding Times
All EPA designated holding times were met.

Calibration
Initial calibration criteria were met for all analytes. Initial and Continuing Calibration Check samples were run at the required frequency. All results were within required limits.

Quality Control Samples
Following is a summary of the QC data, along with an explanation of any samples that were outside QC limits and corrective actions that were taken:

- **EPA 8270:** MS spike recovery was out of control for 2,4-Dinitrotoluene, due to matrix interference. Corrective action: The remaining MS/MSD spike recoveries and all LCS recoveries were within control. Furthermore, Method was ND, and all surrogate recoveries conformed. The QC batch was acceptable, and no corrective action was necessary.

- **EPA 8015 & 8260:** All QC results were within control.

Other Anomalies or Comments
The reporting limit (DLR) is adjusted if dilution of the sample is necessary. For 8270, the MS/MSD and LCS limits shown in the raw data are incorrect. The correct limits are on the QC summary sheet. For 8260, sample were analyzed on 3/27/04, and trip blank was analyzed on 3/30/04 for 8260.

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868-1225 - 714/771-6900 FAX 714/538-1209

Cooler Receipt Form

Client: Bhate Project: 903232 03.02

Date Cooler Received: 3/25 Date Cooler Opened: 3/25

Was cooler scanned for presence of radioactivity ? Yes/No
If yes was radioactivity results above 25 cpm ? Yes/No

Was a shipper's packing slip attached to the cooler ? Yes/No

If the cooler had custody seal(s), were thy signed and intact ? Yes/No/Na

Was the cooler packed with: Ice ✓ Ice Packs _____ Bubble wrap _____
Styrofoam _____ Paper _____ None _____ Other _____

Cooler Temperature: 2.2°C *
*cooler needs to be received @ 4°C with an acceptable range of 2°- 6 °C

If samples were hand delivered do they meet the temp. criteria, which should be @ 4°C with an acceptable range of 2°- 6 °C ? Yes/No

If no explain: _____

Were all samples sealed in plastic bags ? Yes/No

Did all samples arrive intact ? If no, indicate below. Yes/No

Were all samples labeled correctly ? (ID's Dates, Times) If no, indicate below. Yes/No

Can the tests required be ran with the provided containers, If no indicate below. Yes/No

Was sufficient sample volume sent for all containers ? Yes/No

Were any VOA vials received with head space ? Yes/No/Na

Was the correct preservatives used ? Yes/No/Na
If no, see the pH log for a list of samples containers regarding pH

Any other important information: _____

Receiving Department: M Date: 3/25

DHATE
Environmental Associates, Inc.
1608 13th Avenue South, Suite 300
Birmingham, Alabama 35205
Tel: 205-918-4000
Fax: 205-918-4050

126715

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Chain of Custody and Analytical Request

Project Number: 903232.03.02

Chain of Custody Number (1): 324200401

LIMS Number:

Facility/Base I.D.: Holman

Project Name / Site Name: Drone Crash

Client Name: USACE

Collected by: Daniel Tucker

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC 8260	SVOC 8270	TPH 8015						Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
F4WSMCS16B2	F4WSM	24032004	0920	2'-2'	N	1	SO	4	✓	✓	✓									1
F4WSMCS19B2	F4WSM	24032004	0930	2'-2'	N	1	SO	4	✓	✓	✓									1
Trip Blank				-				1												1
				-																
				-																
				-																
				-																
				-																
				-																
				-																
				-																

Sample Analysis Requested (5)

Quality Assurance Samples (6)

COMMENTS: fed Ex shipper # 8426 0329 5190
fax results to (505) 679-2148
email (PDF) file to Holloman

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [signature]	3-24-04	1600	1. [signature]	3/25	1020
2.			2.		
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:
Method of Shipment: fed Ex Airbill Number:
Analytical Lab: Associated Delivery Location: Orange CA
Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)
2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc.), SQ = Soil Blanks
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control)

DISTRIBUTION: WHITE COPY - Project File YELLOW COPY - Lab Copy PINK COPY - Working File

APPENDIX H

DRONE CRASH SITE WASTE MANIFESTS

NMG572124422

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. 9 ~~NA~~	Manifest Doc. No. 3-09-04	2. Page 1 of 1

GENERATOR

3. Generator's Name and Mailing Address 49th CES/CEV Highway 70 Holloman AFB NM 38330 — White Sands National Monument

4. Generator's Phone (505) 572-3921

5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone
Rhino Enu	N/A	(505) 644-7820
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	C. Facility's Phone
Rhino Enu Serv 1.7 miles Nat NM/Tx Stateline Hwy 54, Otero County NM (DP-1051)	N/A	(915) 842-9911

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Jet Fuel / Impacted Soil	1	Belly Dump	25	CY
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above: Non Hazardous / Impacted Jet Fuel

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]			

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Jerry Rivero	[signature]	3	9	04

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

Address Line # 5: 200 Sunset Dr, Suite D, El Paso TX 79922

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A
Manifest Doc. No.:
2. Page 1 of 1

3. Generator's Name and Mailing Address: 49 CES/CEV Hwy 70 Holloman AFB N.M. 88330

4. Generator's Phone: (505) 572-3531

5. Transporter 1 Company Name: DNJ Trucking
6. US EPA ID Number: N/A
A. Transporter's Phone: (505) 430-2155

7. Transporter 2 Company Name:
8. US EPA ID Number:
B. Transporter's Phone:

9. Designated Facility Name and Site Address: Rhino Environmental (DP1051) 1.7 m. North of N.M./TX State line Hwy 51 Chaves Co. N.M.
10. US EPA ID Number: N/A
C. Facility's Phone: (915) 842-9911 (800) 760-0941

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon impacted Soil	1	BOX	20	CY
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above: Exempt \ Non Hazardous \ Soil Contaminated

E. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information:

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Dan Holmquist
Signature:
Month / Day / Year:

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Lionel Gonzales
Signature:
Month: 03 Day: 22 Year: 09

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Month / Day / Year:

19. Discrepancy Indication Space:

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name:
Signature:
Month / Day / Year:

GENERATOR — TRANSPORTER — FACILITY

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc. No.	2. Page 1 of 1

3. Generator's Name and Mailing Address
49 CES/CEV Hwy 70 Holloman AFB ~~AL~~ NM 88330

4. Generator's Phone (505 572-3931

5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone
DNJ Trucking	N/A	(505) 430 2455
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	C. Facility's Phone
Rhino Environmental (DP1051) 1.7m North of NM/Tx state line Hwy 54 Otero, NM	N/A	(915) 842-9911 (800) 762-0241

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon impacted soil	1	Dump	20	cy
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Exempt \ Non-Hazardous \ Jet fuel contaminated

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Dan Holmquist				

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Lionel Gonzales	[signature]	03	22	0

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]			

GENERATOR

TRANSPORTER

FACIL

GENERATOR'S COPY