



Transmitted Electronically

April 23, 2008

Mr. David Dorian
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**Subject: Subsurface Soil and Groundwater Sampling Report, Revision 1
Mills Gap
U.S. EPA Site ID: A4P5
EPA Contract No.: EP-W-05-053
Technical Direction Document (TDD) No.: TNA-05-001-0043**

Dear Mr. Dorian:

T N & Associates, Inc. (TN&A), Superfund Technical Assessment and Response Team (START) is submitting one copy of the Subsurface Soil and Groundwater Sampling Report, Revision 1 for the Mills Gap site located in Asheville, Buncombe County, North Carolina.

Please contact me at (678) 355-5550, ext. 5701 or Greg Kowalski, at (678) 355-5500, ext. 5704 with any questions or comments regarding this submittal.

Sincerely,

Ryan Stubbs
START Project Manager

Enclosure

cc: Katrina Jones, EPA Project Officer
Darryl Walker, EPA Project Officer
Greg Kowalski, START Program Manager
START File

**SUBSURFACE SOIL AND GROUNDWATER SAMPLING
REPORT**

**MILLS GAP
ASHEVILLE, BUNCOMBE COUNTY, NORTH CAROLINA
TDD: TNA-05-001-0043**

Revision 1

Prepared for:

**U.S. ENVIRONMENTAL PROTECTION AGENCY
Region 4
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Prepared by:

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1.0 INTRODUCTION

The U.S. Environmental Protection Agency (EPA) tasked the T N & Associates, Inc., (TN&A) Superfund Technical Assessment and Response Team (START) to provide technical support during Removal Action (RA) Assessment activities conducted at the Mills Gap Groundwater Contamination site (the site), located in Asheville, Buncombe County, North Carolina, under Contract Number (No.) EP-W-05-053, Technical Direction Document (TDD) No. TNA-05-001-0043. The site is an ongoing Time-Critical Removal conducted under an Administrative Order on Consent (AOC) (January 2004) between EPA, CTS, Inc. (CTS), and Mills Gap Road Associates (MGRA). Trichloroethylene (TCE), 1,1,1-trichloroethane (1,1,1-TCA), and petroleum hydrocarbon contamination have been previously identified in surface water near the site. Previous studies have indicated that local groundwater contamination is associated with site contamination.

Specific elements of this TDD include: (1) collection of subsurface soil and groundwater samples from specified locations on site and on residential properties located near the site for laboratory analysis; (2) coordination with the EPA Sample Coordinator for laboratory services through the Contract Laboratory Program (CLP); (3) assistance in off-site access agreement acquisition; (4) oversight of soil vapor sampling; (5) documentation of field investigation activities using written logbook notes and digital photographs; and, (6) preparation of a comprehensive final report.

All activities and procedures were performed in accordance with the EPA Science and Ecosystem Support Division (ESD) Region 4 *Environmental Investigation Standard Operating Procedures and Quality Assurance Manual* (EISOPQAM) and the TN&A Quality Assurance Project Plan (QAPP) (Refs. 1, 2). Environmental and quality assurance/quality control (QA/QC) analytical data was evaluated and summary data tables are included as Appendix B. Significant QA/QC issues regarding sample collection, handling, and analysis are identified as necessary within the report.

The following sections provide the details of this report:

- Section 2 – Describes the site and its history, previous investigations, and environmental setting.
- Section 3 – Describes the field investigation activities.
- Section 4 – Describes the analytical results of field samples.
- Section 5 – Presents the summary and conclusions.

Figures and tables are provided in Appendices A and B, respectively. References are cited throughout the report to substantiate site-specific statements.

2.0 SITE BACKGROUND

This section presents a description of the site including a brief site history; previous removal activities and investigations; and, identifies potential source areas.

2.1 SITE DESCRIPTION

The site is located off of Mills Gap Road, approximately 1 mile east of Skyland, in Asheville, Buncombe County, North Carolina. The nine-acre fenced property represents the core industrial portion of the original 54 acre CTS holding. The remaining 46 acres have been sold and redeveloped into residential property. The only structure located on the site is a large single-story building formerly used for manufacturing of electronic components utilized in automotive parts and hearing aids. The geographic coordinates of the center of the site are 35° 29' 36" North latitude and 82° 30' 22" West longitude (see Appendix A, Figure 1). The area surrounding the property is mixed industrial and residential. Residences are located within 100 yards of the former industrial complex.

2.2 SITE HISTORY

In 1952, IRC, Inc. (IRC) purchased the land and constructed the building which was used to house the former electroplating operations. In 1959, IRC sold the site to CTS. Until 1986, CTS manufactured electronic components and conducted electroplating operations at the site (Ref. 3). The chemical compound TCE was employed by both IRC and CTS to clean and/or degrease metal parts prior to electroplating. The current owner, MGRA, purchased the property in 1987, and operation of the current Soil Vapor Extraction System is the only process on site.

The site was discovered by the North Carolina Department of Environment and Natural Resources (NCDENR) in July 1999, after a follow-up to a citizen complaint. Following several investigations to identify the source of, and the mitigation of the immediate threat posed by TCE, 1,1,1-TCA, and petroleum hydrocarbon contamination in surface water near the site and local groundwater, EPA entered into an AOC with the identified Potentially Responsible Parties (PRP) (MGRA and CTS) in January 2004. The AOC requires the PRP to (1) mitigate the source in the vadose zone (soil above groundwater),

(2) assess potable wells determined to have a reasonable potential of being impacted by releases from the Site and which have access to an alternate potable water supply, and (3) evaluate the feasibility of capturing water discharging from the contaminated springs.

2.3 PREVIOUS REMOVAL ACTIVITIES/SITE INVESTIGATIONS

On August 31, 1987, Law Environmental, Inc. (Law) submitted a "Report of Site Assessment Services" on behalf of CTS as part of a Phase I investigation prior to the sale of the property. The report identified several areas outside of the building that were formerly used in the handling of hazardous substances, and that a single above ground storage tank (AST) containing TCE had been located on the west side of the building. A Hazardous Waste Treatment Pit, utilized in the plating operations, was located inside the building. Additionally, several small chemical storage areas including: a TCE pit or sump; a sulfuric acid tank; and a sodium hydroxide tank were located inside the Plating Room area of the building. The TCE pit measured approximately 7 feet by 7 feet and 2 to 3 feet in depth, and at the time of the Phase I, appeared to be relatively clean with no significant build up of waste sludge or residue. Several samples were collected during the investigation. Subsurface soil sample results from areas outside the building indicated low to non-detect concentrations of metals and volatile organic compounds (VOCs). However, TCE was detected in all of the soil samples collected during the investigation. The investigation revealed that tetrachloroethene, xylene, decane, and hexane were present within the electroplating areas inside the building and that VOCs were present in the subsurface soils, residues, and sludges at the property (Ref. 3).

In 1989, the EPA Field Investigation Team (FIT) contractor, NUS Corporation, conducted a Screening Site Inspection (SSI), Phase I for EPA Region 4. Based on the number of target populations, FIT recommended that, a high priority Phase II Screening Site Inspection of the property be conducted. (Ref. 4).

In 1991, EPA FIT contractor, NUS Corporation, conducted a SSI, Phase II. Eighteen environmental samples were collected during the field investigation associated with this study. Several organic and inorganic substances including cadmium, magnesium, manganese, vanadium, beryllium, barium, nickel, zinc, 1,2-dichloroethene, and vinyl chloride were detected at elevated levels in soil, sediment, and surface water samples collected from the property. Nickel and zinc were used in electroplating operations, and some of the solvents identified were used to degrease equipment. The possible migration pathways were

evaluated based on available file materials and the results of the sampling investigation, and it was recommended that no further remedial action be planned for CTS (Ref. 5).

On August 16, 1999, NCDENR Superfund Section submitted an Immediate Removal Evaluation Request to EPA Region 4 Emergency Response and Removal Branch (ERRB) for removal eligibility consideration. The request followed NCDENR sampling of contaminated springs in close proximity to the former CTS site. High concentrations of chlorinated solvents were identified in two springs and one domestic well, located topographically down-gradient from the site.

On August 20, 1999, ERRB conducted a Removal Site Evaluation (RSE) in accordance with the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), 40 CFR §300.410. Conditions at the site, specifically contamination of potable drinking water supplies with chlorinated solvents, were found to pose a threat to public health or welfare of the environment. Based on the results of the NCDENR water samples, bottled water was provided to the four households using the spring and well. Subsequently, the affected residences were connected to the Asheville-Buncombe municipal water supply.

In November 1999, EPA START conducted soil sampling at the site. Analytical results indicated varying concentrations of VOC and extractable organic compounds (SVOC) in some samples.

In August 2000, EPA Environmental Response Team (ERT) searched for buried sources of contamination on and around the site using magnetic and electromagnetic geophysical techniques; and sampled the two springs ("Upper" and "Lower") previously sampled by NCDENR. Laboratory results indicated that water from the Lower Spring contained approximately 11,000 micrograms per liter (µg/L) of TCE, small amounts of benzene and xylenes, and 16,000 µg/L of total petroleum hydrocarbons (TPH). Water from the Upper Spring contained approximately 200,000 µg/L of TPH and low amounts of TCE.

Based on the findings of the survey, in September 2000 ERT excavated several trenches in potential target areas identified both from the geophysical surveys and from observations of surface debris. ERT investigations did not identify buried drums.

In July 2001, EPA ERT conducted a subsurface soil investigation at the site to identify possible source of groundwater contamination beneath the building. A truck-mounted Geoprobe® was used to advance and sample 10 borings through the concrete floor of the building and two borings outside of the building.

Subsurface soil samples were collected from each boring and submitted to the Response, Engineering and Analytical Contractor (REAC) Laboratories in Edison, New Jersey for analysis of VOC, base neutral and acid extractable compounds (BNA), TPH, and fingerprint analyses of detected TPH. Analytical results from soil samples collected from beneath the former CTS building revealed elevated concentrations of VOC [830,000 micrograms per kilogram ($\mu\text{g/kg}$) TCE], BNA, and petroleum hydrocarbons (assumed to be No. 2 fuel oil). TCE was detected in all of the soil samples collected and was typically present at the highest concentrations relative to the other chemical compounds identified. Toxicity Characteristic Leaching Procedure (TCLP) analysis of a selected soil sample collected from 32–34 feet below ground surface (bgs), near the water table, resulted in a TCE result of 7 milligrams per liter (mg/L) compared to the regulatory level of 0.5 mg/L.

In January 2004, EPA entered into an AOC with the PRP to mitigate the source of contamination to groundwater, assess the potable wells with the potential to be impacted by the site, and to evaluate the feasibility of capturing water discharging from the contaminated springs. In accordance with the AOC, on-site removal activities began in June 2004.

In March 2004, MACTEC Engineering and Consulting, Inc (MACTEC), on behalf of CTS and MGRA, submitted a Sampling and Analysis Plan (SAP) to survey potential potable wells located downgradient of the site evaluate the feasibility of containment of water emanating from the contaminated springs; and delineate the contaminant source area to support a decision on the best type of technology to remove contaminants from the soil at the site. In May 2004, the responsible parties (RPs) submitted a Removal Action Pilot Study Plan (RAPSP), which outlined the use of Soil Vapor Extraction (SVE) to mitigate the contaminant source. MACTEC conducted a pilot study in August 2004.

The SAP was implemented in summer of 2004, and the Respondents completed the report in September 2004. A door-to-door potable well survey was conducted to identify potentially impacted wells. The report identified nine potential wells (ultimately only seven were still open) located within the one-mile radius.

The AOC Respondents used the geological data from the SAP report and the results of the pilot study to design an SVE system with 14 vapor extraction wells. In the summer of 2006, construction of the SVE system was completed, and by July 2006 the system was operational. The system continues to operate, and to date over 2,900 pounds of TCE has been removed from the soil.

From November 27 to December 7, 2007, NCDENR sampled 66 residential wells within a one-mile radius as part of an expanded assessment of the site RA. One well, located approximately 0.75-mile northeast of the site contained TCE at 57 µg/L, a value in excess of the 5 µg/L National Drinking Water Regulations Maximum Contaminant Level (MCL). The sampling also detected trace quantities (10.2 µg/L) of cis-1,2-dichlorethylene (cis-1,2-DCE), a breakdown product of TCE. Confirmatory sampling conducted on December 14, 2008 by START indicated TCE concentrations at 54.1 µg/L and cis-1,2-DCE concentrations at 9.65 µg/L, substantiating the original result.

One well on Concord Road, taken out of service in 1999, was re-sampled as a basis for comparison to historical data. Testing re-confirmed the presence of TCE in the well at 929 µg/L compared to 270 µg/L detected back in 1999.

On January 8, 2008, NCDENR tested eight active residential wells in the immediate area of the contaminated well. One well, located approximately ¾ mile northeast of the site also contained TCE at a concentration of 4.32 µg/L and cis-1,2-DCE at 1.35 µg/L. No VOCs or SVOCs were detected in the other seven wells.

3.0 FIELD INVESTIGATION ACTIVITIES

This section describes field investigation activities conducted by ERT with START technical assistance from December 12 to December 14, 2007 and from January 14 to January 16, 2008. Individual subsections address the specific investigation activities. All sample collection activities and procedures were performed in accordance with the EPA-approved site-specific Sampling and Analysis Plan–Revision 0, dated December 2007. Written field logbook notes are presented as Appendix C and a photographic log of site activities is presented as Appendix D.

3.1 SAMPLE COLLECTION METHODOLOGY AND PROCEDURES

ERT and START personnel collected 17 subsurface soil samples and eight temporary monitoring well groundwater samples during the investigation. All sample collection activities and procedures were performed in accordance with the November 2001 EISOPQAM. Additional QA/QC samples such as blanks, duplicates, and matrix spike/matrix spike duplicate (MS/MSD) samples were collected as required by the EISOPQAM.

The following sections describe subsurface soil sampling and groundwater sampling conducted during the field investigations.

3.1.1 Subsurface Soil Sampling

From December 12 to December 13, 2007, and from January 14 to January 15, 2008, EPA ERT, REAC, START, and the EPA On-Scene Coordinator (OSC) conducted a subsurface soil assessment at specified locations both on site and off site. Fifteen soil borings were drilled in the assessment area using a track-mounted Geoprobe® drill rig equipped with Direct-Push Technology (DPT). Figure 2 located in Appendix A illustrates the assessment area and the locations of the soil borings. Soil type and descriptions for the soil borings were recorded by ERT REAC on boring logs that are presented as Appendix E.

A 4-foot acetate-lined MacroCore™ sampler was used to extract soil cores for organic and inorganic analyses. START screened the soil in each 4-foot sleeve for organic vapors using a TVA 1000 photo ionization detector/flame ionization detector (PID/FID). One soil sample was collected from each soil boring from the depth interval indicating the highest PID/FID reading. Table 1 located in Appendix B presents a summary of the subsurface soil samples collected.

Samples for VOC analysis were collected using Terracore® samplers, while samples for the remaining analyses were collected using a stainless steel spoon, homogenized in a stainless steel bowl, and containerized in the appropriate sample containers.

3.1.2 Groundwater Sampling

From December 13 to December 14, 2007 and on January 16, 2008, START collected groundwater samples from six temporary monitoring wells installed by ERT using a Geoprobe®. Figure 3 located in Appendix A illustrates the assessment area and the approximate locations of the groundwater samples. Table 2 located in Appendix B presents a summary of the groundwater samples collected.

A Solinst® water level indicator was used at each temporary monitoring well location to measure the depth to groundwater and the total depth of the well. Using standard purging techniques with a peristaltic pump and dedicated polyethylene tubing, the wells were purged until water quality parameters (temperature, pH, conductivity, turbidity) stabilized, the well was purged dry, or a minimum of three well

volumes was removed. Continuous groundwater quality parameters were obtained using a Horiba U-22 water quality meter attached to a flow-through cell and were recorded on purge logs (see Appendix C). Table 4 provided in Appendix B presents a summary of the groundwater quality parameters recorded for each well.

3.2 SOIL GAS SURVEY AND VAPOR PATHWAY MIGRATION STUDY

From December 3 to December 6, 2007, START assisted the EPA in obtaining permission to access off-site properties to conduct the soil vapor study. Access to off-site properties was achieved through a signed access agreement explaining the scope of work to the property owner.

On December 10, 2007 START mobilized to the site to conduct oversight of ERT REAC during soil vapor study activities. REAC utilized two sampling methods for the soil vapor study based on the type of foundation present at each residential property. Properties on a basement or concrete slab foundation were sampled using a sub-slab air sampling technique while a passive air sampling technique was used to sample properties on a dirt crawlspace foundation. Ten sub-slab air samples, 12 passive air (Summa[®]) samples, and an additional 18 “slam-bar” samples were collected by REAC from off-site residential properties. Table 3 located in Appendix B presents a summary of the soil vapor samples. Four seep air samples were also collected by REAC near the springs located east of the site. Figures 4 and 5 located in Appendix A illustrate the assessment area and the locations of sub-slab, passive, soil gas “slam-bar”, and seep air samples.

Passive air samples were submitted to a REAC specified laboratory for VOC analysis by modified REAC Standard Operating Procedure (SOP) method 1814. All other samples were analyzed by a Trace Atmospheric Gas Analyzer (TAGA) mounted to a bus. The TAGA was also used to sample outdoor ambient air during mobile monitoring events along the roads in the vicinity of the site.

ERT’s air vapor sampling reports, summarizing investigations and findings, are included as Attachments 1 through 3.

3.3 QUALITY CONTROL/QUALITY ASSURANCE SAMPLES

Sixteen QA samples were collected during the RA assessment field sampling investigation. Five water and four soil trip blank samples were included with each VOC sample submittal to the laboratory as

required by EISOPQAM. Four rinsate blanks, two preservative blanks, and one metal blank were also submitted for QA purposes. QC samples included a MS/MSD for inorganic analyses and organic analyses at a rate of one MS/MSD per 20 samples per matrix per analysis, and a field duplicate for inorganic and organic analyses at a rate of one field duplicate per 10 samples per matrix per analysis. All QA/QC samples were collected in accordance with the EISOPQAM and the approved site-specific SAP. Trace-level concentrations of several contaminants were identified in the metals, trip, and equipment rinsate blanks. All concentrations of contaminants were considered when reviewing the final analytical data (see Appendix F for the complete analytical data set). Section 3.6 summarizes data qualifications made based on QA/QC results.

3.4 GLOBAL POSITION SYSTEM

A Trimble™ GeoXT™ Global Position System (GPS) was used in the field to survey sampling locations. GPS coordinates were collected from the exact sampling location with the following exception. If a station was in an area where a GPS signal could not be received, sampling stations were collected from the nearest point where a signal was received and noted in the field logbook. Tables 1 through 3 in Appendix B present the GPS coordinates for each sample collected.

3.5 ANALYTICAL SUPPORT AND METHODOLOGY

Subsurface and groundwater samples were processed and tracked using the FORMS II Lite® sample tracking software. EPA selected the analytical service providers through the CLP. CLP laboratories analyzed soil and groundwater samples for TCL Semivolatile Organic Compounds (SVOC) by CLP Statement of Work SOM01.2, and total cyanide and RCRA 8 metals by CLP SOW ILM05.3. Samples collected in December 2007 were also analyzed by a CLP laboratory for EPA Target Compound List (TCL) VOC by SOW SOM01.2 while samples collected in January 2008 were analyzed by the SESD Regional Laboratory, Athens, Georgia, for TCL VOC by SW846 Method 8260B.

The labs submitted all analytical data to EPA SESD for analytical validation and compliance with CLP terms. Validated data for this report were then submitted to START. Analytical data sheets are presented in Appendix E.

3.6 ANALYTICAL DATA QUALITY AND DATA QUALIFIERS

All analytical data are subject to a QA review, as described in the EPA SESD laboratory data evaluation guidelines. In the text and analytical data tables in this report, some concentrations of organic and inorganic parameters are qualified with a “J”. A “J” qualifier indicates that the qualitative analysis is acceptable; although the quantitative value is only estimated. Results of some sample analyses are qualified with a “U”, meaning that the constituent was analyzed for but not detected. The reported number is the laboratory-derived Sample Quantitation Limit (SQL) for the constituent in that sample. Sample results qualified with a “NJ” indicate that there is presumptive evidence of the analyte, but the results should be considered tentative and those results qualified with an “R” indicate the data were rejected and unusable.

In general, SESD qualified VOC data due to high and low performance evaluation (PE) sample recoveries of target compounds; erratic initial and continuing calibration performance; and, low surrogate recoveries. SVOC data were qualified due to low PE recoveries for target compounds. SESD qualified inorganic data due to low MS/MSD recoveries; high PE recoveries; and Inductively Coupled Plasma (ICP) check sample percent differences (%D) outside QC limits.

Additional data qualifications were warranted due to contamination present in QC samples such as trip blanks and equipment rinsate blanks. Specifically, barium was detected below the SQL in the rinsate blank sample associated with groundwater samples collected on December 13, 2007. The result for barium in sample MGGC-GW-01 was qualified as non-detect at the SQL. Of special note, total cyanide was initially detected above the SQL in the preservative blank sample collected in January 2008. A thorough review of the analytical data by the EPA indicated that the CLP laboratory performing the inorganic analysis mislabeled the preservative blank sample during cyanide analysis. The cyanide result was non-detect for the re-extracted and re-analyzed preservative blank sample.

Field duplicate sample results for inorganic and organic analytes were within 50% of each other for soil samples and 30% for water samples.

4.0 ANALYTICAL RESULTS

The following sections summarize CLP analytical results for samples collected during the RA field activities. For the purpose of evaluating sample results, subsurface soil results were compared to the

Region 9 Preliminary Remediation Goals (PRG) for potential contact with industrial soil and groundwater results were compared to the PRG for tap water (Ref. 6). Region 9 PRGs are based on 10^{-6} and 10^{-4} risk levels; therefore all results presented in this report are compared to both values. North Carolina Administrative Code (NCAC) Title 15A NCDENR Subchapter 2L Groundwater Standard values were also included in the groundwater analytical data tables for reference purposes.

4.1 SUBSURFACE SOIL

Subsurface soil results indicated that eight SVOC [mostly polycyclic aromatic hydrocarbons (PAH)], arsenic, barium, chromium, lead, selenium, silver, and acetone were detected in the soils. Table 5 located in Appendix B presents a summary of the analytical results for the subsurface soil samples while Figure 2 located in Appendix A illustrates the assessment area and the results for several site-specific constituents of concern in the subsurface soil samples.

Only arsenic was detected above the 10^{-6} PRG of 1.6 milligrams per kilogram (mg/kg) in the subsurface soil samples. Arsenic concentrations ranged from 2.1 to 6.1 mg/kg exceeding the 10^{-6} PRG in six samples but not exceeding the 10^{-4} PRG. These arsenic results were flagged as estimated values. Additionally, PAHs were detected above the SQL in only one sample (MGGC-SB-02); however, all of the PAH results were below their associated 10^{-6} PRG.

4.2 GROUNDWATER

Groundwater analytical results indicated the presence of total cyanide, barium, chromium, lead, (3-and/or 4-)methylphenol, 2-methylnaphthalene, n-nitroso di-n-propylamine, pentachlorophenol, phenol, benzene, cis-1,2-DCE, toluene, TCE, and vinyl chloride. Table 6 located in Appendix B presents a summary of the groundwater sample results including the PRG values used as benchmarks, and Figure 3 located in Appendix A illustrates the assessment area and the results for site-specific constituents of concern in groundwater samples.

TCE was detected in five samples at concentrations ranging from 13 to 1,500 $\mu\text{g/L}$, exceeding both the 10^{-6} and 10^{-4} PRGs for tap water. Sample MGGC-GW-01 contained the highest concentration of TCE at 1,500 $\mu\text{g/L}$. Additionally, nitroso di-n-propylamine, and cis-1,2-DCE were detected in sample MGGC-GW-01 at concentrations of 0.87 $\mu\text{g/L}$ and 130 $\mu\text{g/L}$, respectively. Both values exceed their respective 10^{-6} PRGs; however, both detections were below the 10^{-4} PRGs. Vinyl chloride was also detected in

sample MGGC-GW-01 at a concentration of 48 µg/L exceeding both the 10^{-6} and 10^{-4} PRGs. Pentachlorophenol was detected in one sample (MGGC-GW-03) at a concentration of 2.3 µg/L exceeding the 10^{-6} PRG but not exceeding the 10^{-4} PRG. Chromium was detected in one sample (MGGC-GW-06) at a concentration of 160 µg/L exceeding the 10^{-6} PRG but not exceeding the 10^{-4} PRG. All other compounds were detected below their associated 10^{-6} and 10^{-4} PRGs.

5.0 CONCLUSIONS

Subsurface Soil

Analytical results for subsurface soil samples indicate the presence of arsenic above the 10^{-6} PRG in six samples. However, naturally occurring levels of arsenic in soil in North Carolina range from 3 to 12 mg/kg according to North Carolina Department of Agriculture and Consumer Services (Ref. 7). Concentrations of arsenic in the subsurface soil samples are within the background range. No further study of elevated arsenic levels are recommended at this time within the context of the Mills Gap Site investigation.

Groundwater

Groundwater analytical results indicate the presence of TCE at concentrations above the 10^{-6} and 10^{-4} PRGs for tap water for samples collected on site and off site to the southeast. Cis-1,2-DCE and vinyl chloride were also detected in one sample collected on-site at levels above their associated 10^{-6} PRG and below their associated 10^{-4} PRG. Cis-1,2-DCE and vinyl chloride are TCE breakdown products. Chromium was detected in one sample collected off site above the 10^{-6} PRG and below the 10^{-4} PRG.

Elevated levels of chromium and cyanide were detected in two samples. Laboratory discrepancies limit the value of the cyanide analysis. However given the site history, additional sampling to determine the potential presence of chromium and cyanide in groundwater is recommended. The PRPs are presently planning a groundwater assessment through the NCDENR Inactive Hazardous Sites Branch and a more complete analysis of chromium and cyanide may occur through that program.

Soil Gas Survey and Vapor Migration Pathway Study

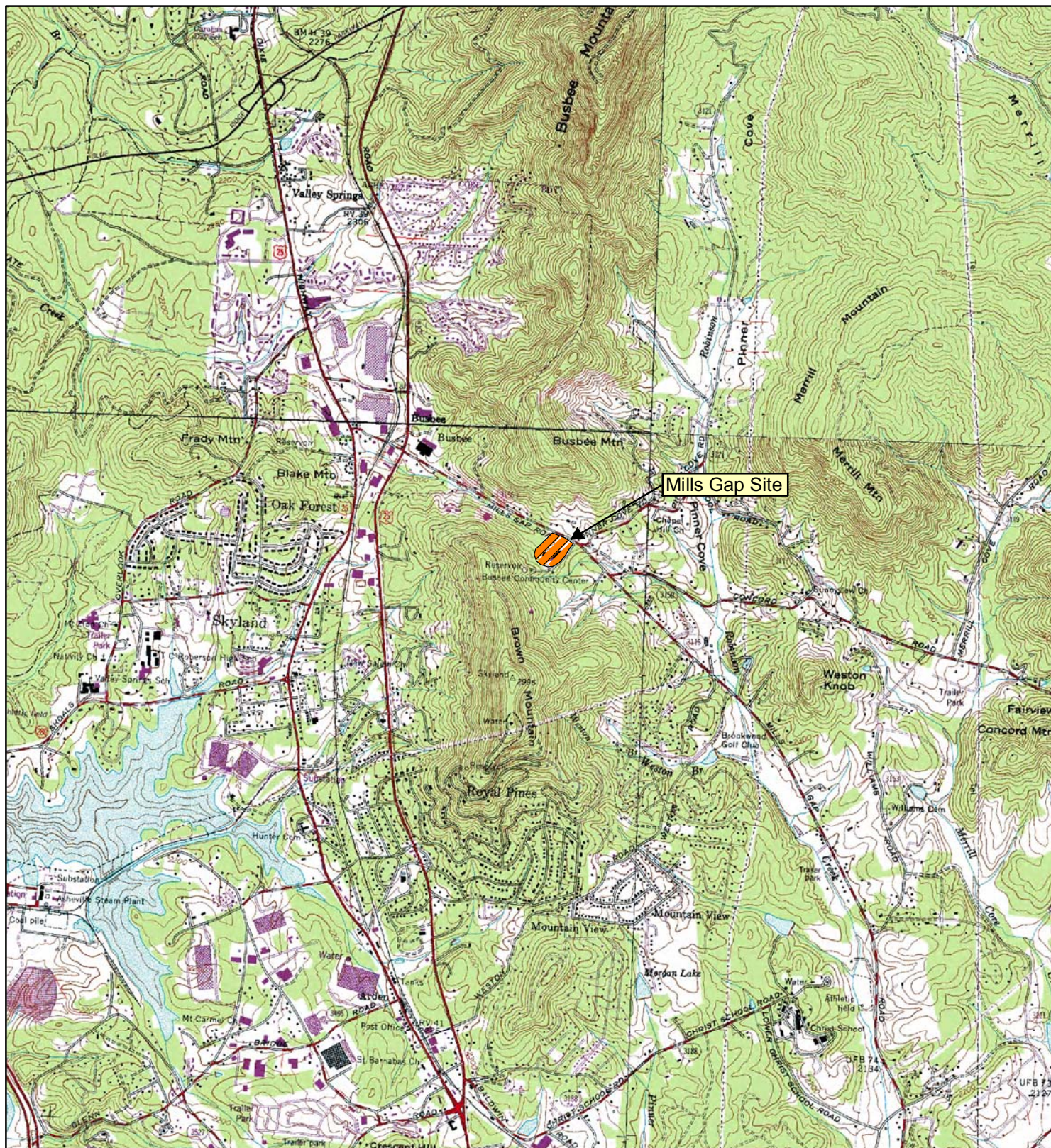
Based on the REAC soil vapor study, TCE was detected in passive air samples, all four seep samples, one sub-slab sample, three soil gas samples and the TAGA air monitoring. These results were included in this report as a means of comparison.

The Respondents under the AOC have completed a feasibility study for a removal action for the four springs on the Rice property. Removal activities at these springs may partially remove the source of ambient air TCE contamination.

REFERENCES

1. T N & Associates, Inc. Quality Assurance Project Plan (QAPP). January 2006.
2. U.S. Environmental Protection Agency (EPA), Science and Ecosystem Support Division (SESD). Region 4 Environmental Investigation Standard Operating Procedures and Quality Assurance Manual (EISOPQAM). November 2001.
3. Law Environmental, Inc. Report of Site Assessment Activities. August 1987.
4. NUS Corporation. Screening Site Inspection, Phase I. August 1989.
5. NUS Corporation. Screening Site Inspection, Phase II Final Report. February 1991.
6. EPA. Region 9 Preliminary Remediation Goals Table. Accessed online at www.epa.gov/region09/waste/sfund/prg/index.html#prgtable. October 2004.
7. North Carolina Department of Agriculture and Consumer Services. Heavy Metals in North Carolina Soils. February 2003, revised October 2005.

APPENDIX A
FIGURES
(6 pages)



SOURCE: MODIFIED FROM USGS 7.5 MINUTE
QUADRANGLES: Asheville, Oteen, Fruitland, & Skyland

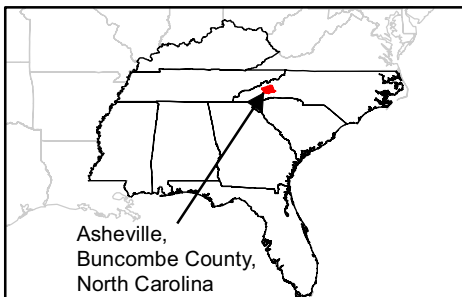
Disclaimer: This map is intended for visual orientation use only.
In no way is this map to be used for precise locational use.

Legend



Site Location

0 0.25 0.5 1 Miles

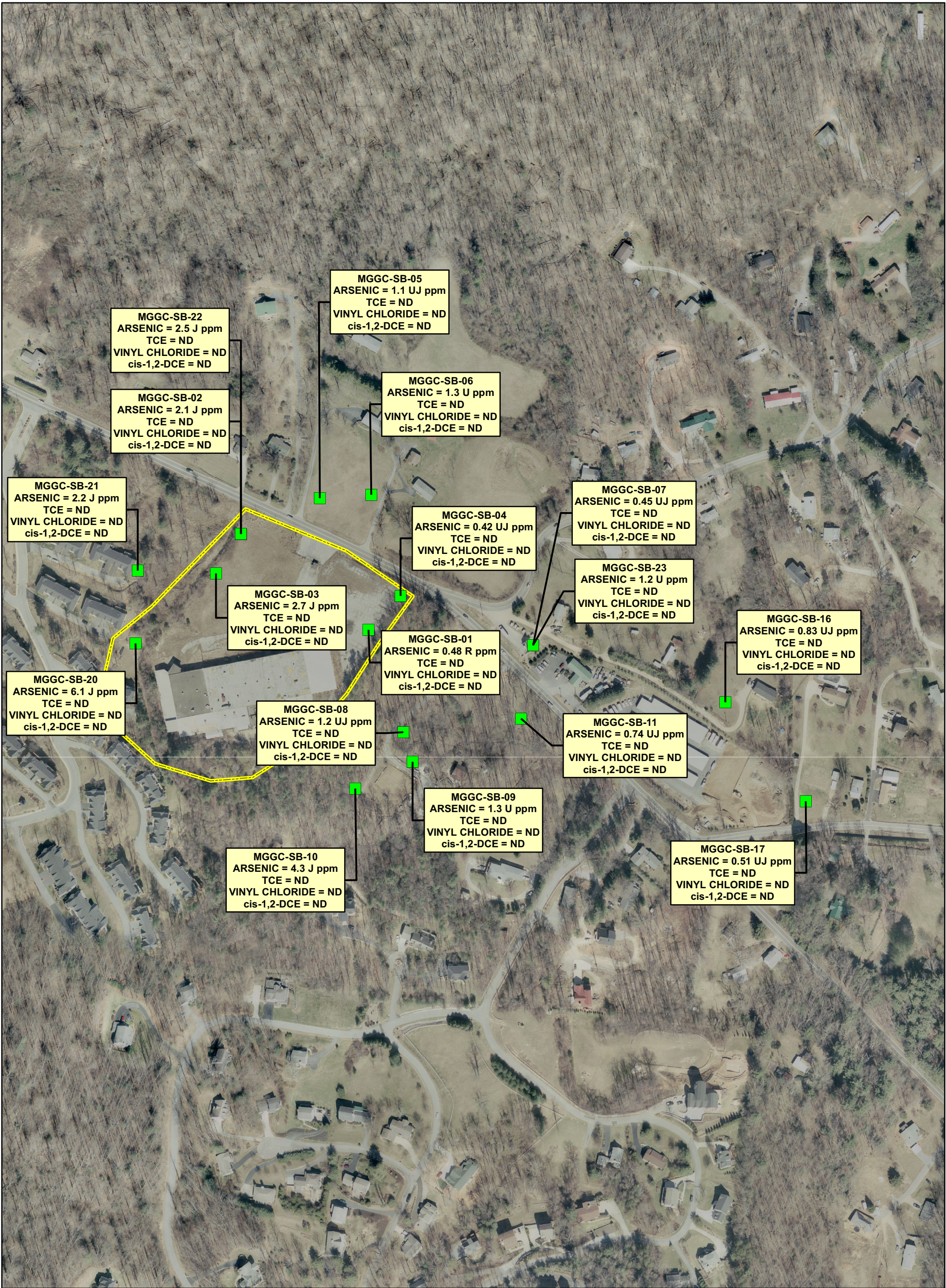


United States Environmental Protection Agency

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COUNTY, NORTH CAROLINA
TDD No. TNA-05-001-0043

FIGURE 1 TOPOGRAPHICAL MAP

TN & Associates, Inc.
& A EPA Region 4 START
In association with Shaw E&I and Aerostar



2006 Aerial Images Provided by Buncombe County GIS

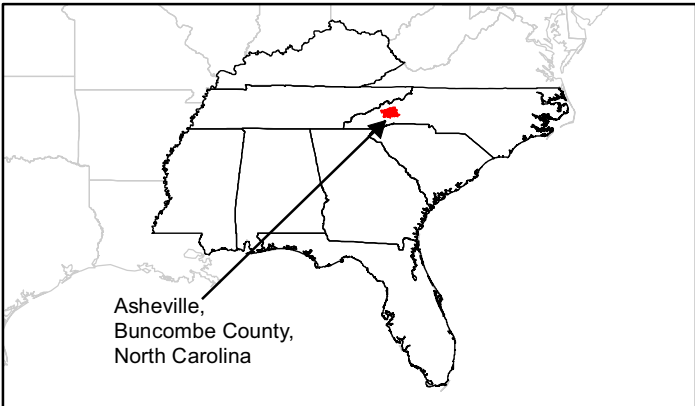
Disclaimer: This map is intended for visual orientation use only. In no way is this map to be used for precise locational use.

Legend

- Subsurface Sample Location
- Site Location

NOTE:
cis-1,2-DCE = cis-1,2-Dichloroethene
J = Estimated value
MGGC = Mills Gap groundwater contamination
ND = Not detected
ppm = Parts per million
R = Rejected data
SB = Subsurface
TCE = Trichloroethene
U = Non-Detect

0 325 650 Feet

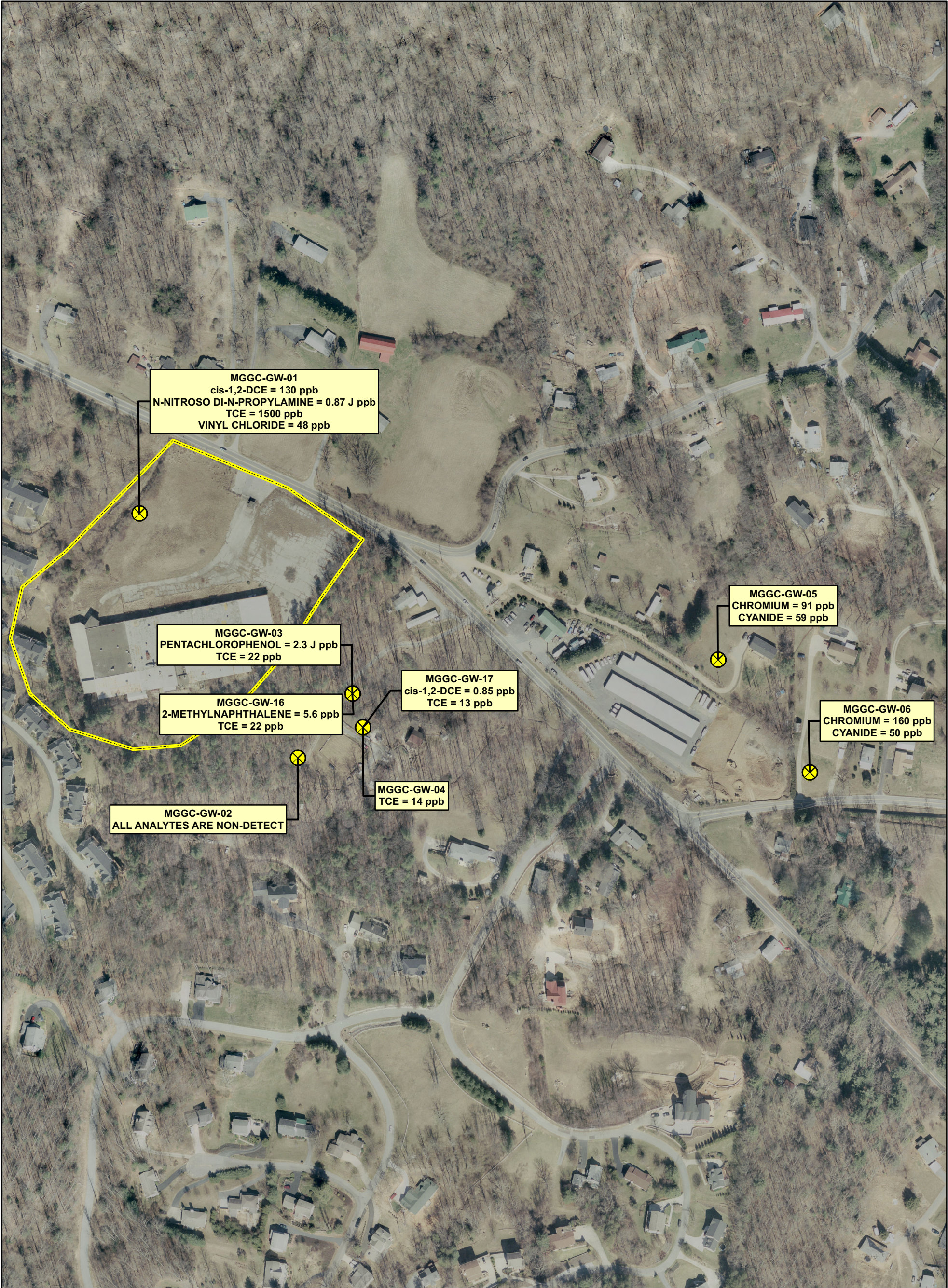


United States Environmental Protection Agency

MILLS GAP
ASHEVILLE, BUNCOMBE
COUNTY, NORTH CAROLINA
TDD No. TNA-05-001-0043

FIGURE 2 SUBSURFACE SOIL SAMPLE LOCATIONS

TN T & Associates, Inc.
SA EPA Region 4 START
in association with Shaw E&I and Aerostar



2006 Aerial Images Provided by Buncombe County GIS

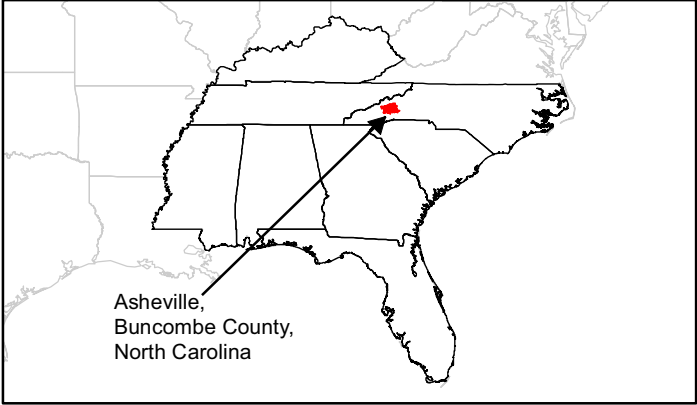
Disclaimer: This map is intended for visual orientation use only. In no way is this map to be used for precise locational use.

Legend

- Groundwater Sample
- Site Location

NOTE:
cis-1,2-DCE = cis-1,2-Dichloroethene
GW = Groundwater
J = Estimated value
MGGC = Mills Gap groundwater contamination
ppb = Parts per billion
TCE = Trichloroethene

0 200 400 Feet

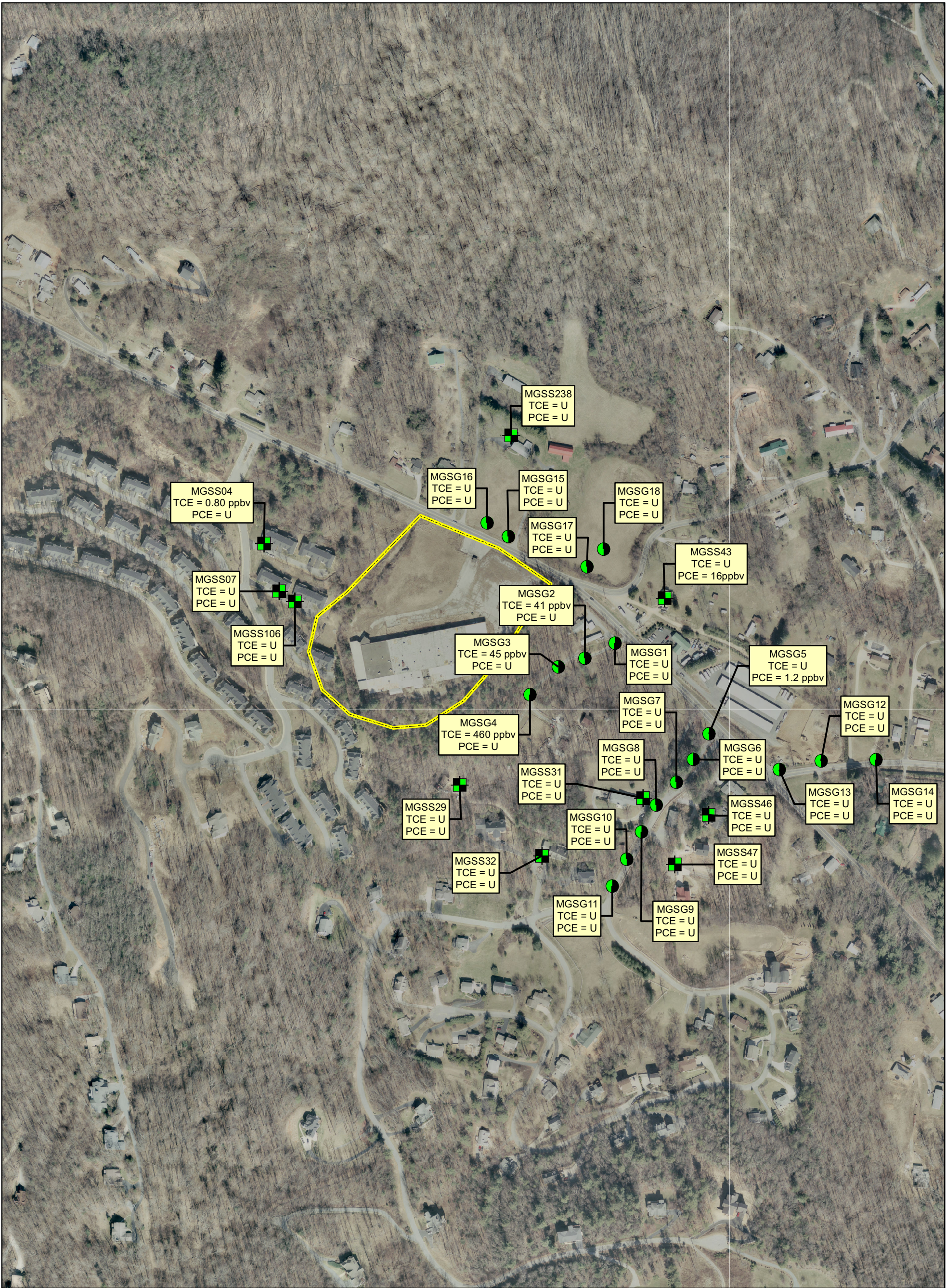


United States Environmental Protection Agency

MILLS GAP
ASHEVILLE, BUNCOMBE
COUNTY, NORTH CAROLINA
TDD No. TNA-05-001-0043

FIGURE 3
GROUNDWATER SAMPLE
LOCATIONS




TN & Associates, Inc.
EPA Region 4 START
in association with Shaw E&I and Aerostar



2006 Aerial Images Provided by Buncombe County GIS

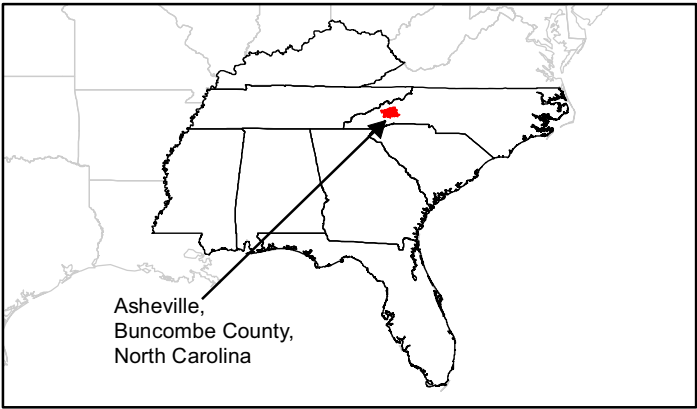
Disclaimer: This map is intended for visual orientation use only. In no way is this map to be used for precise locational use.

Legend

-  Soil Gas Sample
-  Sub-Slab Sample
-  Site Location

Notes:
U - Not detected at or above the limit of quantitation
PCE - Tetrachloroethene
TCE - Trichloroethene

0 325 650 Feet



United States Environmental Protection Agency

MILLS GAP
ASHEVILLE, BUNCOMBE
COUNTY, NORTH CAROLINA
TDD No. TNA-05-001-0043

FIGURE 4 SUB-SLAB & SOIL GAS SAMPLE LOCATIONS

TN **8A** **T N & Associates, Inc.**
EPA Region 4 START
in association with Shaw Edl and Aerostar



2006 Aerial Images Provided by Buncombe County GIS

Disclaimer: This map is intended for visual orientation use only. In no way is this map to be used for precise locational use.

Passive Air Sample Location

Seep Samples

Site Location

Notes:

U - Not detected

J- Value is estimated

Only values measured above the reporting limit have been included.

0

300

600

Feet

N

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

United States Environmental Protection Agency

MILLS GAP

ASHEVILLE, BUNCOMBE COUNTY, NORTH CAROLINA

TDD No. TNA-05-001-0043

FIGURE 5

PASSIVE AIR

SAMPLE LOCATIONS

TN TN & Associates, Inc.

EPA Region 4 START

In association with Shaw E&I and Aerostar

APPENDIX B
TABLES
(11 Pages)

TABLE 1
SOIL BORING LOCATIONS
MILLS GAP

Sample Location ID	Sample Depth (ft)	CLP Sample ID	Grab or Composite	Sample Type	Longitude	Latitude
MGGC-SB-01	11-13	D4DW7	Grab	Field Sample	-82.50557107710	35.49318706860
MGGC-SB-02	10-15	D4E18	Grab	Field Sample	-82.50676581480	35.49386860020
MGGC-SB-03	17-19	D4E24	Grab	Field Sample	-82.50698214640	35.49356881610
MGGC-SB-04	16-18	D4EC3	Grab	Field Sample	-82.50528858500	35.49344894100
MGGC-SB-05	2-4	D4EB9	Grab	Field Sample	-82.50605655700	35.49415794100
MGGC-SB-06	2-4	D4EC0	Grab	Field Sample	-82.50558998200	35.49419709800
MGGC-SB-07	10-12	D4EB3	Grab	Field Sample	-82.50406461100	35.49311558100
MGGC-SB-08	7-10	D4E29	Grab	Field Sample	-82.50521952900	35.49243363940
MGGC-SB-09	6.5-8.5	D4EB2	Grab	Field Sample	-82.50512559900	35.49221520300
MGGC-SB-10	28-30	D4DW8	Grab	Field Sample	-82.50564026100	35.49199887230
MGGC-SB-11	11-13	D4EC2	Grab	Field Sample	-82.50414932800	35.49256525800
MGGC-SB-16	8-10	D4EB6	Grab	Field Sample	-82.50229161100	35.49274146000
MGGC-SB-17	6-8	D4EB8	Grab	Field Sample	-82.50152365900	35.49202250800
MGGC-SB-20	13-15	D4E19	Grab	Field Sample	-82.50769300970	35.49302372660
MGGC-SB-21	15-17	D4E20	Grab	Field Sample	-82.50769598550	35.49356789190
MGGC-SB-22	10-15	D4E21	Grab	Field Duplicate of SB-02	-82.50676581480	35.49386860020
MGGC-SB-23	7-10	D4EB4	Grab	Field Duplicate of SB-07	-82.504064611	35.493115581

Notes:

CLP - Contract Lab Program
ID - Identification
ft - feet
MGGC - Mills Gap Groundwater Contamination
SB - Soil Boring

TABLE 2
GROUNDWATER SAMPLE LOCATIONS
MILLS GAP

Sample Location ID	CLP Sample ID	Longitude	Latitude	Comments
MGGC-GW-01	D4DS6	-82.50698214640	35.49356881610	No odor, no sheen
MGGC-GW-02	D4DS7	-82.50564026100	35.49199887230	No odor, no sheen
MGGC-GW-03	D4DS8	-82.50521952900	35.49243363940	No odor, no sheen
MGGC-GW-04	D4EC6	-82.505125599	35.492215203	No odor, no sheen
MGGC-GW-05	D4EC8	-82.502291611	35.492741460	No odor, no sheen
MGGC-GW-06	D4EC4	-82.501523659	35.492022508	No odor, no sheen
MGGC-GW-16	D4DW1	-82.50521952900	35.49243363940	Duplicate of GW-03
MGGC-GW-17	D4EC7	-82.505125599	35.492215203	Duplicate of GW-04

Notes:

GW - Groundwater sample
ID - Identification
CLP - Contract Lab Program
MGGC - Mills Gap Groundwater Contamination

TABLE 3
SUB SLAB AND SUMMA[®] CANISTER SAMPLE LOCATIONS
MILLS GAP

Sample Location ID	Longitude	Latitude
Sub Slab Samples		
MGSS04	-82.50855014340	35.49373873590
MGSS07	-82.50835330940	35.49328732280
MGSS29	-82.50615797900	35.49149545080
MGSS31	-82.50400953000	35.49143006060
MGSS32	-82.50516656990	35.49084507890
MGSS43	-82.503839	35.493352
MGSS46	-82.50323341180	35.49129240810
MGSS47	-82.50360861010	35.49080850880
MGSS106	-82.50816344350	35.49319586000
MGSS238	-82.50570139940	35.49485819630
Summa[®] Canister Samples		
MGSC01	-82.50557107710	35.49318706860
MGSC10	-82.50779314050	35.49257237530
MGSC10RE	-82.50144661500	35.49287447300
MGSC10OW	-82.50112305370	35.49208050190
MGSC12	-82.50816852020	35.49273652350
MGSC14	-82.50757691080	35.49186089960
MGSC15	-82.50777309460	35.49207567100
MGSC23	-82.50463171140	35.49312733930
MGSC25	-82.50475920430	35.49202202410
MGSC38	-82.50188547150	35.49293495750
MGSC113	-82.51045619580	35.49428307100
MGSC119	-82.51099381570	35.49445299110

Notes:

MGSS - Mills Gap Sub Slab
MGSC - Mills Gap Summa[®] Canister
ID - Identification
RE - Renter
OW - Owner

TABLE 4
WATER QUALITY DATA
MILLS GAP

Station Location ID	SWL (ft)	Total Depth (ft)	pH	Cond (μ S/m)	Turb (NTU)	Temp (°C)	Volume purged (gal)
MGGC-GW-01	23.59	35.00	4.50	8	310	15.0	6.00
MGGC-GW-02	14.82	30.00	4.60	4	480	13.5	3.25
MGGC-GW-03	1.50	9.80	4.60	3	-5	13.0	2.00
MGGC-GW-04	7.32	21.50	5.00	5	-5	13.9	1.75
MGGC-GW-05	13.37	17.50	4.86	6	-5	14.6	0.75
MGGC-GW-06	3.08	18.00	4.75	8	-5	12.4	2.00
MGGC-GW-16	1.50	9.80	4.60	3	-5	13.0	2.00
MGGC-GW-17	7.32	21.50	5.00	5	-5	13.9	1.75

Notes:

Cond (μ S/m) - Conductivity (micro Seimens per meter)
 ft - feet
 gal - gallons
 GW - Groundwater sample
 MGGC - Mills Gap Groundwater Contamination
 SWL - Static Water Level
 Temp (°C) - Temperature (degees Celsius)
 Turb (NTU) - Turbidity (Nephelometric Turbidity Unit)

TABLE 5
SUMMARY OF SUBSURFACE SOIL SAMPLE RESULTS
MILLS GAP

Sample ID	Region 9 PRG (Industrial Soil)	MGGC-SB-01	MGGC-SB-02	MGGC-SB-03	MGGC-SB-04	MGGC-SB-05
Location		MGGC-SB-01	MGGC-SB-02	MGGC-SB-03	MGGC-SB-04	MGGC-SB-05
Type		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Collection Date		12/12/2007	12/12/2007	12/12/2007	1/16/2008	1/15/2008
Matrix		Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil
Classical Nutrients (mg/kg)						
Cyanide	12,000	2.8 U	2.8 U	3.2 U	0.3 J	1.7 J
Metals, Total (mg/kg)						
Arsenic	1.6	0.48 R	2.1 J	2.7 J	0.42 UJ	1.1 UJ
Barium	67,000	54	110	130	61	43
Chromium	450	16 J	53 J	36 J	9.9	17
Lead	800	17 J	11 J	16 J	4.5	11
Selenium	5,100	0.38 R	1.1 R	1.2 R	1.5 J	3.3 J
Silver	5,100	0.14 J	1.1 U	1.3 U	0.31 J	0.76 J
SVOC (µg/kg)						
Benzo(a)anthracene	2,100	190 U	61 J	210 U	230 U	220 U
Benzo(a)pyrene	210	190 U	48 J	210 U	230 U	220 U
Benzo(b)fluoranthene	2,100	190 U	69 J	210 U	230 U	220 U
Benzo(g,h,i)perylene	NSA	190 U	51 J	210 U	230 U	220 U
Benzo(k)fluoranthene	21,000	190 U	56 J	210 U	230 U	220 U
Chrysene	210,000	190 U	70 J	210 U	230 U	220 U
Dibenzo(a,h)anthracene	210	190 U	42 J	210 U	230 U	220 U
Indeno (1,2,3-cd) pyrene	2,100	190 U	61 J	210 U	230 U	220 U
VOC (µg/kg)						
Acetone	54,000,000	9.7 U	27	10 U	9.2 UJ	10 U

Notes:

Bold and shaded - Value exceeds the Region 9 PRG for industrial soil

J - Value is estimated

MGGC - Mills Gap Groundwater Contamination

PRG - Preliminary remediation goal

R - Value is rejected

SB - Soil boring (> 12 inches bgs)

SQL - Sample quantitation limit

SVOC - Semivolatile Organic Compounds

U - Analyte was not detected above the associated SQL

mg/kg - Milligrams per kilogram

µg/kg - Micrograms per kilogram

VOC - Volatile Organic Compounds

bgs - below ground surface

> - greater than

TABLE 5
SUMMARY OF SUBSURFACE SOIL SAMPLE RESULTS
MILLS GAP

Sample ID	Region 9 PRG (Industrial Soil)	MGGC-SB-06	MGGC-SB-07	MGGC-SB-08	MGGC-SB-09	MGGC-SB-10
Location		MGGC-SB-06	MGGC-SB-07	MGGC-SB-08	MGGC-SB-09	MGGC-SB-10
Type		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Collection Date		1/15/2008	1/15/2008	12/13/2007	1/15/2008	12/13/2007
Matrix		Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil
Classical Nutrients (mg/kg)						
Cyanide	12,000	3.9	3.9	3 U	1.4 J	3 U
Metals, Total (mg/kg)						
Arsenic	1.6	1.3 U	0.45 UJ	1.2 UJ	1.3 U	4.3 J
Barium	67,000	60	110	15 J	120	210
Chromium	450	30	23	3.1 J	28	26 J
Lead	800	9.2	11	1.2 R	10	9.7 J
Selenium	5,100	3.4 J	3 J	4.2 UJ	2 J	0.61 R
Silver	5,100	0.82 J	0.71 J	1.2 U	1.3 U	1.2 U
SVOC (µg/kg)						
Benzo(a)anthracene	2,100	220 U	200 U	200 U	220 U	200 U
Benzo(a)pyrene	210	220 U	200 U	200 U	220 U	200 U
Benzo(b)fluoranthene	2,100	220 U	200 U	200 U	220 U	200 U
Benzo(g,h,i)perylene	NSA	220 U	200 U	200 U	220 U	200 U
Benzo(k)fluoranthene	21,000	220 U	200 U	200 U	220 U	200 U
Chrysene	210,000	220 U	200 U	200 U	220 U	200 U
Dibenzo(a,h)anthracene	210	220 U	200 U	200 U	220 U	200 U
Indeno (1,2,3-cd) pyrene	2,100	220 U	200 U	200 U	220 U	200 U
VOC (µg/kg)						
Acetone	54,000,000	8.4 U	12 U	8.7 U	8.9 U	8.9 U

Notes:

- Bold and shaded - Value exceeds the Region 9 PRG for industrial soil
- J - Value is estimated
- MGGC - Mills Gap Groundwater Contamination
- PRG - Preliminary remediation goal
- R - Value is rejected
- SB - Soil boring (> 12 inches bgs)
- SQL - Sample quantitation limit
- SVOC - Semivolatile Organic Compounds
- U - Analyte was not detected above the associated SQL
- mg/kg - Milligrams per kilogram
- ug/kg - Micrograms per kilogram
- VOC - Volatile Organic Compounds
- bgs - below ground surface
- > - greater than

TABLE 5
SUMMARY OF SUBSURFACE SOIL SAMPLE RESULTS
MILLS GAP

Sample ID	Region 9 PRG (Industrial Soil)	MGGC-SB-11	MGGC-SB-16	MGGC-SB-17	MGGC-SB-20	MGGC-SB-21
Location		MGGC-SB-11	MGGC-SB-16	MGGC-SB-17	MGGC-SB-20	MGGC-SB-21
Type		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Collection Date		1/16/2008	1/15/2008	1/15/2008	12/13/2007	12/13/2007
Matrix		Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil
Classical Nutrients (mg/kg)						
Cyanide	12,000	1.3 J	0.18 UJ	2.9 J	3.2 U	3.5 U
Metals, Total (mg/kg)						
Arsenic	1.6	0.74 UJ	0.83 UJ	0.51 UJ	6.1 J	2.2 J
Barium	67,000	60	18 J	140	170	110
Chromium	450	26	12	19	46 J	20 J
Lead	800	4.1	7.3	4.6	13 J	12 J
Selenium	5,100	1.9 J	1.5 J	4.7 U	2 R	0.68 J
Silver	5,100	0.42 J	0.2 J	0.36 J	1.3 U	1.4 U
SVOC (µg/kg)						
Benzo(a)anthracene	2,100	220 UJ	210 U	240 UJ	210 U	240 U
Benzo(a)pyrene	210	220 U	210 U	240 U	210 U	240 U
Benzo(b)fluoranthene	2,100	220 U	210 U	240 U	210 U	240 U
Benzo(g,h,i)perylene	NSA	220 U	210 U	240 U	210 U	240 U
Benzo(k)fluoranthene	21,000	220 U	210 U	240 U	210 U	240 U
Chrysene	210,000	220 UJ	210 U	240 UJ	210 U	240 U
Dibenzo(a,h)anthracene	210	220 U	210 U	240 U	210 U	240 U
Indeno (1,2,3-cd) pyrene	2,100	220 U	210 U	240 U	210 U	240 U
VOC (µg/kg)						
Acetone	54,000,000	11 UJ	9.4 U	11 U	10 U	10 U

Notes:

Bold and shaded - Value exceeds the Region 9 PRG for industrial soil
J - Value is estimated
MGGC - Mills Gap Groundwater Contamination
PRG - Preliminary remediation goal
R - Value is rejected
SB - Soil boring (> 12 inches bgs)
SQL - Sample quantitation limit
SVOC - Semivolatile Organic Compounds
U - Analyte was not detected above the associated SQL
mg/kg - Milligrams per kilogram
ug/kg - Micrograms per kilogram
VOC - Volatile Organic Compounds
bgs - below ground surface
> - greater than

TABLE 5
SUMMARY OF SUBSURFACE SOIL SAMPLE RESULTS
MILLS GAP

Sample ID	Region 9 PRG (Industrial Soil)	MGGC-SB-22	MGGC-SB-23
Location		MGGC-SB-02	MGGC-SB-07
Type		Field Duplicate	Field Duplicate
Collection Date		12/12/2007	1/15/2008
Matrix		Subsurface Soil	Subsurface Soil
Classical Nutrients (mg/kg)			
Cyanide	12,000	3 U	3.5
Metals, Total (mg/kg)			
Arsenic	1.6	2.5 J	1.2 U
Barium	67,000	120	90
Chromium	450	55	21
Lead	800	12 J	8.2
Selenium	5,100	1.6 J	1.9 J
Silver	5,100	1.2 U	0.58 J
SVOC (µg/kg)			
Benzo(a)anthracene	2,100	200 U	200 UJ
Benzo(a)pyrene	210	200 U	200 U
Benzo(b)fluoranthene	2,100	200 U	200 U
Benzo(g,h,i)perylene	NSA	200 U	200 U
Benzo(k)fluoranthene	21,000	200 U	200 U
Chrysene	210,000	200 U	200 UJ
Dibenzo(a,h)anthracene	210	200 U	200 U
Indeno (1,2,3-cd) pyrene	2,100	200 U	200 U
VOC (µg/kg)			
Acetone	54,000,000	12 U	11 U

Notes:

Bold and shaded - Value exceeds the Region 9 PRG for industrial soil

J - Value is estimated

MGGC - Mills Gap Groundwater Contamination

PRG - Preliminary remediation goal

R - Value is rejected

SB - Soil boring (> 12 inches bgs)

SQL - Sample quantitation limit

SVOC - Semivolatile Organic Compounds

U - Analyte was not detected above the associated SQL

mg/kg - Milligrams per kilogram

ug/kg - Micrograms per kilogram

VOC - Volatile Organic Compounds

bgs - below ground surface

> - greater than

TABLE 6
SUMMARY OF GROUNDWATER SAMPLE RESULTS
MILLS GAP

Sample ID	NCAC Title 15A	Region 9	Region 9	MGGC-GW-01	MGGC-GW-02	MGGC-GW-03	MGGC-GW-04	MGGC-GW-05
Location	NCDENR SC 2L	PRG	PRG	MGGC-SB-03	MGGC-SB-10	MGGC-SB-08	MGGC-SB-09	MGGC-SB-16
Type	Groundwater	(Tap Water)	(Tap Water)	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Collection Date	Standard	10 ⁻⁶	10 ⁻⁴	12/13/2007	12/14/2007	12/14/2007	1/16/2008	1/16/2008
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Classical Nutrient (µg/L)								
Cyanide	70	730	73,000	10 U	10 U	10 U	8.5 J	59
Metals, Total (µg/L)								
Barium	2000	2600	260,000	72 J	37 J	34 J	37 J	550 J
Chromium ¹	50	110	11,000	11 U	11 U	1.9 J	7.1 J	91
Lead	15	NSA	NSA	11 U	11 U	2.2 R	10 U	35
SVOC (µg/L)								
(3-and/or 4-)Methylphenol	3.5	180	18,000	0.66 J	5 U	5 U	5 U	5 U
2-Methylnaphthalene	14	NSA	NSA	5 U	5 U	7 J	5 U	5 U
n-Nitroso di-n-Propylamine	NSA	0.0096	0.96	0.87 J	5 U	5 U	5 U	5 U
Pentachlorophenol	0.29	0.56	56	10 U	10 U	2.3 J	10 U	10 U
Phenol	300	11,000	1,100,000	0.59 J	5 U	5 U	5 U	5 U
VOC (µg/L)								
Benzene	1	0.35	35	25 U	5 U	5 U	0.5 U	0.06 J
cis-1,2-Dichloroethene	70	61	6100	130	5 U	5 U	0.96	0.5 U
Toluene	1000	720	72,000	25 U	5 U	5 U	0.5 U	0.09 J
Trichloroethene (TCE)	2.8	0.028	2.8	1500*	5 U	22*	14*	0.5 U
Vinyl chloride	0.015	0.02	2	48*	5 U	5 U	0.5 U	0.5 U

Notes:

Bold and shaded - Value exceeds the 10-6 PRG for tap water

* Value exceeds the 10-6 and 10-4 PRGs for tap water

¹ - PRG is for Chromium VI

GW - Groundwater sample

J - Value is estimated

MGGC - Mills Gap Groundwater Contamination

NCAC - North Carolina Administrative Code

NCDENR - North Carolina Department of Environment, Health, and Natural Resources

SC 2L - Subchapter 2L

NSA - Standard not established

PRG - Preliminary Remediation Goal

R - Value is rejected

SB - Soil boring

SQL - Sample quantitation limit

SVOC - Semivolatile Organic Compounds

U - Analyte was not detected above the associated SQL

µg/L - Micrograms per liter

VOC - Volatile Organic Compounds

TABLE 6
SUMMARY OF GROUNDWATER SAMPLE RESULTS
MILLS GAP

Sample ID	NCAC Title 15A NCDENR SC 2L Groundwater Standard	Region 9 PRG (Tap Water) 10 ⁻⁶	Region 9 PRG (Tap Water) 10 ⁻⁴	MGGC-GW-06	MGGC-GW-16	MGGC-GW-17
Location				MGGC-SB-17	MGGC-SB-08	MGGC-SB-09
Type				Field Sample	Field Duplicate	Field Duplicate
Collection Date				1/16/2008	12/14/2007	1/16/2008
Matrix				Groundwater	Groundwater	Groundwater
Classical Nutrient (µg/L)						
Cyanide	70	730	73,000	50	10 U	9.5 J
Metals, Total (µg/L)						
Barium	2000	2600	260,000	1300 J	38 J	38 J
Chromium ¹	50	110	11,000	160	2.4 J	6.5 J
Lead	15	NSA	NSA	71	11 U	10 U
SVOC (µg/L)						
(3-and/or 4-)Methylphenol	3.5	180	18,000	5 U	5 U	5 U
2-Methylnaphthalene	14	NSA	NSA	5 U	5.6	5 U
n-Nitroso di-n-Propylamine	NSA	0.0096	0.96	5 U	5 U	5 U
Pentachlorophenol	0.29	0.56	56	10 U	10 U	10 U
Phenol	300	11000	1,100,000	5 U	5 U	5 U
VOC (µg/L)						
Benzene	1	0.35	35	0.5 U	5 U	0.5 U
cis-1,2-Dichloroethene	70	61	6100	0.5 U	5 U	0.85
Toluene	1000	720	72,000	0.5 U	5 U	0.5 U
Trichloroethene (TCE)	2.8	0.028	2.8	0.5 U	22*	13*
Vinyl chloride	0.015	0.02	2	0.5 U	5 U	0.5 U

Notes:

Bold and shaded - Value exceeds the PRG for tap water

* Value exceeds the 10-6 and 10-4 PRGs for tap water

¹ - PRG is for Chromium VI

GW - Groundwater sample

J - Value is estimated

MGGC - Mills Gap Groundwater Contamination

NCAC - North Carolina Administrative Code

NCDENR - North Carolina Department of Environment, Health, and Natural Resources

SC 2L - Subchapter 2L

NSA - Standard not established

PRG - Preliminary Remediation Goal

R - Value is rejected

SB - Soil boring

SQL - Sample quantitation limit

SVOC - Semivolatile Organic Compounds

U - Analyte was not detected above the associated SQL

µg/L - Micrograms per liter

VOC - Volatile Organic Compounds

APPENDIX C
LOGBOOK NOTES
(40 Pages)

"Rite in the Rain"
ALL-WEATHER WRITING PAPER



ALL-WEATHER
ENVIRONMENTAL FIELD BOOK

Name Ryan Stubbs
TN+ Associates, Inc.
Address 1220 Kennestone Circle, Suite D
Marietta, GA 30066
Phone (678) 355-5550

Project Mills Gap Road Site
Asheville, NC
EPA OSC is David Dorian

This book is printed on "Rite in the Rain" All-Weather Writing Paper - A unique paper created to shed water and enhance the written image. It is widely used throughout the world for recording critical field data in all kinds of weather. For best results, use a pencil or an all-weather pen.

Specifications for this book

Page Pattern		Cover Options	
Left Page	Right Page	Polydura Cover	Faunkoid Cover
Columnar	1/4" Grid	Item No. 550	Item No. 550F

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PAGE

REFERENCE

DATE

"Well volume
= .041

ft in column

These log book notes do not include pages 2 through 27.
Pages 2 through 27 were included with the Potable Well Draft
Report dated February 14, 2008.

Reference Page Index

147	Error codes, Hazardous classifications, Chemicals
148	Sampling guidelines (liquids)
149	Sampling guidelines (solids)
150	Approximate Volume of Water in Casing or Well (for water logging Well)
151	PVC Pipe casing tables
152	Soil Classification
153	Soil Classification
154	Conversions (Length, Weight, Volume, Temperature)
155	Conversions (Concentrations, Volume, Weight, Length, Volume, Area, Solidity)
156	Maximum Concentration of Contaminants for the Use of Groundwater

Location Mills Gap

Date 11/30/67

Project / Client

Weather: 30°F + clear @ 0730

1 0830 Demobizing from Asheville, NC
to Marietta, GA.1330 Arrived back at the office
in Marietta*R. J. [Signature]*

Location Mills Gap

Date 12/3/67

Project / Client

Mobilized to Asheville, NC

1215 Left Marietta, GA

1545 Arrived in Fletcher, NC

R. J. [Signature]

Weather: 25°F, partly cloud & windy

- 0910 R. Stubbs spoke with David Dorian, he is enroute to the hotel, he is just north of Greenville, SC. David needs me to go buy file storage & manila folders.
- 0915 R. Stubbs drove to Office Max purchased file folder storage & manila folders.
- 0950 Returned to the hotel & printed off list of soil/vapor sampling locations.
- 1020 D. Dorian arrived at the hotel in Fletcher, NC.
- 1030 Went over the access agreement with D. Dorian.
- 1140 R. Stubbs & D. Dorian left hotel.
- 1200 Arrived on site & went with David to the Rice Property. at 273 Mills Gap Road. Spoke to Mr. & Mrs. Rice about the fencing around the spring on their property.

Access Agreements for vapor sampling

David went over access agreement with Mrs. Doris Rice for the vapor sampling. Mr. Rice's first name is Lawrence. The mobile homes are 261 & 261A Mills Gap Road. David wants to do vapor sampling at one of the mobile homes. Terry Rice owns 261 & 261A Mills Gap Road per Lawrence Rice Sr. 275 & 277 Mills Gap Road. 275 M.G. Road is where Terry Rice ~~leave~~ lives. Mrs. Doris Rice stated that their water supply has a PVC pipe that crosses the creek. Need to contact the ~~contact~~ county regarding the pipe. David then went over access for the soil boring. We left an access agreement for Terry Rice for 261 & 261A Mills Gap Road. 271

1240 ²⁷¹ 261A Mills Gap Rd. has a walk in space under the mobile home. Logged GPS data for 271 & 261 Mills Gap Road.

Mills Gap

Date 11/4/07

Project / Client

Access agreements

1300 Lunch

1355 Arrived at 102 Dutchmen in South Side Village & cancelled 106 Nodding Lane. Glen Orson lives at 102 Dutchmen & is the President of South Side Village. Mr. Orson signed the access agreement for the soil borings.

1410 Arrived at 5 Trotters Circle. Richard Fricur is the property owner and approves access to his property for vapor sampling.

1445 Arrived at 28 Clove Bud Court & spoke to Walt Dokkens about access for soil & vapor testing. Mr. Dokkens approves access to his property.

1455 Obtained GPS data at 10 Concord Road. Labeled on the GPS as 10A Concord Road & 10 Concord Road.

location Mills Gap

11/4/07

33

Project / Client

Access agreements

1455 Two houses at 10 Concord Road. The house fronting Concord Road is labeled as 10 Concord Road & the house set back is labeled as 10A Concord Road. This is how I labeled the GPS locations.

1505 Arrived at Lori Doerr's at 104 Nodding Lane to obtain access for vapor sampling. She has a crawl space with dirt floor & she doesn't store anything in her crawlspace. She authorizes access for vapor sampling. Logged GPS data at this location.

1600 Arrived at 10 Concord Road the Robinson's property. Spoke to Mr. Mack Robinson & he has a slab in the garage. The other house fronting on Concord has a crawlspace. Mr. Robinson approved access.

Location Mills Gap

Date 11/4/07

Project / Client

Access agreements

1615 Arrived at 270 Mills Gap Road (South Park Storage). Spoke to Mr. Ralph Connors & he said no to drilling through his concrete for the vapor sampling due to rebar being in the concrete. He agreed to a soil sample. Ralph said the gravel area would be best for the soil boring. GPS location logged in the gravel area.

1635 Arrived at the Busbee Community & went to 16 Busbee KnollRD. There is a slab in the small basement. This is where the preferred location for the vapor sampling. Judy Price authorized access to this property. Judy Price is also signing an access agreement for 25 Busbee Knoll Road. 25 Busbee Knoll has a crawlspace per Judy.

Location Mills Gap

Date 11/4/07

Project / Client

Access agreements

1730 Regrouped & updated spreadsheet. Entered information regarding if access was granted, phone numbers, type of basement & owner name.

1930 David dropped me off at the site so I could get my rental car & return to the hotel.

[Handwritten signature]

Access agreements for soil + vapor

Weather: 30°F + cloudy @ 0830

- 0830 Ryan Stubbs met David Dorian in the hotel lobby to discuss the game plan for the day. David wants latitude + longitude entered into the spreadsheet. R. Stubbs spoke to Jon Crain about getting the lat. + long. data + he said he would email him the files + he would email back to lat. + long. David gave Ryan a printer to print off the spreadsheets for the soil/vapor study.
- 1000 Attempted three times to print with David's printer + was unable.
- 1030 David said he wants to have a conference call with Greg or Jorge + then go log GPS data for soil boring locations.

R. Stubbs

Access agreements

- 1045 Conference call with Ryan, David + Greg. 20 soil samples through CLP next week. 20 soil + up to 20 groundwater samples. Analysis VOCs, SVOCs, target analyte metals + total cyanide. We need a second person on site for the sampling next week. Greg will work on the second person. Turnaround time for the samples will be standard 21 days.
- 1115 Ryan spoke with Greg again concerning analysis of the groundwater regarding the volume of water needed for SVOCs, metals + cyanide. Ryan told David that we recommend just sampling for VOCs via groundwater at the soil borings.
- 1245 Left Judy Rice a message pertaining to her basement type at 25 Busbee Knoll Road.
- 1200 Lunch

Mills Gap

12/5/07

Access agreements

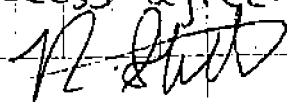
- 1300 Arrived at the site with David. Going to log some GPS locations for soil borings.
- 1310 Took GPS for SB-1 in parking area on-site.
Lat. = 35.49387386° N
Long. = -82.50619456° W
- 1321 Logged SB-2 in parking area on-site.
Lat. = 35.4937606° N
Long. = -82.50591670° W
- SB-3 + SB-4 right off ^{way}, need permission from county.
 - SB-7 need permission from Hidden Valley.
 - SB-8 need permission from Hidden Valley.
- 1345 - SB-9 at the Busbee Community Center + need permission from the county.
- 1415 Arrived at ~~X~~² Clowe Bud Ct. Agreed to property, access for soil + vapor sampling. Logged as SB-10 on GPS. Mr. Adam Worth-Frady signed the access agreement.

Mills Gap

12/5/07

Access agreements

- 1445 Confirmed with Allen Price, Judy Price's son that 25 Busbee Knoll Road has a full basement with slab.
- 1500 Updated data in spreadsheet. Inserted latitude + longitude data for soil boring locations. Put together a list of lats. + longs. to email to the Buncombe County for right of way access!
- 1615 Back at hotel and taking a break.
- 1740 David just tasked Ryan with putting known info. on access agreements for Southside Villages.
- 1820 Finished prepping access agreements for Southside Village.
- 1825 Driving to the Southside Village subdivision to get access agreements signed.



Location Mills Gap

Date 12/5/07

Project / Client

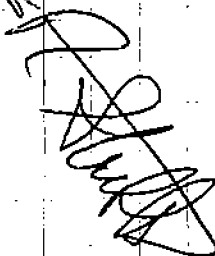
- 1840 Arrived at the Southside Village.
- 1850 Arrived at 104 Jasmine Lane & had Mrs. Hogan sign the access agreement. She has a full basement with slab.
- 1915 Arrived at 108 Jasmine Lane & spoke to Mr. Peter Waldvurger. He approved access for the vapor study. He has a slab in his basement. He performs furniture refinishing in his basement. VOCs could be present in his basement due to his activities.
- 2000 Arrived 108 Nodding Lane & spoke to Dawn Powell. She approves access, she has a dirt crawlspace & can be accessed inside the house & from the outside. She will be gone most of next week, but Ralph will be there. Call Dawn's cell & she will call Ralph to let

Location Mills Gap

Date 12/5/07

Project / Client

- 2000 him know we are coming to sample
- 2030 Finished for the night.



Location Mills Gap

Date 12/6/07

Project / Client

Access agreements for soil/vapor study

0815 Met with David Dorian + Sherryl Carbonara in the hotel lobby to discuss game plan. Sherryl + Ryan have to go back by 108 Jasmine Lane Mr. Waldevurger's to let him know that we can't take a vapor sample at his home because of his varnishes.

② Try to get access at 208 Mills Gap Road for soil + vapor samples.

③ Possibly get access at 206 Mills Gap Road for soil.

④ Get a vapor sample in Hidden Valley.

Checklist from David Dorian

- ① 2 more vapor samples in Southside Village
- ② 1 access agreement for Hidden Valley for 1 soil.
- ③ 208 Mills Gap access for 1 vapor + 2 soil.
- ④ 206 Mills Gap access for 1 soil.

Location Mills Gap

Date 12/6/07

Project / Client

Access agreements

- Find out if we can limit to 1 or 2 metals if that will save money (Cadmium + Chromium).
- Confirmed with David Dorian
 - 20 soil samples for full scan
 - 15 groundwater samples for full scan. Collect VOCs first + if water allows collect for Metals, cyanide + SVOCs.

0900 Ryan emailed Greg regarding soil + groundwater samples for next week.

0945 Ryan spoke to Greg about soil + groundwater samples.

1000 Ryan made a reservation at the Fairfield Inn in Fletcher for Michael Thompson.

1030 Arrived at 503 Saddleback Ct. in Hidden Valley Farms where Sherryl Carbonara was getting access for 2 soil borings. I informed Edward Rupper (V.P. of Hidden Valley) where the proposed soil boring locations were.

Mills Gap

12/6/07

Project / Client

Access agreements

- 1100 Arrived at Southside Village to get access for 2 more vapor samples.
- 1105 Arrived at 108 Petunia Lane (Southside Village). Rang the doorbell and received no response.
- 1110 Arrived at 112 Petunia Lane. Rang the doorbell + received no response.
- 1115 Logged a GPS point at 108 Nodding lane for a vapor sample.
- 1120 Logged a GPS point at 104 Jasmine Lane for a vapor sample.
- 1122 Logged a GPS point at 108 Jasmine Lane for a vapor sample.
- 1130 Talked to Sherryl C. she is going to meet me at Southside Village so we can speak to Mr. Waldvurger at 108 Jasmine Lane about the vapor sampling.

Mills Gap

12/6/07

Project / Client

Access agreements

- 1140 Sherryl C. + Ryan S. spoke to Mr. Waldvurger at 108 Jasmine Lane + informed him that taking a sample (vapor) could result in a false positive due to his refinishing he performs in the basement. Mr. Waldvurger still allows access if we decide otherwise.
- 1155 Ryan S. ~~knocked~~ rang the doorbell at 108 Petunia Lane again with no answer. Sherryl wrote a note that we left with the ^{RS} access agreement for vapor ^{RS} sampling in the door jam.
- 1200 We did the same thing at 112 Petunia Lane, Ryan rang the doorbell again + no response + then left the note in the doorjam.
- 1230 Located the monitor well at the Rice property. It is a 1" well with no well tag.
- 1245 Demobilized back to Marietta, GA.
- 1700 Arrived back in Marietta, GA.

Location Mills Gap

Date 12/10/07

Project / Client

START 3 EPA Region 4

- 0800 START Stubbs + Thompson load equipment + supplies into rental vehicles.
- 0900 START Stubbs, Krebs + Warrington Finalizing SAP.
- 1130 Start Stubbs + Thompson mobilize to site in Asheville, NC departing office in Marietta, GA.
- 1500 START Stubbs arrived at site.
- 1510 START Stubbs spoke to David Dorian, he wants Stubbs to go to 108 + 112 Petunia to get access agreement signed.
- 1545 START Stubbs obtained access for 108 + 112 Petunia. Both locations have a walk in dirt floor crawlspace.
- 1610 START Stubbs, David Dorian, Gary (EPA), 3 Lockheed-Martin personnel. We all arrived at 5 Trotters Circle. A port was drilled in the basement to take a teller bag sample.

Location Mills Gap

Date 12/10/07

Project / Client

Drilling + installing vapor sampling ports

- 1640 Arrived at 277 Mills Gap (Larry Rice Jr.) + drilled a port in basement/garage for a teller sample bag.
- 1700 Arrived at 273 Mills Gap (Dorris + Lawrence Rice) to drill + install a port in the basement slab.
- 1720 Arrived at 112 Petunia Lane, and drilled + installed a sampling port for a teller bag. We decided not to install a port here as the slab has a void under it. A summa canister will be placed in the crawlspace.
- 1755 Arrived at 16 Busbee Knoll Road + drilled + installed a port in the basement.
- 1810 Arrived at 25 Busbee Knoll Road (July Price's) to drill + install a port in her basement.
- 1830 Arrived at 102 Silk Tree Lane + drilled + installed a sampling port in the basement.

Mills Gap

12/10/07

Photo log

- #1 - View of drilling port at
5 Trotters Circle.
- #2 - View of drilling port at
273 Mills Gap Road.
- #3 View of drilling port at
16 Busbee Knoll Road.
- #4 View of drilled port at
25 Busbee Knoll Road.
- #5 View of drilling sampling
port in the basement at
102 Silk Tree Lane.

[Handwritten signature]

Mills Gap

12/10/07

1900 Back on-site & wrapping
up for tonight.

[Handwritten signature]

Location Mills Gap

Date 12/11/07

Project / Client START3 EPA Region 4

Weather: 41°F + partly cloudy @ 0700

0715 START Ryan Stubbs, Michael Thompson + Karen Campbell on-site awaiting David Dorian to arrive.

0730 David Dorian on-site. We headed directly to 102

MGSS04 Silk Tree Lane (The Hudson's) to collect the tedlar bag for the vapor study. David told Stubbs to update the master spreadsheet for the vapor study. Danielle McCall and Ken Woodruff of Lockheed Martin collecting tedlar bag sample. Having problems drawing sample into the tedlar bag. They had to switch vacuum boxes + then successfully collected the sample at 0805.

0815 START Stubbs + ^{PREAC} Lockheed Martin arrived at 5 Trotters Circle to collect a tedlar bag sample. MGSS-32 is the sample number Lockheed Martin is using.

Mills Gap

Date 12/11/07

Project / Client

Photo log

- #6 - View of collecting a tedlar bag sample for the vapor study at 102 Silk Tree Lane.
- #7 - View of collected a tedlar bag sample at 5 Trotters Circle.
- #8 - View of vacuum box + air pump while taking ~~an~~ ambient air sample at 5 Trotters Circle.
- #9 - View of air sample collection at 25 Burbex Knoll Road.
- #10 - View of air sample collection at 273 Mills Gap Road.
- #11 - View of TOGA Bus + crew collecting an ambient air sample on Hibiscus Lane.
- #12 - View of the Summa canister placed in the basement at 113 Hibiscus Lane.

R. Stubbs

Mills Gap

12/11/07

Project / Client

Air sample collection for vapor study

0830 Tedlar bag sample collected at 5 Trotters Circle & sealed the sampling port when finished. Danielle of Lockheed said she wants to collect an ambient air sample outside at this location as well. Sample intake tube held at breathing zone for the ambient air sample.

0850 Arrived at 16 Busbee Knoll Road to collect a tedlar bag air sample. MGSS 46 is the sample ID. Sample collected & port sealed.

0900 Attempted to collect sample at 25 Busbee Knoll Road & no answer at door.

0910 Back at the site regrouping. START Stubbs & Thompson teaming up with Lockheed Martin to continue collecting Tedlar bag air samples. START Campbell teaming up with Gary (EPA Reg. 5) to drill more ports.

Location Mills Gap

Date 12/11/07 53

Project / Client

Vapor study continued

0930 Susan Kelly of Mactec, Ken & Danielle of Lockheed, START Stubbs & Thompson all arrived at 25 Busbee Knoll Road to collect a Tedlar bag air sample. MGSS 47 is the sample ID. Danielle stated they use new tubing for each sample.

0945 START Stubbs & Thompson & Danielle & Ken of Lockheed arrived at 273 Mills Gap (Doris & Lawrence Rice's) to collect a Tedlar bag air sample. MGSS 31 is the sample ID.

1000 START Stubbs & Thompson & Danielle & Ken of Lockheed at 277 Mills Gap Road (Larry Rice Jr.) & collected a ~~Tedlar bag air sample~~. Unable to collect sample due to tight soil or the tubing & will have to return to try again later.

Date 12/11/07

Project / Client

Vapor study continued

1015 START Stubbs + Thompson back on site. Stubbs updating vapor study spreadsheet.

1100 START Stubbs + Thompson, Danielle + Ken of Lockheed and Evan of Altamont at 277 Mills Gap Road (Larry Rice Tr's) to make a second attempt at collecting an air sample via Tedlar bag. Ken used a rod to clear the port.

1120 START Stubbs + Thompson arrived at 6 Bud Clove Court (Mr. Frady's) to set up a time to take a air sample. He was not home.

1300 On-site
 (Kathy Butler (828) 684-9530
 Wesley Grain (Developer) 240
 Mills Gap Road
 → Call her for 238 Mills
 Gap Road (full basement)

W. Stubbs

Date 12/11/07

Project / Client

Vapor study continued

1330 Stubbs called Mrs. Churchill at 113 Hibiscus. Spoke to Mr. Churchill + he will be home at 4 pm.

1400 START Thompson off-site demobilizing back to Marietta, GA.

1405 START Stubbs + Thompson + TOGA bus crew getting set up at 104 + 108 Nodding Lane to do background sampling in the crawlspaces + placing of Summa canisters. Performing an ambient air sample outside 108 Nodding Lane as the hose on the TOGA will not reach into the crawlspace.

1505 TOGA crew started the background air sample on the crawlspace at 104 Nodding Lane + was found clear.

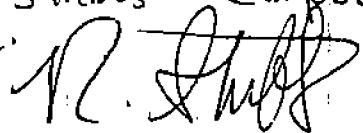
1535 TOGA crew moving to 119 Hibiscus lane to take a background

Location Mills Gap

Date 12/11/07

Project / Client

- 1535 Sample in the crawlspace before placing a Summa canister.
- 1540 TOGA bus collecting an ambient air sample outside 119 Hibiscus Lane.
- 1620 TOGA bus collecting a background air sample in the crawlspace at 119 Hibiscus Lane.
- 1628 Summa canister placed at 119 Hibiscus Lane.
- 1650 TOGA bus moving to 113 Hibiscus Lane (Mr. Churchill's) Collecting an ambient air sample & a background air sample prior to placing the ^{Summa} canister.
- 1707 Started a Summa canister at 113 Hibiscus Lane.
- 1741 Started a Summa canister at 108 Petunia.
- 1800 START Stubbs & Campbell finished.



Location Mills

Date 12/12/07

Project / Client

Weather 45°F + clear @ 0700

- 0715 START Stubbs, Campbell & Babu arrived on-site. We are going continue with oversight with REAC in the air sampling for the vapor study.
- 0745 START Stubbs & David Dorian scoped out 22 Pinners Cove for a possible air sampling location.
- 0820 START Stubbs spoke to David Dorian & Stubbs needs to coordinate with Greg Powell of ERT for soil borings. Geoprobe arrived on-site.
- 0840 Geoprobe setting up inside fenced area on-site to begin soil borings MGSB-01
- 0910 Calibrating TVA 1000, we have no cal. gas. ~~PID~~ RS
- 0940 START Stubbs & Babu scanning coils with TVA 1000. Background PID with 120 ppm + FID 0.40 ppm at MGSB-01.

Location Mills Gap

Date 12/12/07

Project / Client

Photo log

- #13 View of drilling in the basement slab for port installation at 238 Mills Gap Road.
- #14 View of the TOGA bus on-site.



Location Mills Gap

Date 12/12/07

Project / Client

Soil borings

MGSB-01

0'-5' PID = 120 ppm

FID = 1.14 ppm

5'-10' PID = 210 ppm

FID = 1.60 ppm

10'-15' PID = 234 ppm

FID = 1.68 ppm

~~* Measuring at 2.5' (center of core)~~ ^{NS}

15'-20' PID = 90.04

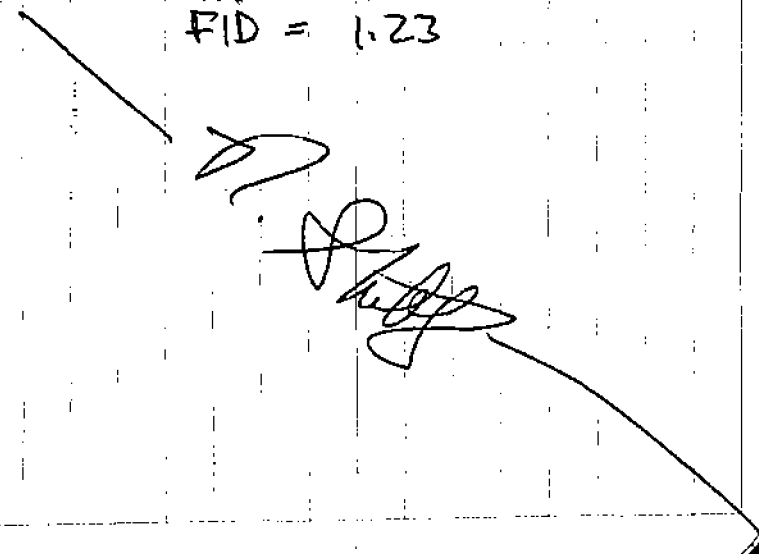
FID = 1.13

20'-25' PID = 136.1

FID = 1.48

25'-30' PID = 78.03

FID = 1.23



Vapor study & Soil borings

- 1000 START Stubbs followed up with Mrs. Hogan at 104 Jasmine Lane. Her sample was collected by REAC at 0900.
- 1010 David Dorian called START Stubbs & informed that we need an appt. with Mrs. Butler at 1030 for 238 Mills Gap Rd.
- 1025 START Stubbs spoke to Gary Newhart (EPA) & he said he drilled & installed a port at 106 Jasmine Lane.
- 1040 START Stubbs & David Dorian obtained access at 238 Mills Gap Road from Kathy Butler for slab-air sample & soil borings.
- 1100 Gary Newhart (EPA) & Danielle (REAC) arrived at 238 Mills Gap Road to install a port in the basement slab for an air sample.

- 1110 START Stubbs spoke to START Campbell. Campbell says it took 2 hours for the first soil boring & it is looking like it is not possible to be finished with the soil borings by this Friday.
- 1200 Lunch
- 1245 START Stubbs, Campbell & Baba back on site.
- 1355 START Stubbs, Gary Newhart (EPA) & Danielle (REAC) & Evan (Attamont) at 261 Mills Gap Road to start a summa canister in the crawlspace.
- 1400 Started MGSC-23 Summa canister at 261 Mills Gap Road.
- 1410 Started MGSC-25 ^{NS} Mills Gap at 275 Mills gap Road. This was a summa canister sample.

Mills Gap

12/12/07

- 1420 Arrived at 28 Clove Bud Court (Watt Docking) to start a sunna canister in the crawlspace. START Stubbs observed two car batteries in the crawlspace.
- 1423 Started MGSC-38 sunna canister at 28 Clove Bud Court.
- 1440 START Stubbs, Gary Newhart (EPA) & Danielle (REAC) at 2 Bud Clove Court to collect a Tedlar bag air sample from the port in the basement slab.
- 1450 START Stubbs back on site to assist in the soil samples. START Babu screening soil at the 3rd soil boring & START Campbell in handling Form Z Lite.
- 1540 START Stubbs spoke to David Dorian and confirmed that MGSC-03 is our final soil boring today.

Mills Gap

12/12/07 63

- 1540 continued - Greg Powell (ERT) is going to have the Geoprobe do an exploratory boring but START will not be sampling the soil per David Dorian.
- 1545 START Stubbs, Campbell & Babu prepped samples for CLP.
- 1700 START Stubbs & Campbell headed to FedEx Kinkos in Asheville, NC to ship samples.
- 1740 START Stubbs & Campbell arrived back on-site. Packed up equipment & broke down workstation.
- 1800 START Stubbs spoke to David Dorian & he wants to meet with START Campbell and Danielle (REAC) to go over air samples at 0730 tomorrow morning.
- 1830 START Stubbs, Campbell & Babu off-site and driving back to hotel. *M. Stubbs*

Weather: 45°F + overcast @ 0800

0730 START Stubbs, Campbell + Babu, David Dorian, EPA-ERT Gary Newhart + Danielle McCall of REAC met to go over game plan for today. Gary + Danielle will be collecting Summa canisters. START Stubbs will be performing groundwater sampling at the temp. well installed on-site yesterday. START Babu will be with Ken Woodruff of REAC + the Geoprobe drill where they started a soil boring before START arrived. START Campbell will be handling Forms2Lite.

0830 START Stubbs + Campbell setting up on-site the workstation for START Campbell to perform Forms2Lite.

0845 START Stubbs setting up at the temp. well on labeled as MGSB-20 / MW-20 on-site.
R. Stubbs

0905 START Stubbs gauged MW-20 @ 23.59' for static water level + 35' for total depth. The temp. well casing measures 2.8' above grade.
Susan Kelly & MacTee observed

0910 START Stubbs had to change the 9-volt battery in the Horiba U-2200 + then Auto calibrated. Auto cal good, but display is reading Error Z.
1015 Started purging at MW-20

1020



Location Mills Gap

Date 12/13/07

Project / Client

Groundwater Sampling

Readings for ~~MW-20~~ ^{GW01₁₅} (temp. well on site)

Initial	pH	cond.	Turb.	Temp.	Notes
Initial	4.8	15 mS/cm - SATUR		16.8 °C	Taken at 1020
5 min.	4.7	13	-5	17.2	1025
10 min.	4.7	11	-5	16.1	1030
15 min.	4.7	10	-5	15.2	1035
20 min.	4.6	9	-5	15.1	1040
25 min.	4.6	9	830	15.1	1045
30 min.	4.6	9	590	15.2	1050
35 min.	4.6	9	630	15.2	1055
40 min.	4.5	9	640	15.4	1100
45 min.	4.6	9	610	15.5	1105
50 min.	4.5	9	600	15.2	1110
55 min.	4.6	9	570	15.2	1115
60 min.	4.6	9	530	15.1	1120
65 min.	4.6	8	500	15.0	1125

Stopped to clear out the silt from Horiba's flow cell.

1130 START Stubbs cleared the flow cell + started pumping again.

	pH	cond.	Turb.	Temp.	Notes
1135	4.5	8	310	15.0	
1140	4.5	8	290	15.0	
1145	4.6	9	260	15.0	

11. Phos

Location Mills Gap

Date 12/13/07

Project / Client

Groundwater Sampling

~~Readings continued from MW-20~~

1145 START Stubbs stopped purging at MW-20.

1155 START Stubbs began collecting groundwater samples at MW-20. Approximately 6.0 gallons of water was purged prior to sampling.

* Backnote MW-20 referred to on the last three pages is ERT-REAC sample number. START's sample number for this sample is ~~MW-20~~ ^{GW01₁₅}

~~Stubbs~~

- 1245 START Stubbs + Campbell labeling samples + decoupling bowl + spoon to take a rinsate blank.
- 1400 START Stubbs + Campbell rinsate blank 6Z from Geoprobe sampler.
- 1420 START Stubbs spoke to David Dorian. David wants to sample from a well head + from the tap at a house on 2 Jean Drive.
- 1450 START Stubbs spoke to David Dorian + David wants START to separate time spent on sample the drinking water at 2 Jean Drive.
- 1530 START Stubbs prepping coolers to be shipped for CLP. START Campbell off-site to buy ice off for samples.
- 1640 START Stubbs + David Dorian heading to 2 Jean Drive. Gary Newhart + Greg Powell of EPA ERT.

- 1640 continued - Susan Johnson is the home owner at 2 Jean Drive. She has a water softener. Mark Powell + Susan Gentry of the Buncombe County Health Department. START Stubbs will sample the drinking water at the well head and from the tap in the kitchen. START Stubbs logged a GPS position at the well head. Set up a time with Susan Johnson to take the water samples tomorrow at 0830.
- 1800 START Stubbs, Campbell + Babu packed up on-site for the night.
- 1830 START Stubbs, Campbell + Babu off-site.

[Signature]

Sample drinking water at 2 Jean Drive

Weather: 42°F, cloudy & breezy

0745 START ~~on-site~~^{RS} Stubbs, Campbell & Babu on-site. START Stubbs collecting GPS data for soil borings on-site. START Campbell & Babu are getting sample bottles ready to sample the drinking water at Susan Johnson's at 2 Jean Drive.

0815 START Stubbs, Campbell & Babu arrived at 2 Jean Drive.

0830 START Stubbs, Campbell & Babu collected samples at 2 Jean Drive. Sample #SW-DW-01 taken at wellhead (MS/MSD) & #SW-DW-02 taken at tap in kitchen & Dup. as SW-DW-03.

0900 START Stubbs & Babu loading equipment to go sample GWO2.

0915 START Stubbs & Babu ~~at~~^{RS} at GWO2 ready to start purging & samples. GWO2 has a static water level of 14.82' & total depth of 30'. Water column is 15.18'. 5 well volumes is 3.11 gallons.

0925 START Stubbs & Babu auto calibrated the Horiba U-22.
0945 START Stubbs & Babu starting purging at GWO2
Readings for GWO2

Time	pH	Cond.	Turb.	Temp.	Notes
1000	4.5	8 mS/m	-5	13.1°C	Initial reading
1005	4.7	5	-5	13.5°C	
1010	4.5	4	-5	13.5	
1015	4.5	4	-5	13.5	
1020	4.6	4	-5	13.5	
1025	4.6	4	-5	13.5	
1030	4.6	4	850	13.5	
1035	4.6	4	480	13.5	3.25 gallons purged
1040	Sampled at GWO2				
1110	START Stubbs set up at GWO3 as START Babu took sampler to START Campbell on-site. 1.50' RS				
GWO3 static water level of 0.60' and a total depth of 9.80'. The water column is 8.30'. 5 well volumes is 1.70 gallons.					

Groundwater sampling

1125 START Stubbs + Babu started at GW03
GW03 Reading

Time	pH	Cond	Turb.	Temp.	
1127	5.3	4 mS/m	-5 ntu	12.3°C	Initial reading
1132	4.8	4	-5	12.5	~~~~~
1137	4.6	4	-5	12.9	~~~~~
1142	4.6	4	-5	12.9	~~~~~
1147	4.6	3	-5	13.0	2.0 gals. purged

1150 Collected samples at GW03

1230 START Stubbs + Babu back on site with START Campbell to prep samples for shipment and take down the workstation.

1330 START Campbell + Babu leaving the site + headed to hotel + then to the Asheville airport. START Stubbs has to finish logging some GPS locations + attempt to get an access agreement signed at 106 Jasmine Lane.

1425 START Stubbs arrived at 106 Jasmine Lane to have the access agreement signed.

* Duplicate collected at GW03.

1425 Continued - A friend of the owners was doing some cleaning. He said the owners left yesterday and won't be back for a couple of weeks.

1500 START Stubbs finished logging the GPS points for the vapor + soil sample locations. Heading to FedEx in Asheville, NC to drop off samples for shipment.

1530 START Stubbs dropped off samples at FedEx Kink's in Asheville, NC and demobilized back to Marietta, GA.

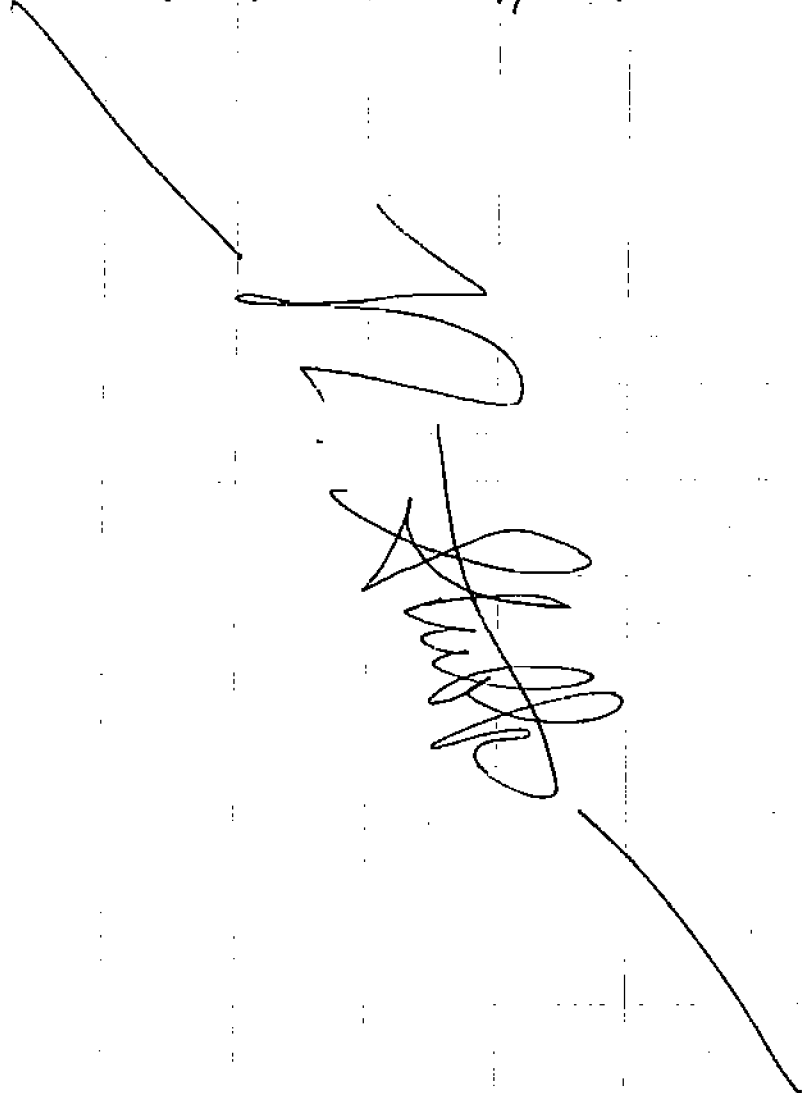
* Backnote: No soil borings were performed today due to the Geoprobe (Enviroprobe) sub-contracted by EPA-ERT demobilizing on 12/13/07.

* Backnote: David Dorian instructed START not to sample MW-1 that was found on the Rice Property near 261 + 271 Mills Gap Road.

Location Mills GapDate 12/14/07

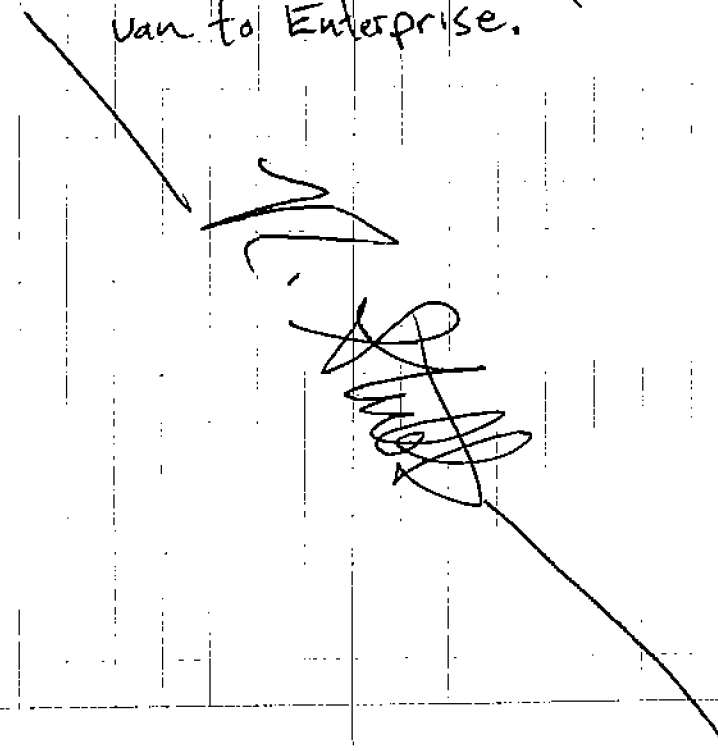
Project / Client _____

1930 START Stubbs arrived
back in Marietta, GA.


Mills Gap12/15/07

Project / Client _____

0830 START Stubbs arrived at the
office in Marietta, GA and
unloaded rental van + put
equipment + supplies away.
1040 START Stubbs departed
office to FedEx to ship
rental equipment back to
Pine Environmental.
1115 START Stubbs returned rental
van to Enterprise.



McCormick, SC
Barite Site

12/30/07

Monitoring could be done on a weekly basis. EPA recommended placing buoy above deepest portion of leachate pond. START recommended that dedicated Grout pump could be utilized with line / teflon tubing marked at required sample depths.

Michael Thompson

Atlanta to Asheville, N.C. 12/10/07
Asheville, Mills Gap Contamination Site

0700 Pick up rental for Asheville, N.C., Mills Gap Project.
0800 Load up equipment in rental van and truck
1200 Demo to Hotel in Fletcher North Carolina.
1000 ARRIVE AT hotel in Fletcher North Carolina.

Michael Thompson

Asheville, N.C. 12/11/07
Mills Gap Contamination Site

0700 Depart to site.

0715 Arrive at site.

0730 Nelson, Ryan, etc. begin vapor monitoring event.

0745 Susan, from UAC, briefed us on her duties for this event, as PRP.

0815 Ryan informs us of his next PRA assignment at RAC resident.

0915 START Campbell off-site, heading to property owner, Nogen at 104 Jasmine Lane. Property owner has a radon system.

Property owner would prefer sampling tomorrow morning.
1000 START Campbell at 36 Clow Bud Court. Property owner has recently painted the ceiling, gables is also dried with Dabon Folly.

1520 START Campbell takes REAC to 108 Nodding Lane 4501, MG-SC-10 is sample ID. REAC is working.
START time = 1522
Karen Campbell

Asheville NC 12/11/07
Mills Gap Contamination Site

START pressure = -29

1527 104 Nodding Lane 4501

sample ID MGSC-12

START time = 1527

START pressure = -29.

1535 REAC sets out ambient

air summa canister out

4502, REAC Ambient is

sample ID.

1628 outside +20 102 Nodding Lane

16 REAC sets up summa

canister MG SC-119 is the

sample ID.

sample set at 119 Rubus in

crawl space.

START time = 1628

initial pressure = -29

1707 REAC sets summa

canister at 113 Rubus

sample ID - MGSC-113.

In the level above where summa canister is placed, there are cans of paint, wood finish and

Asheville NC 12/11/07
Mull's Gap Contamination

mineral spirits and a
gasoline can are being
moved. (6)

1737 LEAC sets up Summa
Canister at 112 Retuma
Sample ID MGSC-14
Start pressure = -28
Start time = 1737

1741 LEAC sets up Summa
Canister at 108 Retuma
Sample ID MGSC-15
Start pressure = -28
Start time = 1741

1800 start Campbell and Hubbs
off-site. (6)

Karen Campbell
12/11/07

Asheville NC 12/12/07
Mull's Gap Contamination

0700 STARTS Campbell, Babu and
Hubbs on-site. (4)

0803 TAGA on-site.

10:20 BRAND - PID - 68.90

10:30 PID - 0.41

MA-SB-01 PID - 90.04

15-20 FID - 1.13

MA-SB-01 PID - 136.1

20-25 FID - 1.48

25-30 PID - 78.03

FID - 1.23

1250 MA-SB-02 PID - 5807 ppm ⁰⁻⁵ (0-1)

BRAND FID - 1.54 ppm

PID: 82.3 ppm

FID: 1.49 ppm

5-10 ft PID = 5700 ppm

FID = 1.5 ppm

10-15 ft PID = 6400 ppm

FID = 1.48

15-20 ft PID = 990 ppm

FID = 1.25

20-25 ft PID = 232 ppm

FID = 1.08 ppm

Karen Campbell 12/12/07

Location

Date

12/12/07

Project / Client

SB-02 and duplicate SB-22

25-30 ft PID = 520 ppm

FID = 1.1 ppm

30-35 ft - PID = 240 ppm

FID = 0.98 ppm

Sample SB-02 and duplicate
SB-22 will be collected
from sample depth 19-15 ft
SB-02 is ERT sample location
MGSB-A.

Backnote: Sample MGSB-01
was collected from sample
depth 11-13 ft BGS.

End backnote:
And MS/MSD collected
at START sample location
MGSB-01.

1425 MG-SB-03 - ERT location MGSB-20

BKEND PID: 4 ppm

FID: 0 ppm

0-5' : PID: 24 ppm

FID: 0.5 ppm

5'-10' PID: 48 ppm

FID: 1.0 ppm

Naren Behn 12/12/07

Location

Asheville, NC

Date

12/12/07

Project / Client

MILLS GAP

10-15' PID: 14 ppm

FID: 1.0 ppm

15-20' PID: 38 ppm

~~20-25'~~ FID: 78 ppm (19-20')

20-25' PID: 13 ppm

FID: 123 ppm (21.5-22.5')

25'-30' PID: 15 ppm

FID: 120 ppm (26'-27')

1520 30-35' PID: 4.5 ppm

FID: 1.5 ppm

1525 Sample MGSB-03 collected from
17-19' interval. MB

1700 MG-SB- ERT location MGSB-01

0-5' PID: 24 ppm

FID: 0.8 ppm

5-10' PID: 47 ppm

FID: 1.5 ppm

10-15' PID: 38 ppm

FID: 1.5 ppm

15-20' PID: 9.1 ppm

FID: 0.88 ppm

20-25' PID: 11.4 ppm

FID: 1.28 ppm

Naren Behn 12/12/07

Location Asheville, NC

Date 12/13/07

Project / Client MILLS GAP

0825 START Bob at 108 Jasmine Lane
after attending meeting at Earth Fare
with O&ERT & REAC Teams. — NB

0830 TVA morning. Background for
PID: 1 ppm FID: 1.14 ppm

0850 Screening cores at location
MG-SB-20 started. ERT location
MG-SB-09. 0-5' core
PID: 1.60 ppm
FID: 1.34 ppm

0900 Core 5-10'
PID: 1.50 ppm
FID: 1.02 ppm

After 9' - clay - Red/Brown in color
core 10'-15'
PID: 1.44 ppm
FID: 0.98 ppm

clay - Red/Brown in color
core 15'-20'

PID: 1.2 ppm
FID: 1.82 ppm

loc 20'-25': no ppm
PID: 1.0 ppm
FID: 1.61 ppm

Location Asheville, NC

Date 12/13/07

Project / Client MILLS GAP

0940 Backlogs: MG-SB-20 (ERT location
MG-SB-09 is collected from an area
East of 108 Jasmine Ln (East
end of the sheet). — NB
25'-30' core:
PID - 1.2 ppm
FID - 1.85 ppm

1005 Sample MG-SB-20 was collected
from for SVOCs, VOCs, metals/Cu &
moisture content from 13'-15'
interval. — NB

1025 Sampling team arrived at location
MG-SB-21, ERT location MG-SB-10.
Located at the East end of
Silk Tree Ln & NE of 108 Silk Tree
0-5' core

1050 PID: 4.8 ppm
FID: 1.54 ppm

5'-10' core
PID: 7.72 ppm
FID: 1.70 ppm

10-15' PID: - 1.4 ppm
FID: - 1.46 ppm

Amber Baber 12/13/07

Location Asheville, NC

Date 12/13/07

Project / Client MILLS GAP

11:20 15-20' core

PID : 1.4 ppm

FID : 0.99 ppm

1125 Sample MG-SB-21 (ERT MG-SB-10)
collected from interval 15-17'.
Sandy and Moist material on top of
hard clay. ———— NB

1145 Dropped off samples for pressing.

1150 Break for lunch. ———— NB

1245 Back from lunch. ———— NB

1300 275 Mills Gap Rd - MG-SB-10 is
the next soil boring location. ERT
location is MG-SB-27. Field Team
at SB-10 (ERT SB-27) ———— NB

1330 START performed calibration of TVA.
Bump Test Results: 100 pp NB

99.43 ppm for 100 ppm iso

99.2% for 95 ppm methane.

Calibrated using 95 ppm CH₄ for 100 ppm iso

0-5 PID - 9.4 ppm

FID - 0.6 ppm

5-10 PID - 10.68 ppm

FID - 0.42 ppm

Nolan Baker 12/13/07 NB

Location Asheville, NC

Date 12/13/07

Project / Client MILLS GAP

10-15' PID - 22.4 ppm

FID - 0.61 ppm

15-20' PID - 16.90 ppm

FID - 0.73 ppm

20-25' PID - 17.90 ppm

FID - 0.34 ppm

14:00 Weather conditions: Raining, PID
readings may not be accurate because of
humidity in the air ———— NB

14:10 Geoprobe sampler was dropped inside
hole accidentally. Crew working on
recovering it. ———— NB

15:15 Geoprobe sampler recovered with
25-30' core. ———— NB

1525 Screening results for 25'-30'

1540 collected MG-SB-10 samples from
28'-30' interval ———— NB

1600 Geoprobe at next soil boring
location MG-SB-08; ERT location
MG-SB-24. Screening results:

0-5' PID - 20.41

FID - 2.68

5-10 PID - 138

FID - 1.69

Location Ashwell, NC Date 12/1/07

Project - Client Mills GAP

1630 Collected sample MG-SB-08 from
interval 7-10. Collected sandy/white
mudst material on top of clay/Brown material
1700 Started processing samples to ship through Redco.

Naren Behar

12/13/07

Superficially left blank

Location _____ Date _____

Project / Client _____

[illegible]

Marietta, GA 1/14/08
Mills Gap / EPA Reg 4 START3
Land + Mobile

Weather: 32°F + clear

0730 START Stubbs arrived at
Enterprise in Marietta, GA +
picked up rental van.

0805 START Stubbs at office +
loaded van.

1230 START Stubbs mobilized to
Asheville, NC.

1630 START Stubbs arrived at
the hotel in Fletcher, NC.

[Handwritten signature]

Location Asheville, NC Date 1/15/08
Project / Client Mills Gap
Soil + Groundwater sampling

Weather: 25°F, clear + windy

0700 START Stubbs + Campbell
on-site setting up.

0740 Farrah Wolff Inc. (drillers)
on-site.

0745 START Stubbs calibrating
TVA 1000 S/N 0610416679

ISO Lot # L1D076-E-CM 100 ppm

Heilme Lot # L1D101-F-CM 100 ppm

Cal: accepted for iso + methane

Bump test - PID = 101 ppm

FID = 36 ppm

* No going to use FID

0800 Ken Woodruff of REAC on-site

0920 START Stubbs, Ken Woodruff

+ two drillers starting at

M66C-SB-09, background

FID is -0.27 ppm, SB-09

is ERT SB-26

PID Readings:

- 0'-4' = -0.04 ppm

- 4'-8' = -0.07 ppm

- 8'-12' = -0.11 ppm

Location Asheville, NC

Date 1/15/08

Project / Client Mills Gap

Soil & Groundwater Sampling

0750 SB-07 continued

PID Readings:

- 12'-16' = -0.14 ppm

- 16'-20' = 0.19 ppm

- 20'-24' = -0.07 ppm

- 24'-28' = 0.01 ppm

End of boring

Temp well installed at 225' +
this is GWD4

- Soil sample collected from 6.5'-8.5' @ 0910 as the soil was saturated @ 9'

1015 Set up at SB-16 (ERT# SB-38) at 28 clove Bul Court.

1050 START Stubbs is screening cores from SB-07 (ERT# SB-41) that ERT collected on 1/14/08 with the knowledge of START.

PID readings for SB-07

- 0-4' = -0.30 ppm Background of PID = -0.53 ppm

- 4-8' = -0.25 ppm

- 8-12' = -0.03 ppm

Location Asheville, NC

Date 1/15/08

Project / Client Mills Gap

SB-07 PID reading

- 12-16' = -0.25 ppm

- 16-20' = -0.22 ppm

- 20-24' = -0.39 ppm

Sample collected from 10'-12' @ 1105 + duplicate collected

1100 Ken Woodruff + drillers RS

1130 Ken W. + drillers finished at SB-16 + installed temp well GWD5 RS

1145 Lunch RS

1230 START Stubbs + Campbell back on-site. Ken Woodruff + drillers setting up at SB-17 (ERT# SB-54)

1245 START Stubbs screening soil from SB-16

PID readings: Background = -0.53 ppm

0-4' = 0.23 ppm

4-8' = 0.33 ppm

8-12' = 1.17 ppm

12-16' = 0.70 ppm

16-20' = 0.35 ppm

1300 Soil sample collected at SB-16 @ 8-10'

Asheville, NC

1/15/08

Mills Gap

Soil + groundwater sampling

1335 START collected Rinse
Blank RB-04 from a
macro sampler the drillers
had returned

1350 START Stubbs screening
soil from SB-17.

PID readings: Background = -0.53 ppm

0-4' = 1.52 ppm

4-8' = 2.31 ppm

8-12' = 0.31 ppm

12-16' = -0.33 ppm

16-20' = 1.54 ppm

20-24' = 1.68

1415 Soil sampled at SB-17 at 6-8'
A temp. well was installed at
SB-17 + is SW 06.

1450 START Stubbs screening soil
at SB-05 (ERT# SB-56)

PID readings: Background = -0.61 ppm

0-4' = 2.20 ppm

4-8' = 1.20 ppm

8-12' = 0.31 ppm

12-16' = 0.21 ppm

16-20' = 0.54

Asheville, NC

1/15/08

Mills Gap

Soil + groundwater sampling

PID readings for SB-05 cont.

20-24' = 0.35 ppm

1510 Soil sampled at SB-05 at
2-4' RS

1515 START Stubbs screening at
SB-06 (ERT# SB-57)

PID Readings: Background is -0.66 ppm

0-4' = 0.54 ppm

4-8' = -0.17 ppm

8-12' = 0.29 ppm

12-16' = 0.02

16-20' = -0.05 ppm

Refusal at 18'

1535 Soil sampled at 2-4' at
SB-06.

1545 START Stubbs + Campbell
prepping samples for shipment

1715 START offsite en route
to FedEx.

1800 START finished for day,
after delivering the samples
to FedEx.

[Signature]

Location Asheville, NC

Date 1/16/08

Project / Client

Mills Gap

Soil + Groundwater sampling

Weather: 26°F + partly cloudy

-RS

0715 START Stubbs + Campbell
on-site setting up.0745 START Stubbs calibrating TVA
1000 S/N 0610416699.Iso-Lot #170876-E-CH 100 ppm
expires 04/2009Mtlane-Lot #LTD106-E-CH 100 ppm
expires 04/2009Cal. accepted for PID + FID
Emp test: 100 ppm for PID
100 ppm for FID0700 Ken Woodruff - E.P.C. +
Parrott Wolf Inc. (Drillers)
on-site.

-RS

0815 Greg Farrell - ERT on-site.

0900 Susan Kelly - Mactee on-site
with keys to allow us on-site
+ in the fenced in area
on the Rice Property.0915 Ken Woodruff, Drillers + START
Stubbs set up at SB-11
(ERT # SB-20).

Location Asheville, NC

Date 1/16/08

Project / Client

Mills Gap

Soil + Groundwater sampling

0745 START screening soil with
TVA 1090, Bkgnd. PID = -0.47 ppm

0-4' PID = -0.08 ppm FID = -13 ppm

FID = -14 ppm

4-8' PID = -0.13 ppm

FID = -14 ppm

8-12' PID = -0.17 ppm

FID = -14 ppm

12-16' PID = 0.04 ppm

FID = -14 ppm

16-20' PID = -0.12 ppm

FID = -14 ppm

20-24' PID = -0.05 ppm

FID = -14 ppm

Refusal at 24' End of boring

1015 START sampled soil at SB-11
at 12-13' RIS1045 START Stubbs on-site to
screen soil at SB-04(ERT # SB-20). The FID
doesn't seem to be operating
correctly, so going to just
use the PID for screening.

N. Stubbs

Location Asheville, NC

Date 1/16/08

Project / Client Mills Gap

Soil & Groundwater Sampling

Photo log:

- (1) View of drillers doing a soil boring (SB-11).
 (2) View of drillers truck.

Location Asheville, NC

Date 1/16/08

Project / Client Mills Gap

1045 Continued
 PID readings for SB-04
 Background PID = -0.60 ppm
 0-4' = -0.31 ppm
 4-8' = -0.18 ppm
 8-12' = -0.03 ppm
 12-16' = -0.20 ppm
 16-20' = 0.65 ppm
~~20-24' =~~

1115 START collected soil sample
 at SB-04 @ 16-18'
 *Note Ken Woodruff - REAC
 is going to GPS the locations
 have him email the GPS
 data. RS

1130 START off-site to get
 custody seals at hotel
 and to buy coolers for
 shipping. RS

1230 START back on-site

1245 START Stubbs setting up
 at SB-17/GW06 to sample
 groundwater.

Location Asheville, NC

Date 1/6/08

Project / Client Mills Gap

Soil & Groundwater Sampling

1245 Groundwater Sampling at GW06

Static water level is 3.08'

Total depth is 18'

Water column is 14.92'

One well volume is 0.61 gals.

Three well volumes is 1.83 gals

1300 Calibrated Horiba, getting error
5 for Turbidity.

	pH	Cond.	Turb	Temp
1310	4.03	12	-5	9.6
1315	4.50	9	-5	10.9
1320	4.65	8	-5	12.2
1325	4.73	8	-5	12.4
1330	4.75	8	-5	12.4

1335 3 well volumes purged +
collecting sample + MS/MSD1410 START Stubbs setting up at
SB-09/GW-04 to sample
groundwater.

Static water level is 7.32'

Total well depth is 21.5'

Water column is 14.18'

3 well volumes is 1.74 gallons

N. Stoltz

Location Asheville, NC

Date 1/6/08

Project / Client Mills Gap

Soil & Groundwater Sampling

GW04

	pH	Cond	Turb	Temp
1420	5.27	6	0	13.7
1425	4.97	5	-5	13.7
1430	5.07	5	-5	13.9
1435	5.00	5	-5	13.9

1437 3 well volumes purged

1440 Water sample collected +
a duplicate collected1515 START Stubbs set up at
SB-16/GW05 to sample
groundwater.

Static water level is 13.37'

Total well depth is 17.5'

Water column is 4.13'

3 well volumes is 0.51 gals.

	pH	Cond.	Turb.	Temp.
1530	5.25	5	-5	13.7
1535	4.86	6	-5	14.6

NCS

1537 3 well volumes purged

1540 Collected water sample at
GW05

1700 START took samples to FedEx

1745 START finished for the day

Location Asheville, NC

Date 1/17/08

Project / Client Mills Gap

Abandoned temporary wells

Weather 30°F + raining

RS

0800 START Stubbs and Campbell
abandoned temp wells GWO4,
GWO5 + GWO6.

0940 START Stubbs + Campbell meet
with David Dorian + Greg
Powell of ERT. Ken Woodruff
of ERT-REAC also attended.
David wants all of the data
to be presented visually of
Topo maps (water well, surface
water, surficial soil, subsurface
soil + groundwater sampling).
Presented on Google Earth is
a possibility too. START
Stubbs to be in touch with
David Dorian next Tuesday, Jan.
22.

RS

1100 Meeting complete with David
Dorian.

1130 START Stubbs + Campbell
tracking down metals blank
that was supposed to be →

Asheville, NC

1/17/08

Project / Client

Mills Gap

1130

Delivered FedEx on 1/14/08.
START Campbell spoke to
Liam Krebs + Greg Kowalski.
FedEx says package "In
Transit" from Marietta, GA.

1500

David Dorian told START
Campbell + Stubbs to ship
the metals sample without
the metals blank. The
lab sent the metals blank
to Marietta, GA instead of
the hotel in Fletcher, NC.
As a result we don't know
when it will be delivered +
START Campbell is taking the
metals sample to FedEx
for shipment + START
Stubbs is demobing to
Marietta, GA.

1900

START Stubbs arrived
back in Marietta.

R. [Signature]

APPENDIX D
PHOTOGRAPHIC LOG
(2 Pages)



Official Photograph No. 1

Site Name:	Mills Gap	Date:	December 11, 2007
Location:	Asheville, Buncombe County, NC	TDD No:	TNA-05-001-0043
Photographer:	Ryan Stubbs, START		
Subject:	View of the TAGA bus on site facing west.		



Official Photograph No. 2

Site Name:	Mills Gap	Date:	January 16, 2008
Location:	Asheville, Buncombe County, NC	TDD No:	TNA-05-001-0043
Photographer:	Ryan Stubbs, START		
Subject:	View of the drillers advancing a soil boring off site.		

APPENDIX E
BORING LOGS
(16 Pages)

BORING LOG

START ID MGGC-SB-01

HOLE ID

mgSB-1

DRAFT

1. COMPANY NAME Lockheed Martin/REAC	2. DRILLING SUBCONTRACTOR Enviroprobe Integrated Solutions	SHEET 1 OF 1 SHEETS
3. PROJECT Mills Gap Road	4. LOCATION Ashville, NC	
5. NAME OF DRILLER	6. HOLE LOCATION Site Building Parking Lot	
7. TYPE OF DRILLING EQUIPMENT GEOPROBE	8. DATE STARTED 12/12/2007	9. DATE COMPLETED 12/12/2007
	10. TOTAL DEPTH OF HOLE 30 feet	
11. OVERBURDEN THICKNESS	12. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	14. SIGNATURE OF INSPECTOR	
15. DISPOSITION OF HOLE	<input type="checkbox"/> BACKFILLED <input type="checkbox"/> MONITORING WELL <input type="checkbox"/> OTHER (SPECIFY)	
	<input checked="" type="checkbox"/> X	

ELEV	DEPTH FT.	DESCRIPTION OF MATERIALS	PID READINGS	REMARKS
	2	Blacktop, 3 to 6 inches, underlain by reddish-brown SILT (weathered schist), dry	0	
	4			
	6			
	8	Reddish-brown SILT, dry, friable (weathered schist)	0	100% recovery
	10			
	12			
	14	Reddish-brown SILT, micaceous, some quartz fragments, dry	0	100% recovery
	16			
	18			
	20	Reddish-brown SILT, micaceous, some quartz fragments, slight foliation at bottom of core, dry	0 - 0.5 ppm	100% recovery
	22			
	24			
	26	Red to gray-brown SILT, micaceous, to dark gray SILT at bottom of core, some foliation, dry	0	100% recovery
	28			
	30			
	32	Reddish-brown to light brown SILT, slightly clayey, friable, dry, occasional rock fragment, foliated at 29 to 30 ft. TD	0	100% recovery
	34			

<div style="display: flex; justify-content: space-between;"> BORING LOG DRAFT </div>				START ID MGGC-SB-02		HOLE ID mgSB-19
1. COMPANY NAME Lockheed Martin/REAC			2. DRILLING SUBCOTRACTOR Enviroprobe Integrated Solutions		SHEET 1 OF 1 SHEETS	
3. PROJECT Mills Gap Road			4. LOCATION: Ashville, NC			
5. NAME OF DRILLER			6. HOLE LOCATION: northern fence line			
7. TYPE OF DRILLING EQUIPMENT GEOPROBE			8. DATE STARTED 12/12/2007		9. DATE COMPLETED 12/12/2007	
			10. TOTAL DEPTH OF HOLE 35 feet			
11. OVERBURDEN THICKNESS			12. DEPTH GROUNDWATER ENCOUNTERED			
13. DEPTH DRILLED INTO ROCK			14. SIGNATURE OF INSPECTOR			
15. DISPOSITION OF HOLE		BACKFILLED X	MONITORING WELL	OTHER (SPECIFY)		

ELEV	DEPTH FT.	DESCRIPTION OF MATERIALS	PID READINGS	REMARKS
	2	Fill with concrete fragments, clayay SILT near bottom of core	>1	90% recovery
	4			
	6	Mixture of concrete fragments and SILT, sandy, dark gray; silty CLAY from 8.5 to 10 feet, dry	0 4 ppm	100% recovery
	8			
	10	brown SILT, slightly clayey, micaceous, rare quartz fragments, dry	10 ppm middle of core	100% recovery
	12			
	14	top 6 inches: sandy SILT, brown, pebbly, 15.5 to 20 feet: silty CLAY, to clayey SILT, brown, cohesive, slightly moist	> 3	100% recovery
	16			
	18	20 - 24.5: sandy, silty CLAY, brown, soft. 24.5 - 25: silty CLAY, dark gray, micaceous, moderately cohesive, dry to moist	1 to 4 ppm	100% recovery
	20			
	22	25 - 30: silty CLAY, brown 27 - 30: gray to brown SAPROLITE, silty, sandy, micaceous, moist	0 to 5 ppm	95% recovery
	24			
	26	gray, clayey SAPROLITE (weathered schist), foliated, dry	0	95% recovery
	28			
	30			
	32			
	34			

<div style="display: flex; justify-content: space-between;"> BORING LOG START ID MGGC-SB-03 </div> <div style="display: flex; justify-content: space-between;"> DRAFT HOLE ID mgSB-20 </div>			
1. COMPANY NAME Lockheed Martin/REAC		2. DRILLING SUBCONTRACTOR Enviroprobe Integrated Solutions	
3. PROJECT Mills Gap Road		4. LOCATION: Ashville, NC	
5. NAME OF DRILLER		6. HOLE LOCATION: northern fence line	
7. TYPE OF DRILLING EQUIPMENT GEOPROBE		8. DATE STARTED 12/12/2007	9. DATE COMPLETED 12/12/2007
		10. TOTAL DEPTH OF HOLE 35 feet	
11. OVERBURDEN THICKNESS		12. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK		14. SIGNATURE OF INSPECTOR	
15. DISPOSITION OF HOLE		OTHER (SPECIFY)	
<input type="checkbox"/> BACKFILLED <input type="checkbox"/> MONITORING WELL <input checked="" type="checkbox"/> screen 22-32 ft			

ELEV	DEPTH FT.	DESCRIPTION OF MATERIALS	PID READINGS	REMARKS
	2	SILT, sandy, reddish-brown, micaceous, dry	0 to 5 ppm	50% recovery
	4			
	6	5 - 6: SILT, clayey, wet		55% recovery
	8	6 - 10: SILT, sandy, micaceous, slightly clayey at bottom of core, dry	0 to 1 ppm	
	10			
	12	brown SILT, sandy, micaceous, dry	0	100% recovery
	14			
	16	15 - 19: SILT, brown, micaceous, slightly moist		
	18	19 - 20: SILT, dark gray, clayey, moderately cohesive, slightly moist	19 - 20 feet: 48 to 70 ppm	100% recovery
	20			
	22	CLAY, silty, dark gray, micaceous, moderately cohesive, grading downwards to light gray to brown clayey SILT with quartz fragments, dry to moist	21-22.5 feet: 50 - 100 ppm	100% recovery
	24			
	26	25 - 27: CLAY, silty, dark gray	26 feet: FID = 120 ppm PID = 10 ppm	100% recovery
	28	27 - 30: SILT, dark gray, micaceous, mottled brown, moist to dry		
	30			
	32	SILT, brown, micaceous, wet, grading downwards to foliated weathered schist, dry	0 - 1 ppm	95% recovery
	34			

BORING LOG

START ID MGGC-SB-04

HOLE ID

mgSB-58

1. COMPANY NAME Lockheed Martin/REAC		2. DRILLING SUBCONTRACTOR Enviroprobe Integrated Solutions		SHEET 1 OF 1 SHEETS	
3. PROJECT Mills Gap Road		4. LOCATION: Ashville, NC			
5. NAME OF DRILLER Parratt-Wolfe		6. HOLE LOCATION: on site, northeast corner, near Mills Gap Road			
7. TYPE OF DRILLING EQUIPMENT GEOPROBE		8. DATE STARTED 1/16/2008		9. DATE COMPLETED 1/16/2008	
		10. TOTAL DEPTH OF HOLE 20 feet			
11. OVERBURDEN THICKNESS		12. DEPTH GROUNDWATER ENCOUNTERED dry			
13. DEPTH DRILLED INTO ROCK		14. SIGNATURE OF INSPECTOR			
15. DISPOSITION OF HOLE		BACKFILLED X		MONITORING WELL OTHER (SPECIFY)	

ELEV	DEPTH FT.	DESCRIPTION OF MATERIALS	PID READINGS	REMARKS
	2	3 to 4 inches of blacktop underlain by fill	NA	55 % recovery
	4			
	6	SILT, reddish-brown, friable, dry	NA	95% recovery
	8			
	10	SILT, reddish-brown, slightly sandy, dry	NA	100 % recovery
	12			
	14	SILT, reddish-brown, occasional quartz fragment, dry	NA	100% recovery
	16			
	18	SILT, reddeish-brown, occasional quartz fragment, dry,	NA	90% recovery
	20	refusal at 20 ft.		
	22			
	24			
	26			
	28			
	30			
	32			
	34			

<div style="display: flex; justify-content: space-between;"> BORING LOG START ID MGGC-SB-05 </div> <div style="display: flex; justify-content: space-between;"> DRAFT HOLE ID mgSB-56 </div>				
1. COMPANY NAME Lockheed Martin/REAC		2. DRILLING SUBCONTRACTOR Enviroprobe Integrated Solutions		SHEET 1 OF 1 SHEETS
3. PROJECT Mills Gap Road		4. LOCATION: Ashville, NC		
5. NAME OF DRILLER Parratt-Wolfe		6. HOLE LOCATION: across from site, western boring		
7. TYPE OF DRILLING EQUIPMENT GEOPROBE		8. DATE STARTED 1/15/2008	9. DATE COMPLETED 1/15/2008	
11. OVERBURDEN THICKNESS		12. DEPTH GROUNDWATER ENCOUNTERED dry		
13. DEPTH DRILLED INTO ROCK		14. SIGNATURE OF INSPECTOR		
15. DISPOSITION OF HOLE		<div style="display: flex; justify-content: space-between;"> BACKFILLED MONITORING WELL OTHER (SPECIFY) </div>		

ELEV	DEPTH FT.	DESCRIPTION OF MATERIALS	PID READINGS	REMARKS
	2	CLAY, reddish-brown, silty, to clayey SILT, dry	NA	100% recovery
	4			
	6	SILT, reddish-brown, micaceous, slightly foliated, friable, dry	NA	100% recovery
	8			
	10	highly weathered gneiss/schist, micaceous, foliated, dry	NA	100 % recovery
	12			
	14	highly weathered GNEISS/SCHIST, micaceous, foliated, dry	NA	40% recovery
	16			
	18	weathered GNEISS/SCHIST, dry	NA	100% recovery
	20			
	22	weathered GNEISS/SCHIST, inclined foliation, very hard driving, refusal at 24 ft.	NA	100% recovery
	24			
	26			
	28			
	30			
	32			
	34			

BORING LOG				START ID MGCC-SB-06		HOLE ID mgSB-57		
1. COMPANY NAME Lockheed Martin/REAC			2. DRILLING SUBCONTRACTOR Enviroprobe Integrated Solutions			SHEET 1 OF 1 SHEETS		
3. PROJECT Mills Gap Road			4. LOCATION: Ashville, NC					
5. NAME OF DRILLER Parratt-Wolfe			6. HOLE LOCATION: across from site, eastern boring					
7. TYPE OF DRILLING EQUIPMENT GEOPROBE			8. DATE STARTED 1/15/2008		9. DATE COMPLETED 1/15/2008			
11. OVERBURDEN THICKNESS			12. DEPTH GROUNDWATER ENCOUNTERED					
13. DEPTH DRILLED INTO ROCK			14. SIGNATURE OF INSPECTOR					
15. DISPOSITION OF HOLE			BACKFILLED X		MONITORING WELL		OTHER (SPECIFY)	
ELEV	DEPTH FT.	DESCRIPTION OF MATERIALS	PID READINGS	REMARKS				
	2	SILT, reddish-brown, friable, micaceous, dry	NA	95 % recovery				
	4							
	6	SILT, reddish-brown, friable, micaceous, dry	NA	95% recovery				
	8							
	10	highly weathered, SCHIST/GNEISS, sandy, slightly foliated, hard driving, dry	NA	100 % recovery				
	12							
	14	highly weathered, SCHIST/GNEISS, sandy, slightly foliated, hard driving, dry	NA	100% recovery				
	16							
	18	SILT, sandy to silty SAND, very fine, micaceous, refusal at 18 ft.	NA	90% recovery				
	20							
	22							
	24							
	26							
	28							
	30							
	32							
	34							

BORING LOG				START ID MGGC-SB-07		HOLE ID mgSB-41	
1. COMPANY NAME Lockheed Martin/REAC			2. DRILLING SUBCONTRACTOR Enviroprobe Integrated Solutions			SHEET 1 OF 1 SHEETS	
3. PROJECT Mills Gap Road			4. LOCATION: Ashville, NC				
5. NAME OF DRILLER Parratt-Wolfe			6. HOLE LOCATION: South Park Storage				
7. TYPE OF DRILLING EQUIPMENT GEOPROBE			8. DATE STARTED 1/14/2008		9. DATE COMPLETED 1/14/2008		
			10. TOTAL DEPTH OF HOLE 28 feet				
11. OVERBURDEN THICKNESS			12. DEPTH GROUNDWATER ENCOUNTERED dry				
13. DEPTH DRILLED INTO ROCK			14. SIGNATURE OF INSPECTOR				
15. DISPOSITION OF HOLE		BACKFILLED X	MONITORING WELL none	OTHER (SPECIFY)			
ELEV	DEPTH FT.	DESCRIPTION OF MATERIALS			PID READINGS	REMARKS	
	2						
	4						
	6				NA		
	8						
	10				NA		
	12						
	14				NA		
	16						
	18				NA		
	20						
	22				NA		
	24						
	26	Complete log not available. Hole advanced to refusal at 24 ft.			NA		
	28						
	30						
	32						
	34						

<div style="display: flex; justify-content: space-between;"> START ID MGGC-SB-08 HOLE ID </div> <div style="display: flex; justify-content: space-between;"> BORING LOG DRAFT </div>				HOLE ID mgSB-24	
1. COMPANY NAME Lockheed Martin/REAC		2. DRILLING SUBCOTRACTOR Enviroprobe Integrated Solutions		SHEET 1 OF 1 SHEETS	
3. PROJECT Mills Gap Road		4. LOCATION: Ashville, NC			
5. NAME OF DRILLER		6. HOLE LOCATION: along drive between springs 1 and 2			
7. TYPE OF DRILLING EQUIPMENT GEOPROBE		8. DATE STARTED 12/13/2007		9. DATE COMPLETED 12/13/2007	
11. OVERBURDEN THICKNESS		10. TOTAL DEPTH OF HOLE 10			
13. DEPTH DRILLED INTO ROCK		12. DEPTH GROUNDWATER ENCOUNTERED			
14. SIGNATURE OF INSPECTOR		15. DISPOSITION OF HOLE			
		BACKFILLED		MONITORING WELL	
		0-10 ft		OTHER (SPECIFY)	
ELEV	DEPTH FT.	DESCRIPTION OF MATERIALS	PID READINGS	REMARKS	
	2	0 - 1.5: SILT, dark gray, organic 1.5 - 5: SILT, light brown, oxidized, moist at bottom of core	120	45% recovery	
	4				
	6	5 - 7: SAND, medium, silty, saturated 7 - 10: SAND, light brown, silty, poorly sorted, grading downwards to pebbly oxidized SILT, dry	30	100% recovery	
	8				
	10				
	12				
	14				
	16				
	18				
	20				
	22				
	24				
	26				
	28				
	30				
	32				
	34				

BORING LOG				START ID MGGC-SB-09		HOLE ID mgSB-26	
1. COMPANY NAME Lockheed Martin/REAC			2. DRILLING SUBCONTRACTOR Enviroprobe Integrated Solutions			SHEET 1 OF 1 SHEETS	
3. PROJECT Mills Gap Road			4. LOCATION: Ashville, NC				
5. NAME OF DRILLER Parratt-Wolfe			6. HOLE LOCATION: near house just south of springs				
7. TYPE OF DRILLING EQUIPMENT GEOPROBE			8. DATE STARTED 1/15/2008		9. DATE COMPLETED 1/15/2008		
			10. TOTAL DEPTH OF HOLE 28 feet				
11. OVERBURDEN THICKNESS			12. DEPTH GROUNDWATER ENCOUNTERED approx. x. 8 ft				
13. DEPTH DRILLED INTO ROCK			14. SIGNATURE OF INSPECTOR				
15. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)			
			12.5 - 22.5 ft				
ELEV	DEPTH FT.	DESCRIPTION OF MATERIALS		PID READINGS	REMARKS		
	2	6-inches of TOPSOIL underlain by SILT, brown, clayey, dry, friable		NA	50% recovery		
	4						
	6	SILT, brown, clayey, grading downwards to light gray clayey SILT, dry		NA	100% recovery		
	8						
	10	SAND, light gray, silty, slightly clayey, saturated from 8 to 10 ft		NA	100 % recovery		
	12	10 to 12 ft: SILT, brown, sandy, dry					
	14	12 to 14.5 ft: SILT, gray, saturated		NA	90% recovery		
	16	14.5 to 16 ft: SILT, clayey, with quartz fragments, dry					
	18	16 to 18 ft: CLAY, white, sandy,		NA	80% recovery		
	20	18 to 20 ft: SILT, brown, micaceous, dry					
	22	SILT, brown, micaceous, dry, slightly foliated		NA	75% recovery		
	24						
	26	SILT, brown, micaceous with a few quartz fragments, dry, driving hard		NA	85% recovery		
	28						
	30						
	32						
	34						

BORING LOG

START ID MGGC-SB-10

DRAFT

HOLE ID

mgSB-27

SHEET 1

OF 1 SHEETS

1. COMPANY NAME Lockheed Martin/REAC

2. DRILLING SUBCONTRACTOR
Enviroprobe Integrated Solutions

3. PROJECT Mills Gap Road

4. LOCATION: Ashville, NC

5. NAME OF DRILLER

6. HOLE LOCATION: along drive southwest of springs

7. TYPE OF DRILLING EQUIPMENT

8. DATE STARTED 12/13/2007

9. DATE COMPLETED

GEOPROBE

10. TOTAL DEPTH OF HOLE 30feet

12/13/2007

11. OVERBURDEN THICKNESS

12. DEPTH GROUNDWATER ENCOUNTERED

13. DEPTH DRILLED INTO ROCK

14. SIGNATURE OF INSPECTOR

15. DISPOSITION OF HOLE

BACKFILLED

MONITORING WELL

OTHER (SPECIFY)

screen 20-30 ft

ELEV	DEPTH FT.	DESCRIPTION OF MATERIALS	PID READINGS	REMARKS
	2	SILT, reddish-brown, uniform, friable highly oxidized, dry	NA	90% recovery
	4			
	6			
	8	SILT, reddish-brown, micaceous, friable, highly oxidized, dry	NA	100% recovery
	10			
	12			
	14	SILT, reddish-brown, slightly sandy, friable, highly oxidized, with quartz fragments, dry	NA	100% recovery
	16			
	18			
	20	SILT, yellow-brown, clayey, grading downwards to foliated highly weathered schist, dry, harder driving	NA	100% recovery
	22			
	24			
	26	highly weathered schist, foliated, dry	120 ppm	100% recovery
	28			
	30			
	32	weathered schist, foliated saturated from approx. 25 to 27 feet TD	0	100% recovery
	34			

<div style="display: flex; justify-content: space-between;"> BORING LOG START ID MGGC-SB-11 </div> <div style="display: flex; justify-content: space-between;"> DRAFT HOLE ID </div>				mgSB-30	
1. COMPANY NAME Lockheed Martin/REAC		2. DRILLING SUBCONTRACTOR Enviroprobe Integrated Solutions		SHEET 1 OF 1 SHEETS	
3. PROJECT Mills Gap Road		4. LOCATION: Ashville, NC			
5. NAME OF DRILLER Parratt-Wolfe		6. HOLE LOCATION: north end of springs			
7. TYPE OF DRILLING EQUIPMENT GEOPROBE		8. DATE STARTED 1/16/2008		9. DATE COMPLETED 1/16/2008	
		10. TOTAL DEPTH OF HOLE 24 feet			
11. OVERBURDEN THICKNESS		12. DEPTH GROUNDWATER ENCOUNTERED approx. 12 ft			
13. DEPTH DRILLED INTO ROCK		14. SIGNATURE OF INSPECTOR			
15. DISPOSITION OF HOLE		<div style="display: flex; justify-content: space-between;"> BACKFILLED <input checked="" type="checkbox"/> MONITORING WELL <input type="checkbox"/> OTHER (SPECIFY) <input type="checkbox"/> </div>			
ELEV	DEPTH FT.	DESCRIPTION OF MATERIALS	PID READINGS	REMARKS	
	2	SILT, brown, sandy, moist	NA	55 % recovery	
	4				
	6	SILT, light tan to light gray, sandy, with quartz fragments, dry	NA	90% recovery	
	8				
	10	CLAY, light tan to brown, silty, sandy, from 8 to 10.5 ft, underlain by foliated, weathered SCHIST, micaceous	NA	90 % recovery	
	12				
	14	weathered SCHIST, wet 12 to 14 ft, foliated	NA	100% recovery	
	16				
	18	weathered SCHIST, saturated	NA	30% recovery	
	20				
	22	weathered SCHIST, foliated, saturated from 20 to 22 ft.	NA	100 % recovery	
	24				
	26				
	28				
	30				
	32				
	34				

BORING LOG				START ID MGGC-SB-16	HOLE ID mgSB-38
1. COMPANY NAME Lockheed Martin/REAC		2. DRILLING SUBCONTRACTOR Enviroprobe Integrated Solutions		SHEET 1 OF 1 SHEETS	
3. PROJECT Mills Gap Road		4. LOCATION: Ashville, NC			
5. NAME OF DRILLER Parratt-Wolfe		6. HOLE LOCATION: 2 Clove Bud Court			
7. TYPE OF DRILLING EQUIPMENT GEOPROBE		8. DATE STARTED 1/15/2008		9. DATE COMPLETED 1/15/2008	
		10. TOTAL DEPTH OF HOLE 20 feet			
11. OVERBURDEN THICKNESS		12. DEPTH GROUNDWATER ENCOUNTERED 18 - 20 ft			
13. DEPTH DRILLED INTO ROCK		14. SIGNATURE OF INSPECTOR			
15. DISPOSITION OF HOLE		<div style="display: flex; justify-content: space-between;"> BACKFILLED MONITORING WELL OTHER (SPECIFY) </div>			
		10 - 20 ft			

ELEV	DEPTH FT.	DESCRIPTION OF MATERIALS	PID READINGS	REMARKS
	2	6-inches of TOPSOIL underlain by SILT, brown, quartz fragments at bottom of core, moist	NA	100% recovery
	4			
	6	SILT, red to brown, with quartz fragments, dry light gray clayey SILT, dry	NA	100% recovery
	8			
	10	8 to 10 ft: SILT, reddish-brown, micaceous, friable, dry 10 to 12 ft: SILT, light tan, micaceous, friable, dry	NA	100 % recovery
	12			
	14	SILT, reddish-brown, micaceous, friable, dry	NA	100% recovery
	16			
	18	SILT, brown, moist to wet, laminated, hard driving	NA	90% recovery
	20			
	22			
	24			
	26			
	28			
	30			
	32			
	34			

BORING LOG				START ID MGGC-SB-17		HOLE ID mgSB-54	
1. COMPANY NAME Lockheed Martin/REAC			2. DRILLING SUBCONTRACTOR Enviroprobe Integrated Solutions			SHEET 1 OF 1 SHEETS	
3. PROJECT Mills Gap Road			4. LOCATION: Ashville, NC				
5. NAME OF DRILLER Parratt-Wolfe			6. HOLE LOCATION: 10 Concord Road				
7. TYPE OF DRILLING EQUIPMENT GEOPROBE			8. DATE STARTED 1/15/2008		9. DATE COMPLETED 1/15/2008		
			10. TOTAL DEPTH OF HOLE 24 feet				
11. OVERBURDEN THICKNESS			12. DEPTH GROUNDWATER ENCOUNTERED				
13. DEPTH DRILLED INTO ROCK			14. SIGNATURE OF INSPECTOR				
15. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)			
			9 - 24 ft				
ELEV	DEPTH FT.	DESCRIPTION OF MATERIALS		PID READINGS	REMARKS		
	2	SILT, brown, sandy, clayey grading downward to white, sandy, CLAY		NA	100% recovery		
	4						
	6	CLAY, gray, micaceous, "slippery", with large quartz fragments at top of core. Underlain from 6 to 8 ft by SILT, brown, underlain by black weathered mica (fault gouge ?)		NA	100% recovery		
	8						
	10	SILT, micaceous, "slippery", underlain from 8 to 10 ft by black to brown SILT, highly micaceous, wet 10 to 12 ft, slightly foliated at bottom of core		NA	100 % recovery		
	12						
	14	SILT, dark brown, highly micaceous, saturated		NA	40% recovery		
	16						
	18	SILT, clayey to silty CLAY, tan to dark brown, micaceous, wet at top, friable		NA	100% recovery		
	20						
	22	weathered GNEISS, inclined foliation		NA	100% recovery		
	24						
	26						
	28						
	30						
	32						
	34						

<div style="display: flex; justify-content: space-between;"> BORING LOG START ID MGGC-SB-20 </div> <div style="display: flex; justify-content: space-between;"> DRAFT HOLE ID mgSB-09 </div>				
1. COMPANY NAME Lockheed Martin/REAC		2. DRILLING SUBCONTRACTOR Enviroprobe Integrated Solutions		SHEET 1 OF 1 SHEETS
3. PROJECT Mills Gap Road		4. LOCATION: Ashville, NC		
5. NAME OF DRILLER		6. HOLE LOCATION: 108 Jasmine		
7. TYPE OF DRILLING EQUIPMENT GEOPROBE		8. DATE STARTED 12/13/2007	9. DATE COMPLETED 12/13/2007	
11. OVERBURDEN THICKNESS		10. TOTAL DEPTH OF HOLE 30feet		
13. DEPTH DRILLED INTO ROCK		12. DEPTH GROUNDWATER ENCOUNTERED		
14. SIGNATURE OF INSPECTOR				
15. DISPOSITION OF HOLE		<div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px;">BACKFILLED X</div> <div style="border: 1px solid black; padding: 2px;">MONITORING WELL</div> <div style="border: 1px solid black; padding: 2px;">OTHER (SPECIFY)</div> </div>		
ELEV	DEPTH FT.	DESCRIPTION OF MATERIALS	PID READINGS	REMARKS
	2	0 - 2: fill	0	80% recovery
	4	2 - 5: SILT, brown, micaceous, dry		
	6	SILT, brown with mottled gray and brown clay lenses		80% recovery
	8	moist	0	
	10			
	12	10 - 12: perched water		100% recovery
	14	10 - 15: SILT, brown, micaceous, foliated near bottom of core	0	
	16			
	18	SILT, light brown, micaceous, foliated with lenses of weathered mica, wet from perched water in previous interval.	0	100% recovery
	20			
	22	SAPROLITE (weathered schist), inclined foliation, micaceous, dry	0	55% rcovery
	24			
	26	SAPROLITE, foliated, near refusal, dry		70% recovery
	28	TD	0	
	30			
	32			
	34			

<div style="display: flex; justify-content: space-between;"> BORING LOG START ID MGGC-SB-21 </div> <div style="display: flex; justify-content: space-between;"> DRAFT HOLE ID mgSB-10 </div>				
1. COMPANY NAME Lockheed Martin/REAC		2. DRILLING SUBCONTRACTOR Enviroprobe Integrated Solutions		SHEET 1 OF 1 SHEETS
3. PROJECT Mills Gap Road		4. LOCATION: Ashville, NC		
5. NAME OF DRILLER		6. HOLE LOCATION: 108 Silk Tree Lane		
7. TYPE OF DRILLING EQUIPMENT GEOPROBE		8. DATE STARTED 12/13/2007	9. DATE COMPLETED 12/13/2007	
11. OVERBURDEN THICKNESS		10. TOTAL DEPTH OF HOLE 20 feet		
13. DEPTH DRILLED INTO ROCK		12. DEPTH GROUNDWATER ENCOUNTERED		
14. SIGNATURE OF INSPECTOR		15. DISPOSITION OF HOLE		
		BACKFILLED X	MONITORING WELL	OTHER (SPECIFY)

ELEV	DEPTH FT.	DESCRIPTION OF MATERIALS	PID READINGS	REMARKS
	2	SILT, brown, slightly clayey, dry	0	100% recovery
	4			
	6	SILT, sandy, gray-brown, slightly clayey, dry, some quartz fragments in bottom of core	0	100% recovery
	8			
	10			
	12	10 - 12.5: CLAY, gray, micaceous	0	100% recovery
	14	12.5 - 15: soft bedrock - banded gneiss or schist, strongly foliated, dry		
	16			
	18	15 - 16.5: CLAY, silty, sandy, wet	0	100% recovery
	20	16.5-20: banded gneiss or schist, foliated, weathered, dry TD		
	22			
	24			
	26			
	28			
	30			
	32			
	34			

APPENDIX F
ANALYTICAL DATA
(285 Pages)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

January 25, 2008

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 08-0156, Mills Gap Road Groundwater Contamination
Superfund Remedial

FROM: Denise Goddard
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: David Dorian

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:

Method Used:

Classical/Nutrient Analyses (CNA)

Cyanide

CLP Inorganics

Total Metals (TMTL)

Total Mercury

CLP Inorganics

Total Metals

CLP Inorganics



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980 College Station Road, Athens, Georgia 30605-2700
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Report Narrative for Work Order C080204, Project: 08-0156
Data Review and Validation Report
Site Name: Mills Gap Road Groundwater Contamination, Asheville, NC
Case No. 37100, Project No. 08-0156, Work Order No. C080204
ELEMENT Sample Nos.: C080204-01 - C080204-16 and C080204-22 - C080204-25
Sampling Dates: 12/12-14/07
Inorganic Analysis: DataChem Laboratories, Salt Lake City, UT
Date Received from Lab: 01/07/08
Analyses conducted: Total metals, mercury, and cyanide

The ESAT Work Team has reviewed the above-captioned CLP data package consisting of 10 water and 10 soil samples for Total Metals analysis by ICP-AES and cyanide analysis by SOW ILM05.3, according to the contract Statement of Work and EPA guidelines. This package presents acceptable contractual and technical performance with qualifications. Further details are provided below and in the attached review summary form.

Examination of blank samples revealed apparent low-level contamination with several elements listed in Table 1 (attached to hardcopy validation report). Reported detection limits were adjusted as high as five times blank levels to discount possible false positives due to contamination.

ICP-AES Analysis

Soil matrix spiked sample recoveries for arsenic and selenium were 51 and 38% respectively. All soil sample results for arsenic and selenium were considered estimated and flagged "J".

Soil matrix spiked sample recovery for lead was -103%. All positive soil sample results for lead were considered estimated and flagged "J". All non-detected soil sample results for lead were considered unusable and flagged "R".

Soil performance evaluation sample recovery for chromium was scored as warning high by the web-based SPS Web software. All positive soil sample results for chromium were considered estimated and flagged "J".

Percent relative standard deviations were greater than 20% for plasma multiple exposures and reported results were greater than the method detection limit, but less than the contract required quantitation limit for arsenic in sample C080204-05, lead in sample C080204-02, and selenium in samples C080204-05, 06, 08, 13, and 14. The above sample result was suspected of being a potential false positive and, hence, unusable and flagged "R".

Mercury Analysis

The water performance evaluation sample result for mercury (MD4DS1) was reported as 0.029J and scored as action low by the web-based SPS Web software. It appears that the sample preparation technician may have taken the mercury sample from the metals PE sample rather than from the mercury PE sample provided to the



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laboratory. As a result, the water mercury performance evaluation sample was not used to qualify any mercury data for water samples.

cc: Nardina Turner



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SAMPLES INCLUDED IN THIS REPORT

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected	Date Received
MGGC-GW-02	C080204-01	4DS7	4DS7	Groundwater	12/14/07 10:40	12/15/07 16:36
MGGC-GW-03	C080204-02	4DS8	4DS8	Groundwater	12/14/07 11:50	12/15/07 16:36
MGGC-GW-016	C080204-03	4DW1	4DW1	Groundwater	12/14/07 11:50	12/15/07 16:36
MGGC-RB-01	C080204-04	4DW5	4DW5	Equipment Rinse Blank	12/12/07 13:30	12/15/07 16:36
MGGC-SB-01	C080204-05	4DW7	4DW7	Subsurface Soil	12/12/07 11:45	12/15/07 16:36
MGGC-SB-02	C080204-06	4E18	4E18	Subsurface Soil	12/12/07 14:00	12/15/07 16:36
MGGC-SB-022	C080204-07	4E21	4E21	Subsurface Soil	12/12/07 14:00	12/15/07 16:36
MGGC-SB-03	C080204-08	4E24	4E24	Subsurface Soil	12/12/07 14:25	12/15/07 16:36
MGGC-MB-01	C080204-09	4DS5		CLP Metals Blank	12/13/07 09:30	12/15/07 16:36
MGGC-GW-01	C080204-10	4DS6	4DS6	Groundwater	12/13/07 11:55	12/15/07 16:36
MGGC-PB-01	C080204-11	4DW4		Preservative Blank	12/13/07 09:40	12/15/07 16:36
MGGC-RB-02	C080204-12	4DW6	4DW6	Groundwater	12/13/07 14:00	12/15/07 16:36
MGGC-SB-010	C080204-13	4DW8	4DW8	Subsurface Soil	12/13/07 15:40	12/15/07 16:36
MGGC-SB-020	C080204-14	4E19	4E19	Subsurface Soil	12/13/07 10:05	12/15/07 16:36
MGGC-SB-021	C080204-15	4E20	4E20	Subsurface Soil	12/13/07 11:25	12/15/07 16:36
MGGC-SB-08	C080204-16	4E29	4E29	Subsurface Soil	12/13/07 16:30	12/15/07 16:36



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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
B-1	Analyte is found in the associated blank as well as in the sample (CLP B-flag).
CLP01	Concentration reported is less than the lowest standard on calibration curve
CLP03	Baseline instability in calibration or preparation blanks
CLP04	Analyte reported as potential false positive (% RSD > 20%, and result > MDL, but < CRQL)
CLP07	PE sample recovery outside warning limits.
CLP14	The analysis did not indicate the presence of the analyte. The data is rejected and the reported value is the Reporting Limit. Resampling and reanalysis are necessary to confirm or deny the presence of the analyte.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than MDL but less than MRL.
QM-1	Matrix Spike Recovery less than method control limits
QM-6	Matrix Spike Recovery less than 10%
R	The presence or absence of the analyte can not be determined from the data due to severe quality control problems. The data are rejected and considered unusable.

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - The analyte concentration which corresponds to the lowest quantitative point on the calibration curve or the lowest demonstrated level of acceptable quantitation.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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Total Metals

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-GW-02

Lab ID: C080204-01

MD No: 4DS7 DATAC

Station ID:

Matrix: Groundwater

D No: 4DS7 KAP

Date Collected: 12/14/07 10:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.020	U, J, Q-2, CLP03	ug/L	0.20	12/31/07	12/31/07	CLP ILM05.4 CV
7440-38-2	Arsenic	11	U	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P
7440-39-3	Barium	37	J, Q-2	ug/L	220	12/19/07	1/01/08	CLP ILM05.4 P
7440-43-9	Cadmium	5.6	U	ug/L	5.6	12/19/07	1/01/08	CLP ILM05.4 P
7440-47-3	Chromium	11	U	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P
7439-92-1	Lead	11	U	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P
7782-49-2	Selenium	39	U	ug/L	39	12/19/07	1/01/08	CLP ILM05.4 P
7440-22-4	Silver	11	U	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P



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Classical/Nutrient Analyses

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-GW-02

Lab ID: C080204-01

MD No: 4DS7 DATAC

Station ID:

Matrix: Groundwater

D No: 4DS7 KAP

Date Collected: 12/14/07 10:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
57-12-5	Cyanide	10	U	ug/L	10	12/18/07	12/19/07	CLP ILM05.4 AS



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Total Metals

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-GW-03

Lab ID: C080204-02

MD No: 4DS8 DATAC

Station ID:

Matrix: Groundwater

D No: 4DS8 KAP

Date Collected: 12/14/07 11:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.031	U, J, Q-2, CLP03	ug/L	0.20	12/31/07	12/31/07	CLP ILM05.4 CV
7440-38-2	Arsenic	11	U	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P
7440-39-3	Barium	34	J, Q-2	ug/L	220	12/19/07	1/01/08	CLP ILM05.4 P
7440-43-9	Cadmium	5.6	U	ug/L	5.6	12/19/07	1/01/08	CLP ILM05.4 P
7440-47-3	Chromium	1.9	J, Q-2	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P
7439-92-1	Lead	2.2	R, Q-2, CLP04	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P
7782-49-2	Selenium	39	U	ug/L	39	12/19/07	1/01/08	CLP ILM05.4 P
7440-22-4	Silver	11	U	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P



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Classical/Nutrient Analyses

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-GW-03

Lab ID: C080204-02

MD No: 4DS8 DATAC

Station ID:

Matrix: Groundwater

D No: 4DS8 KAP

Date Collected: 12/14/07 11:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
57-12-5	Cyanide	10	U	ug/L	10	12/18/07	12/19/07	CLP ILM05.4 AS



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Total Metals

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-GW-016

Lab ID: C080204-03

MD No: 4DW1 DATAC

Station ID:

Matrix: Groundwater

D No: 4DW1 KAP

Date Collected: 12/14/07 11:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.025	U, J, Q-2, CLP03	ug/L	0.20	12/31/07	12/31/07	CLP ILM05.4 CV
7440-38-2	Arsenic	11	U	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P
7440-39-3	Barium	38	J, Q-2	ug/L	220	12/19/07	1/01/08	CLP ILM05.4 P
7440-43-9	Cadmium	5.6	U	ug/L	5.6	12/19/07	1/01/08	CLP ILM05.4 P
7440-47-3	Chromium	2.4	J, Q-2	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P
7439-92-1	Lead	11	U	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P
7782-49-2	Selenium	39	U	ug/L	39	12/19/07	1/01/08	CLP ILM05.4 P
7440-22-4	Silver	11	U	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P



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Classical/Nutrient Analyses

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-GW-016

Lab ID: C080204-03

MD No: 4DW1 DATAC

Station ID:

Matrix: Groundwater

D No: 4DW1 KAP

Date Collected: 12/14/07 11:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
57-12-5	Cyanide	10	U	ug/L	10	12/18/07	12/19/07	CLP ILM05.4 AS



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Total Metals

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-RB-01

Lab ID: C080204-04

MD No: 4DW5 DATAC

Station ID:

Matrix: Equipment Rinse Blank

D No: 4DW5 KAP

Date Collected: 12/12/07 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.20	U	ug/L	0.20	12/31/07	12/31/07	CLP ILM05.4 CV
7440-38-2	Arsenic	11	U	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P
7440-39-3	Barium	0.73	U, J, Q-2, B-1	ug/L	220	12/19/07	1/01/08	CLP ILM05.4 P
7440-43-9	Cadmium	5.6	U	ug/L	5.6	12/19/07	1/01/08	CLP ILM05.4 P
7440-47-3	Chromium	11	U	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P
7439-92-1	Lead	11	U	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P
7782-49-2	Selenium	39	U	ug/L	39	12/19/07	1/01/08	CLP ILM05.4 P
7440-22-4	Silver	11	U	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P



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Classical/Nutrient Analyses

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-RB-01

Lab ID: C080204-04

MD No: 4DW5 DATAC

Station ID:

Matrix: Equipment Rinse Blank

D No: 4DW5 KAP

Date Collected: 12/12/07 13:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
57-12-5	Cyanide	10	U	ug/L	10	12/18/07	12/19/07	CLP ILM05.4 AS



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Total Metals

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-01

Lab ID: C080204-05

MD No: 4DW7 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4DW7 KAP

Date Collected: 12/12/07 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.11	U	mg/kg dry	0.11	12/31/07	12/31/07	CLP ILM05.4 CV
7440-38-2	Arsenic	0.48	R, Q-2, CLP04, QM-1	mg/kg dry	1.1	12/21/07	1/02/08	CLP ILM05.4 P
7440-39-3	Barium	54		mg/kg dry	22	12/21/07	1/02/08	CLP ILM05.4 P
7440-43-9	Cadmium	0.56	U	mg/kg dry	0.56	12/21/07	1/02/08	CLP ILM05.4 P
7440-47-3	Chromium	16	J, CLP07	mg/kg dry	1.1	12/21/07	1/02/08	CLP ILM05.4 P
7439-92-1	Lead	17	J, QM-6	mg/kg dry	1.1	12/21/07	1/02/08	CLP ILM05.4 P
7782-49-2	Selenium	0.38	R, Q-2, CLP04, QM-1	mg/kg dry	3.9	12/21/07	1/02/08	CLP ILM05.4 P
7440-22-4	Silver	0.14	J, Q-2	mg/kg dry	1.1	12/21/07	1/02/08	CLP ILM05.4 P



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Classical/Nutrient Analyses

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-01

Lab ID: C080204-05

MD No: 4DW7 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4DW7 KAP

Date Collected: 12/12/07 11:45

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	90		%		12/21/07	12/21/07	CLP Inorganics
57-12-5	Cyanide	2.8	U	mg/kg dry	2.8	12/21/07	12/21/07	CLP ILM05.4 AS



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Total Metals

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-02

Lab ID: C080204-06

MD No: 4E18 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E18 KAP

Date Collected: 12/12/07 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.037	U, J, Q-2, CLP01	mg/kg dry	0.11	12/31/07	12/31/07	CLP ILM05.4 CV
7440-38-2	Arsenic	2.1	J, QM-1	mg/kg dry	1.1	12/21/07	1/02/08	CLP ILM05.4 P
7440-39-3	Barium	110		mg/kg dry	23	12/21/07	1/02/08	CLP ILM05.4 P
7440-43-9	Cadmium	0.57	U	mg/kg dry	0.57	12/21/07	1/02/08	CLP ILM05.4 P
7440-47-3	Chromium	53	J, CLP07	mg/kg dry	1.1	12/21/07	1/02/08	CLP ILM05.4 P
7439-92-1	Lead	11	J, QM-6	mg/kg dry	1.1	12/21/07	1/02/08	CLP ILM05.4 P
7782-49-2	Selenium	1.1	R, Q-2, CLP04, QM-1	mg/kg dry	4.0	12/21/07	1/02/08	CLP ILM05.4 P
7440-22-4	Silver	1.1	U	mg/kg dry	1.1	12/21/07	1/02/08	CLP ILM05.4 P



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Classical/Nutrient Analyses

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-02

Lab ID: C080204-06

MD No: 4E18 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E18 KAP

Date Collected: 12/12/07 14:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	88		%		12/21/07	12/21/07	CLP Inorganics
57-12-5	Cyanide	2.8	U	mg/kg dry	2.8	12/21/07	12/21/07	CLP ILM05.4 AS



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D.A.R.T. Id: 08-0156

Total Metals

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-022

Lab ID: C080204-07

MD No: 4E21 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E21 KAP

Date Collected: 12/12/07 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.033	U, J, Q-2, CLP01	mg/kg dry	0.12	12/31/07	12/31/07	CLP ILM05.4 CV
7440-38-2	Arsenic	2.5	J, QM-1	mg/kg dry	1.2	12/21/07	1/02/08	CLP ILM05.4 P
7440-39-3	Barium	120		mg/kg dry	24	12/21/07	1/02/08	CLP ILM05.4 P
7440-43-9	Cadmium	0.60	U	mg/kg dry	0.60	12/21/07	1/02/08	CLP ILM05.4 P
7440-47-3	Chromium	55		mg/kg dry	1.2	12/21/07	1/02/08	CLP ILM05.4 P
7439-92-1	Lead	12	J, QM-6	mg/kg dry	1.2	12/21/07	1/02/08	CLP ILM05.4 P
7782-49-2	Selenium	1.6	J, Q-2, QM-1	mg/kg dry	4.2	12/21/07	1/02/08	CLP ILM05.4 P
7440-22-4	Silver	1.2	U	mg/kg dry	1.2	12/21/07	1/02/08	CLP ILM05.4 P



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Classical/Nutrient Analyses

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-022

Lab ID: C080204-07

MD No: 4E21 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E21 KAP

Date Collected: 12/12/07 14:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	83		%		12/21/07	12/21/07	CLP Inorganics
57-12-5	Cyanide	3.0	U	mg/kg dry	3.0	12/21/07	12/21/07	CLP ILM05.4 AS



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Total Metals

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-03

Lab ID: C080204-08

MD No: 4E24 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E24 KAP

Date Collected: 12/12/07 14:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.048	U, J, Q-2, CLP01	mg/kg dry	0.13	12/31/07	12/31/07	CLP ILM05.4 CV
7440-38-2	Arsenic	2.7	J, QM-1	mg/kg dry	1.3	12/21/07	1/02/08	CLP ILM05.4 P
7440-39-3	Barium	130		mg/kg dry	26	12/21/07	1/02/08	CLP ILM05.4 P
7440-43-9	Cadmium	0.64	U	mg/kg dry	0.64	12/21/07	1/02/08	CLP ILM05.4 P
7440-47-3	Chromium	36	J, CLP07	mg/kg dry	1.3	12/21/07	1/02/08	CLP ILM05.4 P
7439-92-1	Lead	16	J, QM-6	mg/kg dry	1.3	12/21/07	1/02/08	CLP ILM05.4 P
7782-49-2	Selenium	1.2	R, Q-2, CLP04, QM-1	mg/kg dry	4.5	12/21/07	1/02/08	CLP ILM05.4 P
7440-22-4	Silver	1.3	U	mg/kg dry	1.3	12/21/07	1/02/08	CLP ILM05.4 P



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Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-03

Lab ID: C080204-08

MD No: 4E24 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E24 KAP

Date Collected: 12/12/07 14:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	78		%		12/21/07	12/21/07	CLP Inorganics
57-12-5	Cyanide	3.2	U	mg/kg dry	3.2	12/21/07	12/21/07	CLP ILM05.4 AS



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Total Metals

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-MB-01

Lab ID: C080204-09

MD No: 4DS5 DATAC

Station ID:

Matrix: CLP Metals Blank

D No:

Date Collected: 12/13/07 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.20	U	ug/L	0.20	1/02/08	1/03/08	CLP ILM05.4 CV
7440-38-2	Arsenic	11	U	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P
7440-39-3	Barium	0.74	J	ug/L	220	12/19/07	1/01/08	CLP ILM05.4 P
7440-43-9	Cadmium	5.6	U	ug/L	5.6	12/19/07	1/01/08	CLP ILM05.4 P
7440-47-3	Chromium	11	U	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P
7439-92-1	Lead	11	U	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P
7782-49-2	Selenium	39	U	ug/L	39	12/19/07	1/01/08	CLP ILM05.4 P
7440-22-4	Silver	11	U	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P



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Total Metals

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-GW-01

Lab ID: C080204-10

MD No: 4DS6 DATAC

Station ID:

Matrix: Groundwater

D No: 4DS6 KAP

Date Collected: 12/13/07 11:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.20	U	ug/L	0.20	1/02/08	1/03/08	CLP ILM05.4 CV
7440-38-2	Arsenic	11	U	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P
7440-39-3	Barium	72	J, Q-2	ug/L	220	12/19/07	1/01/08	CLP ILM05.4 P
7440-43-9	Cadmium	5.6	U	ug/L	5.6	12/19/07	1/01/08	CLP ILM05.4 P
7440-47-3	Chromium	11	U	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P
7439-92-1	Lead	11	U	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P
7782-49-2	Selenium	39	U	ug/L	39	12/19/07	1/01/08	CLP ILM05.4 P
7440-22-4	Silver	11	U	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P



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Classical/Nutrient Analyses

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-GW-01

Lab ID: C080204-10

MD No: 4DS6 DATAC

Station ID:

Matrix: Groundwater

D No: 4DS6 KAP

Date Collected: 12/13/07 11:55

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
57-12-5	Cyanide	10	U	ug/L	10	12/18/07	12/19/07	CLP ILM05.4 AS



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Total Metals

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Contract Lab Case: 37100

Sample ID: MGGC-PB-01

Lab ID: C080204-11

MD No: 4DW4 DATAC

Station ID:

Matrix: Preservative Blank

D No:

Date Collected: 12/13/07 9:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.20	U	ug/L	0.20	1/02/08	1/03/08	CLP ILM05.4 CV
7440-38-2	Arsenic	11	U	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P
7440-39-3	Barium	0.83	U, J, Q-2, B-1	ug/L	220	12/19/07	1/01/08	CLP ILM05.4 P
7440-43-9	Cadmium	5.6	U	ug/L	5.6	12/19/07	1/01/08	CLP ILM05.4 P
7440-47-3	Chromium	11	U	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P
7439-92-1	Lead	11	U	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P
7782-49-2	Selenium	39	U	ug/L	39	12/19/07	1/01/08	CLP ILM05.4 P
7440-22-4	Silver	11	U	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P



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Classical/Nutrient Analyses

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-PB-01

Lab ID: C080204-11

MD No: 4DW4 DATAC

Station ID:

Matrix: Preservative Blank

D No:

Date Collected: 12/13/07 9:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
57-12-5	Cyanide	10	U	ug/L	10	12/18/07	12/19/07	CLP ILM05.4 AS



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Total Metals

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-RB-02

Lab ID: C080204-12

MD No: 4DW6 DATAC

Station ID:

Matrix: Groundwater

D No: 4DW6 KAP

Date Collected: 12/13/07 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.20	U	ug/L	0.20	1/02/08	1/03/08	CLP ILM05.4 CV
7440-38-2	Arsenic	11	U	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P
7440-39-3	Barium	10	J, Q-2	ug/L	220	12/19/07	1/01/08	CLP ILM05.4 P
7440-43-9	Cadmium	5.6	U	ug/L	5.6	12/19/07	1/01/08	CLP ILM05.4 P
7440-47-3	Chromium	3.3	J, Q-2	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P
7439-92-1	Lead	11	U	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P
7782-49-2	Selenium	39	U	ug/L	39	12/19/07	1/01/08	CLP ILM05.4 P
7440-22-4	Silver	11	U	ug/L	11	12/19/07	1/01/08	CLP ILM05.4 P



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Project: 08-0156, Mills Gap Road Groundwater Contamination

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Sample ID: MGGC-RB-02

Lab ID: C080204-12

MD No: 4DW6 DATAC

Station ID:

Matrix: Groundwater

D No: 4DW6 KAP

Date Collected: 12/13/07 14:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
57-12-5	Cyanide	10	U	ug/L	10	12/18/07	12/19/07	CLP ILM05.4 AS



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Total Metals

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Contract Lab Case: 37100

Sample ID: MGGC-SB-010

Lab ID: C080204-13

MD No: 4DW8 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4DW8 KAP

Date Collected: 12/13/07 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.12	U	mg/kg dry	0.12	12/31/07	12/31/07	CLP ILM05.4 CV
7440-38-2	Arsenic	4.3	J, QM-1	mg/kg dry	1.2	12/21/07	1/02/08	CLP ILM05.4 P
7440-39-3	Barium	210		mg/kg dry	24	12/21/07	1/02/08	CLP ILM05.4 P
7440-43-9	Cadmium	0.60	U	mg/kg dry	0.60	12/21/07	1/02/08	CLP ILM05.4 P
7440-47-3	Chromium	26	J, CLP07	mg/kg dry	1.2	12/21/07	1/02/08	CLP ILM05.4 P
7439-92-1	Lead	9.7	J, QM-6	mg/kg dry	1.2	12/21/07	1/02/08	CLP ILM05.4 P
7782-49-2	Selenium	0.61	R, Q-2, CLP04, QM-1	mg/kg dry	4.2	12/21/07	1/02/08	CLP ILM05.4 P
7440-22-4	Silver	1.2	U	mg/kg dry	1.2	12/21/07	1/02/08	CLP ILM05.4 P



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Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-010

Lab ID: C080204-13

MD No: 4DW8 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4DW8 KAP

Date Collected: 12/13/07 15:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	84		%		12/21/07	12/21/07	CLP Inorganics
57-12-5	Cyanide	3.0	U	mg/kg dry	3.0	12/21/07	12/21/07	CLP ILM05.4 AS



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Total Metals

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-020

Lab ID: C080204-14

MD No: 4E19 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E19 KAP

Date Collected: 12/13/07 10:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7439-97-6	Mercury	0.071	U, J, Q-2, CLP01	mg/kg dry	0.13	12/31/07	12/31/07	CLP ILM05.4 CV
7440-38-2	Arsenic	6.1	J, QM-1	mg/kg dry	1.3	12/21/07	1/02/08	CLP ILM05.4 P
7440-39-3	Barium	170		mg/kg dry	26	12/21/07	1/02/08	CLP ILM05.4 P
7440-43-9	Cadmium	0.64	U	mg/kg dry	0.64	12/21/07	1/02/08	CLP ILM05.4 P
7440-47-3	Chromium	46	J, CLP07	mg/kg dry	1.3	12/21/07	1/02/08	CLP ILM05.4 P
7439-92-1	Lead	13	J, QM-6	mg/kg dry	1.3	12/21/07	1/02/08	CLP ILM05.4 P
7782-49-2	Selenium	2.0	R, Q-2, CLP04, QM-1	mg/kg dry	4.5	12/21/07	1/02/08	CLP ILM05.4 P
7440-22-4	Silver	1.3	U	mg/kg dry	1.3	12/21/07	1/02/08	CLP ILM05.4 P



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Classical/Nutrient Analyses

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-020

Lab ID: C080204-14

MD No: 4E19 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E19 KAP

Date Collected: 12/13/07 10:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	78		%		12/21/07	12/21/07	CLP Inorganics
57-12-5	Cyanide	3.2	U	mg/kg dry	3.2	12/21/07	12/21/07	CLP ILM05.4 AS



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Total Metals

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Sample ID: MGGC-SB-021

Lab ID: C080204-15

MD No: 4E20 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E20 KAP

Date Collected: 12/13/07 11:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.14	U	mg/kg dry	0.14	12/31/07	12/31/07	CLP ILM05.4 CV
7440-38-2	Arsenic	2.2	J, QM-1	mg/kg dry	1.4	12/21/07	1/02/08	CLP ILM05.4 P
7440-39-3	Barium	110		mg/kg dry	28	12/21/07	1/02/08	CLP ILM05.4 P
7440-43-9	Cadmium	0.70	U	mg/kg dry	0.70	12/21/07	1/02/08	CLP ILM05.4 P
7440-47-3	Chromium	20	J, CLP07	mg/kg dry	1.4	12/21/07	1/02/08	CLP ILM05.4 P
7439-92-1	Lead	12	J, QM-6	mg/kg dry	1.4	12/21/07	1/02/08	CLP ILM05.4 P
7782-49-2	Selenium	0.68	J, Q-2, QM-1	mg/kg dry	4.9	12/21/07	1/02/08	CLP ILM05.4 P
7440-22-4	Silver	1.4	U	mg/kg dry	1.4	12/21/07	1/02/08	CLP ILM05.4 P



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Classical/Nutrient Analyses

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-021

Lab ID: C080204-15

MD No: 4E20 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E20 KAP

Date Collected: 12/13/07 11:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	72		%		12/21/07	12/21/07	CLP Inorganics
57-12-5	Cyanide	3.5	U	mg/kg dry	3.5	12/21/07	12/21/07	CLP ILM05.4 AS



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Total Metals

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-08

Lab ID: C080204-16

MD No: 4E29 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E29 KAP

Date Collected: 12/13/07 16:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.12	U	mg/kg dry	0.12	12/31/07	12/31/07	CLP ILM05.4 CV
7440-38-2	Arsenic	1.2	U, J, QM-1	mg/kg dry	1.2	12/21/07	1/02/08	CLP ILM05.4 P
7440-39-3	Barium	15	J, Q-2	mg/kg dry	24	12/21/07	1/02/08	CLP ILM05.4 P
7440-43-9	Cadmium	0.60	U	mg/kg dry	0.60	12/21/07	1/02/08	CLP ILM05.4 P
7440-47-3	Chromium	3.1	J, CLP07	mg/kg dry	1.2	12/21/07	1/02/08	CLP ILM05.4 P
7439-92-1	Lead	1.2	R, QM-6, CLP14	mg/kg dry	1.2	12/21/07	1/02/08	CLP ILM05.4 P
7782-49-2	Selenium	4.2	U, J, QM-1	mg/kg dry	4.2	12/21/07	1/02/08	CLP ILM05.4 P
7440-22-4	Silver	1.2	U	mg/kg dry	1.2	12/21/07	1/02/08	CLP ILM05.4 P



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Classical/Nutrient Analyses

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-08

Lab ID: C080204-16

MD No: 4E29 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E29 KAP

Date Collected: 12/13/07 16:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	83		%		12/21/07	12/21/07	CLP Inorganics
57-12-5	Cyanide	3.0	U	mg/kg dry	3.0	12/21/07	12/21/07	CLP ILM05.4 AS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

January 29, 2008

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 08-0205, Mills Gap Road Groundwater Contamination
Superfund Remedial

FROM: Kristin Trapp
OCS Chemist

THRU: Sallie Hale, Chief
ASB Organic Chemistry Section

TO: David Dorian

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and may have been qualified if the applicable quality control criteria were not met. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are representative only of the samples as received by the laboratory.

Analyses Included in this report:

Method Used:

Physical Properties (PHYSP)

Physical Properties

EPA 200.2

Volatile Organics (VOA)

Volatile organic compounds

EPA 8260C



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Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 90 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 90-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 90-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at Colquitt.Debbie@epa.gov, and provide a reason for holding samples beyond 90 days

cc: Nardina Turner



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

SAMPLES INCLUDED IN THIS REPORT

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
MGGC-RB-03	E080307-01	Equipment Rinse Blank	1/15/08 08:15	1/16/08 10:12
MGGC-STB-03	E080307-02	Trip Blank - Soil	1/15/08 08:40	1/16/08 10:12
MGGC-SB-09	E080307-03	Subsurface Soil	1/15/08 09:10	1/16/08 10:12
MGGC-SB-07	E080307-04	Subsurface Soil	1/15/08 11:05	1/16/08 10:12
MGGC-SB-023	E080307-05	Subsurface Soil	1/15/08 11:05	1/16/08 10:12
MGGC-WTB-04	E080307-06	Trip Blank - Water	1/15/08 11:40	1/16/08 10:12
MGGC-SB-016	E080307-07	Subsurface Soil	1/15/08 13:00	1/16/08 10:12
MGGC-RB-04	E080307-08	Equipment Rinse Blank	1/15/08 13:35	1/16/08 10:12
MGGC-SB-017	E080307-09	Subsurface Soil	1/15/08 14:15	1/16/08 10:12
MGGC-SB-05	E080307-10	Subsurface Soil	1/15/08 15:10	1/16/08 10:12
MGGC-SB-06	E080307-11	Subsurface Soil	1/15/08 15:35	1/16/08 10:12
MGGC-STB-04	E080307-12	Trip Blank - Soil	1/16/08 08:00	1/18/08 09:37
MGGC-SB-011	E080307-13	Subsurface Soil	1/16/08 10:15	1/18/08 09:37
MGGC-SB-04	E080307-14	Subsurface Soil	1/16/08 11:15	1/18/08 09:37
MGGC-GW-06	E080307-15	Groundwater	1/16/08 13:35	1/18/08 09:37
MGGC-WTB-05	E080307-16	Trip Blank - Water	1/16/08 15:00	1/18/08 09:37
MGGC-GW-04	E080307-17	Groundwater	1/16/08 14:40	1/18/08 09:37
MGGC-GW-017	E080307-18	Groundwater	1/16/08 14:40	1/18/08 09:37
MGGC-GW-05	E080307-19	Groundwater	1/16/08 15:40	1/18/08 09:37



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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
B-2	Reporting level elevated due to trace amounts of analyte present in the method blank.
H-4	Holding time expired prior to receipt by laboratory.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than MDL but less than MRL.
QC-1	Analyte concentration low in continuing calibration verification standard
QL-1	Laboratory Control Spike Recovery less than method control limits
QM-3	Matrix Spike Precision outside method control limits

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - The analyte concentration which corresponds to the lowest quantitative point on the calibration curve or the lowest demonstrated level of acceptable quantitation.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-RB-03

Lab ID: E080307-01

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 1/15/08 8:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	1/16/08	1/16/08	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	1/16/08	1/16/08	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	1/16/08	1/16/08	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	1/16/08	1/16/08	EPA 8260C
74-83-9	Bromomethane	2.0	U	ug/L	2.0	1/16/08	1/16/08	EPA 8260C



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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-RB-03

Lab ID: E080307-01

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 1/15/08 8:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
75-00-3	Chloroethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
67-66-3	Chloroform	0.81		ug/L	0.50	1/16/08	1/16/08	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
75-71-8	Dichlorodifluoromethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	1/16/08	1/16/08	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	1/16/08	1/16/08	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U	ug/L	4.0	1/16/08	1/16/08	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	1/16/08	1/16/08	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C



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D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-RB-03

Lab ID: E080307-01

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 1/15/08 8:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	1/16/08	1/16/08	EPA 8260C



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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-STB-03

Lab ID: E080307-02

Station ID:

Matrix: Trip Blank - Soil

Date Collected: 1/15/08 8:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	7.1	U, B-2	ug/kg dry	7.1	1/16/08	1/18/08	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	1.8	U, J, QC-1	ug/kg dry	1.8	1/16/08	1/18/08	EPA 8260C
71-55-6	1,1,1-Trichloroethane	1.8	U	ug/kg dry	1.8	1/16/08	1/18/08	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
75-34-3	1,1-Dichloroethane	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
563-58-6	1,1-Dichloropropene	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
96-18-4	1,2,3-Trichloropropane	1.8	U	ug/kg dry	1.8	1/16/08	1/18/08	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.46	U, B-2	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	9.1	U, J, QC-1	ug/kg dry	9.1	1/16/08	1/18/08	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.46	U, B-2	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
107-06-2	1,2-Dichloroethane	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
78-87-5	1,2-Dichloropropane	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.46	U, B-2	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
142-28-9	1,3-Dichloropropane	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
594-20-7	2,2-Dichloropropane	1.8	U	ug/kg dry	1.8	1/16/08	1/18/08	EPA 8260C
67-64-1	Acetone	9.1	U, B-2	ug/kg dry	9.1	1/16/08	1/18/08	EPA 8260C
71-43-2	Benzene	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
108-86-1	Bromobenzene	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
74-97-5	Bromochloromethane	0.91	U	ug/kg dry	0.91	1/16/08	1/18/08	EPA 8260C
75-27-4	Bromodichloromethane	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
75-25-2	Bromoform	9.1	U, J, QC-1	ug/kg dry	9.1	1/16/08	1/18/08	EPA 8260C
74-83-9	Bromomethane	1.8	U, B-2	ug/kg dry	1.8	1/16/08	1/18/08	EPA 8260C



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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-STB-03

Lab ID: E080307-02

Station ID:

Matrix: Trip Blank - Soil

Date Collected: 1/15/08 8:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-15-0	Carbon disulfide	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
56-23-5	Carbon Tetrachloride	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
108-90-7	Chlorobenzene	0.46	U, B-2	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
75-00-3	Chloroethane	9.1	U	ug/kg dry	9.1	1/16/08	1/18/08	EPA 8260C
67-66-3	Chloroform	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
74-87-3	Chloromethane	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	9.1	U	ug/kg dry	9.1	1/16/08	1/18/08	EPA 8260C
110-82-7	Cyclohexane	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
124-48-1	Dibromochloromethane	0.91	U, J, QC-1	ug/kg dry	0.91	1/16/08	1/18/08	EPA 8260C
74-95-3	Dibromomethane	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
75-71-8	Dichlorodifluoromethane	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
100-41-4	Ethyl Benzene	1.7	U, B-2	ug/kg dry	1.7	1/16/08	1/18/08	EPA 8260C
87-68-3	Hexachlorobutadiene	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
98-82-8	Isopropylbenzene	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
79-20-9	Methyl Acetate	1.8	U	ug/kg dry	1.8	1/16/08	1/18/08	EPA 8260C
591-78-6	Methyl Butyl Ketone	9.1	U	ug/kg dry	9.1	1/16/08	1/18/08	EPA 8260C
78-93-3	Methyl Ethyl Ketone	1.8	U	ug/kg dry	1.8	1/16/08	1/18/08	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	9.1	U	ug/kg dry	9.1	1/16/08	1/18/08	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
108-87-2	Methylcyclohexane	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
75-09-2	Methylene Chloride	2.6	U, B-2	ug/kg dry	2.6	1/16/08	1/18/08	EPA 8260C
104-51-8	n-Butylbenzene	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
103-65-1	n-Propylbenzene	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
95-49-8	o-Chlorotoluene	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
95-47-6	o-Xylene	2.3	U, B-2	ug/kg dry	2.3	1/16/08	1/18/08	EPA 8260C
106-43-4	p-Chlorotoluene	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
99-87-6	p-Isopropyltoluene	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
135-98-8	sec-Butylbenzene	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
100-42-5	Styrene	0.46	U, B-2	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
98-06-6	tert-Butylbenzene	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-STB-03

Lab ID: E080307-02

Station ID:

Matrix: Trip Blank - Soil

Date Collected: 1/15/08 8:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
108-88-3	Toluene	0.91	U, B-2	ug/kg dry	0.91	1/16/08	1/18/08	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.91	U	ug/kg dry	0.91	1/16/08	1/18/08	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
75-01-4	Vinyl chloride	0.46	U	ug/kg dry	0.46	1/16/08	1/18/08	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	9	U	ug/kg dry	9	1/16/08	1/18/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Physical Properties

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-STB-03

Lab ID: E080307-02

Station ID:

Matrix: Trip Blank - Soil

Date Collected: 1/15/08 8:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	90		%		1/24/08	1/25/08	EPA 200.2



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-09

Lab ID: E080307-03

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 9:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	7.0	U, B-2	ug/kg dry	7.0	1/16/08	1/18/08	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	1.8	U, J, QC-1	ug/kg dry	1.8	1/16/08	1/18/08	EPA 8260C
71-55-6	1,1,1-Trichloroethane	1.8	U	ug/kg dry	1.8	1/16/08	1/18/08	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
75-34-3	1,1-Dichloroethane	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
563-58-6	1,1-Dichloropropene	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
96-18-4	1,2,3-Trichloropropane	1.8	U	ug/kg dry	1.8	1/16/08	1/18/08	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	8.9	U, J, QC-1	ug/kg dry	8.9	1/16/08	1/18/08	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.44	U, B-2	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
107-06-2	1,2-Dichloroethane	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
78-87-5	1,2-Dichloropropane	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.44	U, B-2	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
142-28-9	1,3-Dichloropropane	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
594-20-7	2,2-Dichloropropane	1.8	U	ug/kg dry	1.8	1/16/08	1/18/08	EPA 8260C
67-64-1	Acetone	8.9	U, B-2	ug/kg dry	8.9	1/16/08	1/18/08	EPA 8260C
71-43-2	Benzene	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
108-86-1	Bromobenzene	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
74-97-5	Bromochloromethane	0.89	U	ug/kg dry	0.89	1/16/08	1/18/08	EPA 8260C
75-27-4	Bromodichloromethane	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
75-25-2	Bromoform	8.9	U, J, QC-1	ug/kg dry	8.9	1/16/08	1/18/08	EPA 8260C
74-83-9	Bromomethane	1.8	U, B-2	ug/kg dry	1.8	1/16/08	1/18/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-09

Lab ID: E080307-03

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 9:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-15-0	Carbon disulfide	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
56-23-5	Carbon Tetrachloride	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
108-90-7	Chlorobenzene	0.44	U, B-2	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
75-00-3	Chloroethane	8.9	U	ug/kg dry	8.9	1/16/08	1/18/08	EPA 8260C
67-66-3	Chloroform	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
74-87-3	Chloromethane	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	8.9	U	ug/kg dry	8.9	1/16/08	1/18/08	EPA 8260C
110-82-7	Cyclohexane	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
124-48-1	Dibromochloromethane	0.89	U, J, QC-1	ug/kg dry	0.89	1/16/08	1/18/08	EPA 8260C
74-95-3	Dibromomethane	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
75-71-8	Dichlorodifluoromethane	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
100-41-4	Ethyl Benzene	1.7	U, B-2	ug/kg dry	1.7	1/16/08	1/18/08	EPA 8260C
87-68-3	Hexachlorobutadiene	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
98-82-8	Isopropylbenzene	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
79-20-9	Methyl Acetate	1.8	U	ug/kg dry	1.8	1/16/08	1/18/08	EPA 8260C
591-78-6	Methyl Butyl Ketone	8.9	U	ug/kg dry	8.9	1/16/08	1/18/08	EPA 8260C
78-93-3	Methyl Ethyl Ketone	1.8	U	ug/kg dry	1.8	1/16/08	1/18/08	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	8.9	U	ug/kg dry	8.9	1/16/08	1/18/08	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
108-87-2	Methylcyclohexane	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
75-09-2	Methylene Chloride	0.52	U, B-2	ug/kg dry	0.52	1/16/08	1/18/08	EPA 8260C
104-51-8	n-Butylbenzene	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
103-65-1	n-Propylbenzene	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
95-49-8	o-Chlorotoluene	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
95-47-6	o-Xylene	2.2	U, B-2	ug/kg dry	2.2	1/16/08	1/18/08	EPA 8260C
106-43-4	p-Chlorotoluene	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
99-87-6	p-Isopropyltoluene	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
135-98-8	sec-Butylbenzene	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
100-42-5	Styrene	0.44	U, B-2	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
98-06-6	tert-Butylbenzene	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-09

Lab ID: E080307-03

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 9:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
108-88-3	Toluene	0.77	U, B-2	ug/kg dry	0.77	1/16/08	1/18/08	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.89	U	ug/kg dry	0.89	1/16/08	1/18/08	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
75-01-4	Vinyl chloride	0.44	U	ug/kg dry	0.44	1/16/08	1/18/08	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	9	U	ug/kg dry	9	1/16/08	1/18/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Physical Properties

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-09

Lab ID: E080307-03

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 9:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	77		%		1/24/08	1/25/08	EPA 200.2



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-07

Lab ID: E080307-04

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	14	U, B-2	ug/kg dry	14	1/16/08	1/18/08	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	2.3	U, J, QC-1	ug/kg dry	2.3	1/16/08	1/18/08	EPA 8260C
71-55-6	1,1,1-Trichloroethane	2.3	U	ug/kg dry	2.3	1/16/08	1/18/08	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
75-34-3	1,1-Dichloroethane	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
563-58-6	1,1-Dichloropropene	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
96-18-4	1,2,3-Trichloropropane	2.3	U	ug/kg dry	2.3	1/16/08	1/18/08	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	12	U, J, QC-1	ug/kg dry	12	1/16/08	1/18/08	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.35	U	ug/kg dry	0.35	1/16/08	1/18/08	EPA 8260C
107-06-2	1,2-Dichloroethane	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
78-87-5	1,2-Dichloropropane	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.70	U	ug/kg dry	0.70	1/16/08	1/18/08	EPA 8260C
142-28-9	1,3-Dichloropropane	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
594-20-7	2,2-Dichloropropane	2.3	U	ug/kg dry	2.3	1/16/08	1/18/08	EPA 8260C
67-64-1	Acetone	12	U, B-2	ug/kg dry	12	1/16/08	1/18/08	EPA 8260C
71-43-2	Benzene	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
108-86-1	Bromobenzene	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
74-97-5	Bromochloromethane	1.2	U	ug/kg dry	1.2	1/16/08	1/18/08	EPA 8260C
75-27-4	Bromodichloromethane	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
75-25-2	Bromoform	12	U, J, QC-1	ug/kg dry	12	1/16/08	1/18/08	EPA 8260C
74-83-9	Bromomethane	2.3	U, B-2	ug/kg dry	2.3	1/16/08	1/18/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-07

Lab ID: E080307-04

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-15-0	Carbon disulfide	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
56-23-5	Carbon Tetrachloride	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
108-90-7	Chlorobenzene	0.74	U, B-2	ug/kg dry	0.74	1/16/08	1/18/08	EPA 8260C
75-00-3	Chloroethane	12	U	ug/kg dry	12	1/16/08	1/18/08	EPA 8260C
67-66-3	Chloroform	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
74-87-3	Chloromethane	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	12	U	ug/kg dry	12	1/16/08	1/18/08	EPA 8260C
110-82-7	Cyclohexane	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
124-48-1	Dibromochloromethane	1.2	U, J, QC-1	ug/kg dry	1.2	1/16/08	1/18/08	EPA 8260C
74-95-3	Dibromomethane	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
75-71-8	Dichlorodifluoromethane	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
100-41-4	Ethyl Benzene	3.1	U, B-2	ug/kg dry	3.1	1/16/08	1/18/08	EPA 8260C
87-68-3	Hexachlorobutadiene	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
98-82-8	Isopropylbenzene	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
79-20-9	Methyl Acetate	2.3	U	ug/kg dry	2.3	1/16/08	1/18/08	EPA 8260C
591-78-6	Methyl Butyl Ketone	12	U	ug/kg dry	12	1/16/08	1/18/08	EPA 8260C
78-93-3	Methyl Ethyl Ketone	2.3	U	ug/kg dry	2.3	1/16/08	1/18/08	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	12	U	ug/kg dry	12	1/16/08	1/18/08	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
108-87-2	Methylcyclohexane	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
75-09-2	Methylene Chloride	3.4	U, B-2	ug/kg dry	3.4	1/16/08	1/18/08	EPA 8260C
104-51-8	n-Butylbenzene	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
103-65-1	n-Propylbenzene	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
95-49-8	o-Chlorotoluene	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
95-47-6	o-Xylene	4.0	U, B-2	ug/kg dry	4.0	1/16/08	1/18/08	EPA 8260C
106-43-4	p-Chlorotoluene	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
99-87-6	p-Isopropyltoluene	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
135-98-8	sec-Butylbenzene	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
100-42-5	Styrene	0.58	U, B-2	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
98-06-6	tert-Butylbenzene	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-07

Lab ID: E080307-04

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 11:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
108-88-3	Toluene	1.7	U, B-2	ug/kg dry	1.7	1/16/08	1/18/08	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	1.2	U	ug/kg dry	1.2	1/16/08	1/18/08	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
75-01-4	Vinyl chloride	0.58	U	ug/kg dry	0.58	1/16/08	1/18/08	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/kg dry	10	1/16/08	1/18/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Physical Properties

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-07

Lab ID: E080307-04

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 11:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	85		%		1/24/08	1/25/08	EPA 200.2



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-023

Lab ID: E080307-05

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.1	U, B-2	ug/kg dry	5.1	1/16/08	1/18/08	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	2.2	U, J, QC-1	ug/kg dry	2.2	1/16/08	1/18/08	EPA 8260C
71-55-6	1,1,1-Trichloroethane	2.2	U	ug/kg dry	2.2	1/16/08	1/18/08	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
75-34-3	1,1-Dichloroethane	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
563-58-6	1,1-Dichloropropene	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
96-18-4	1,2,3-Trichloropropane	2.2	U	ug/kg dry	2.2	1/16/08	1/18/08	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	11	U, J, QC-1	ug/kg dry	11	1/16/08	1/18/08	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.56	U, B-2	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
107-06-2	1,2-Dichloroethane	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
78-87-5	1,2-Dichloropropane	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.56	U, B-2	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
142-28-9	1,3-Dichloropropane	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
594-20-7	2,2-Dichloropropane	2.2	U	ug/kg dry	2.2	1/16/08	1/18/08	EPA 8260C
67-64-1	Acetone	11	U, B-2	ug/kg dry	11	1/16/08	1/18/08	EPA 8260C
71-43-2	Benzene	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
108-86-1	Bromobenzene	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
74-97-5	Bromochloromethane	1.1	U	ug/kg dry	1.1	1/16/08	1/18/08	EPA 8260C
75-27-4	Bromodichloromethane	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
75-25-2	Bromoform	11	U, J, QC-1	ug/kg dry	11	1/16/08	1/18/08	EPA 8260C
74-83-9	Bromomethane	2.2	U, B-2	ug/kg dry	2.2	1/16/08	1/18/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-023

Lab ID: E080307-05

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-15-0	Carbon disulfide	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
56-23-5	Carbon Tetrachloride	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
108-90-7	Chlorobenzene	0.56	U, B-2	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
75-00-3	Chloroethane	11	U	ug/kg dry	11	1/16/08	1/18/08	EPA 8260C
67-66-3	Chloroform	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
74-87-3	Chloromethane	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	11	U	ug/kg dry	11	1/16/08	1/18/08	EPA 8260C
110-82-7	Cyclohexane	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
124-48-1	Dibromochloromethane	1.1	U, J, QC-1	ug/kg dry	1.1	1/16/08	1/18/08	EPA 8260C
74-95-3	Dibromomethane	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
75-71-8	Dichlorodifluoromethane	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
100-41-4	Ethyl Benzene	1.2	U, B-2	ug/kg dry	1.2	1/16/08	1/18/08	EPA 8260C
87-68-3	Hexachlorobutadiene	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
98-82-8	Isopropylbenzene	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
79-20-9	Methyl Acetate	2.2	U	ug/kg dry	2.2	1/16/08	1/18/08	EPA 8260C
591-78-6	Methyl Butyl Ketone	11	U	ug/kg dry	11	1/16/08	1/18/08	EPA 8260C
78-93-3	Methyl Ethyl Ketone	2.2	U	ug/kg dry	2.2	1/16/08	1/18/08	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	11	U	ug/kg dry	11	1/16/08	1/18/08	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
108-87-2	Methylcyclohexane	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
75-09-2	Methylene Chloride	0.56	U, B-2	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
104-51-8	n-Butylbenzene	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
103-65-1	n-Propylbenzene	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
95-49-8	o-Chlorotoluene	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
95-47-6	o-Xylene	1.6	U, B-2	ug/kg dry	1.6	1/16/08	1/18/08	EPA 8260C
106-43-4	p-Chlorotoluene	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
99-87-6	p-Isopropyltoluene	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
135-98-8	sec-Butylbenzene	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
100-42-5	Styrene	0.56	U, B-2	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
98-06-6	tert-Butylbenzene	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-023

Lab ID: E080307-05

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 11:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
108-88-3	Toluene	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	1.1	U	ug/kg dry	1.1	1/16/08	1/18/08	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
75-01-4	Vinyl chloride	0.56	U	ug/kg dry	0.56	1/16/08	1/18/08	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/kg dry	10	1/16/08	1/18/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Physical Properties

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-023

Lab ID: E080307-05

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 11:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	86		%		1/24/08	1/25/08	EPA 200.2



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-WTB-04

Lab ID: E080307-06

Station ID:

Matrix: Trip Blank - Water

Date Collected: 1/15/08 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	1/16/08	1/16/08	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	1/16/08	1/16/08	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	1/16/08	1/16/08	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	1/16/08	1/16/08	EPA 8260C
74-83-9	Bromomethane	2.0	U	ug/L	2.0	1/16/08	1/16/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-WTB-04

Lab ID: E080307-06

Station ID:

Matrix: Trip Blank - Water

Date Collected: 1/15/08 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
75-00-3	Chloroethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
67-66-3	Chloroform	0.99		ug/L	0.50	1/16/08	1/16/08	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
75-71-8	Dichlorodifluoromethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	1/16/08	1/16/08	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	1/16/08	1/16/08	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U	ug/L	4.0	1/16/08	1/16/08	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	1/16/08	1/16/08	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
75-09-2	Methylene Chloride	0.11	J, Q-2	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-WTB-04

Lab ID: E080307-06

Station ID:

Matrix: Trip Blank - Water

Date Collected: 1/15/08 11:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	1/16/08	1/16/08	EPA 8260C



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-016

Lab ID: E080307-07

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 13:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
R4-7156	(m- and/or p-)Xylene	4.5	U, B-2	ug/kg dry	4.5	1/16/08	1/18/08	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	1.9	U, J, QC-1	ug/kg dry	1.9	1/16/08	1/18/08	EPA 8260C
71-55-6	1,1,1-Trichloroethane	1.9	U	ug/kg dry	1.9	1/16/08	1/18/08	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
75-34-3	1,1-Dichloroethane	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
563-58-6	1,1-Dichloropropene	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
96-18-4	1,2,3-Trichloropropane	1.9	U	ug/kg dry	1.9	1/16/08	1/18/08	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	9.4	U, J, QC-1	ug/kg dry	9.4	1/16/08	1/18/08	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.47	U, B-2	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
107-06-2	1,2-Dichloroethane	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
78-87-5	1,2-Dichloropropane	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.47	U, B-2	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
142-28-9	1,3-Dichloropropane	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
594-20-7	2,2-Dichloropropane	1.9	U	ug/kg dry	1.9	1/16/08	1/18/08	EPA 8260C
67-64-1	Acetone	9.4	U, B-2	ug/kg dry	9.4	1/16/08	1/18/08	EPA 8260C
71-43-2	Benzene	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
108-86-1	Bromobenzene	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
74-97-5	Bromochloromethane	0.94	U	ug/kg dry	0.94	1/16/08	1/18/08	EPA 8260C
75-27-4	Bromodichloromethane	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
75-25-2	Bromoform	9.4	U, J, QC-1	ug/kg dry	9.4	1/16/08	1/18/08	EPA 8260C
74-83-9	Bromomethane	1.9	U	ug/kg dry	1.9	1/16/08	1/18/08	EPA 8260C



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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-016

Lab ID: E080307-07

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-15-0	Carbon disulfide	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
56-23-5	Carbon Tetrachloride	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
108-90-7	Chlorobenzene	0.47	U, B-2	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
75-00-3	Chloroethane	9.4	U	ug/kg dry	9.4	1/16/08	1/18/08	EPA 8260C
67-66-3	Chloroform	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
74-87-3	Chloromethane	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	9.4	U	ug/kg dry	9.4	1/16/08	1/18/08	EPA 8260C
110-82-7	Cyclohexane	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
124-48-1	Dibromochloromethane	0.94	U, J, QC-1	ug/kg dry	0.94	1/16/08	1/18/08	EPA 8260C
74-95-3	Dibromomethane	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
75-71-8	Dichlorodifluoromethane	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
100-41-4	Ethyl Benzene	1.2	U, B-2	ug/kg dry	1.2	1/16/08	1/18/08	EPA 8260C
87-68-3	Hexachlorobutadiene	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
98-82-8	Isopropylbenzene	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
79-20-9	Methyl Acetate	1.9	U	ug/kg dry	1.9	1/16/08	1/18/08	EPA 8260C
591-78-6	Methyl Butyl Ketone	9.4	U	ug/kg dry	9.4	1/16/08	1/18/08	EPA 8260C
78-93-3	Methyl Ethyl Ketone	1.9	U	ug/kg dry	1.9	1/16/08	1/18/08	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	9.4	U	ug/kg dry	9.4	1/16/08	1/18/08	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
108-87-2	Methylcyclohexane	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
75-09-2	Methylene Chloride	0.47	U, B-2	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
104-51-8	n-Butylbenzene	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
103-65-1	n-Propylbenzene	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
95-49-8	o-Chlorotoluene	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
95-47-6	o-Xylene	1.5	U, B-2	ug/kg dry	1.5	1/16/08	1/18/08	EPA 8260C
106-43-4	p-Chlorotoluene	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
99-87-6	p-Isopropyltoluene	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
135-98-8	sec-Butylbenzene	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
100-42-5	Styrene	0.47	U, B-2	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
98-06-6	tert-Butylbenzene	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C



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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-016

Lab ID: E080307-07

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 13:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
108-88-3	Toluene	0.53	U, B-2	ug/kg dry	0.53	1/16/08	1/18/08	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.94	U	ug/kg dry	0.94	1/16/08	1/18/08	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
75-01-4	Vinyl chloride	0.47	U	ug/kg dry	0.47	1/16/08	1/18/08	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	9	U	ug/kg dry	9	1/16/08	1/18/08	EPA 8260C



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Physical Properties

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-016

Lab ID: E080307-07

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 13:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	82		%		1/24/08	1/25/08	EPA 200.2



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D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-RB-04

Lab ID: E080307-08

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 1/15/08 13:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	1/16/08	1/16/08	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	1/16/08	1/16/08	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	1/16/08	1/16/08	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	1/16/08	1/16/08	EPA 8260C
74-83-9	Bromomethane	2.0	U	ug/L	2.0	1/16/08	1/16/08	EPA 8260C



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Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-RB-04

Lab ID: E080307-08

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 1/15/08 13:35

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
75-00-3	Chloroethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
67-66-3	Chloroform	0.77		ug/L	0.50	1/16/08	1/16/08	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
75-71-8	Dichlorodifluoromethane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	1/16/08	1/16/08	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	1/16/08	1/16/08	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U	ug/L	4.0	1/16/08	1/16/08	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	1/16/08	1/16/08	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
75-09-2	Methylene Chloride	0.080	J, Q-2	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-RB-04

Lab ID: E080307-08

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 1/15/08 13:35

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	1/16/08	1/16/08	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	1/16/08	1/16/08	EPA 8260C



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Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-017

Lab ID: E080307-09

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.8	U, B-2	ug/kg dry	3.8	1/16/08	1/18/08	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	2.3	U, J, QC-1	ug/kg dry	2.3	1/16/08	1/18/08	EPA 8260C
71-55-6	1,1,1-Trichloroethane	2.3	U	ug/kg dry	2.3	1/16/08	1/18/08	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
75-34-3	1,1-Dichloroethane	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
563-58-6	1,1-Dichloropropene	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
96-18-4	1,2,3-Trichloropropane	2.3	U	ug/kg dry	2.3	1/16/08	1/18/08	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	11	U, J, QC-1	ug/kg dry	11	1/16/08	1/18/08	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
107-06-2	1,2-Dichloroethane	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
78-87-5	1,2-Dichloropropane	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.57	U, B-2	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
142-28-9	1,3-Dichloropropane	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
594-20-7	2,2-Dichloropropane	2.3	U	ug/kg dry	2.3	1/16/08	1/18/08	EPA 8260C
67-64-1	Acetone	11	U, B-2	ug/kg dry	11	1/16/08	1/18/08	EPA 8260C
71-43-2	Benzene	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
108-86-1	Bromobenzene	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
74-97-5	Bromochloromethane	1.1	U	ug/kg dry	1.1	1/16/08	1/18/08	EPA 8260C
75-27-4	Bromodichloromethane	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
75-25-2	Bromoform	11	U, J, QC-1	ug/kg dry	11	1/16/08	1/18/08	EPA 8260C
74-83-9	Bromomethane	2.3	U, B-2	ug/kg dry	2.3	1/16/08	1/18/08	EPA 8260C



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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-017

Lab ID: E080307-09

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 14:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
75-15-0	Carbon disulfide	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
56-23-5	Carbon Tetrachloride	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
108-90-7	Chlorobenzene	0.57	U, B-2	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
75-00-3	Chloroethane	11	U	ug/kg dry	11	1/16/08	1/18/08	EPA 8260C
67-66-3	Chloroform	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
74-87-3	Chloromethane	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	11	U	ug/kg dry	11	1/16/08	1/18/08	EPA 8260C
110-82-7	Cyclohexane	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
124-48-1	Dibromochloromethane	1.1	U, J, QC-1	ug/kg dry	1.1	1/16/08	1/18/08	EPA 8260C
74-95-3	Dibromomethane	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
75-71-8	Dichlorodifluoromethane	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
100-41-4	Ethyl Benzene	0.87	U, B-2	ug/kg dry	0.87	1/16/08	1/18/08	EPA 8260C
87-68-3	Hexachlorobutadiene	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
98-82-8	Isopropylbenzene	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
79-20-9	Methyl Acetate	2.3	U	ug/kg dry	2.3	1/16/08	1/18/08	EPA 8260C
591-78-6	Methyl Butyl Ketone	11	U	ug/kg dry	11	1/16/08	1/18/08	EPA 8260C
78-93-3	Methyl Ethyl Ketone	2.3	U	ug/kg dry	2.3	1/16/08	1/18/08	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	11	U	ug/kg dry	11	1/16/08	1/18/08	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
108-87-2	Methylcyclohexane	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
75-09-2	Methylene Chloride	2.1	U, B-2	ug/kg dry	2.1	1/16/08	1/18/08	EPA 8260C
104-51-8	n-Butylbenzene	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
103-65-1	n-Propylbenzene	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
95-49-8	o-Chlorotoluene	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
95-47-6	o-Xylene	1.3	U, B-2	ug/kg dry	1.3	1/16/08	1/18/08	EPA 8260C
106-43-4	p-Chlorotoluene	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
99-87-6	p-Isopropyltoluene	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
135-98-8	sec-Butylbenzene	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
100-42-5	Styrene	0.57	U, B-2	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
98-06-6	tert-Butylbenzene	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C



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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-017

Lab ID: E080307-09

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 14:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
108-88-3	Toluene	0.57	U, B-2	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	1.1	U	ug/kg dry	1.1	1/16/08	1/18/08	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
75-01-4	Vinyl chloride	0.57	U	ug/kg dry	0.57	1/16/08	1/18/08	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/kg dry	10	1/16/08	1/18/08	EPA 8260C



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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Physical Properties

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-017

Lab ID: E080307-09

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 14:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	71		%		1/24/08	1/25/08	EPA 200.2



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D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-05

Lab ID: E080307-10

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 15:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	8.4	U, B-2	ug/kg dry	8.4	1/16/08	1/18/08	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U, J, QC-1	ug/kg dry	2.0	1/16/08	1/18/08	EPA 8260C
71-55-6	1,1,1-Trichloroethane	2.0	U	ug/kg dry	2.0	1/16/08	1/18/08	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
96-18-4	1,2,3-Trichloropropane	2.0	U	ug/kg dry	2.0	1/16/08	1/18/08	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	10	U, J, QC-1	ug/kg dry	10	1/16/08	1/18/08	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U, B-2	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U, B-2	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
594-20-7	2,2-Dichloropropane	2.0	U	ug/kg dry	2.0	1/16/08	1/18/08	EPA 8260C
67-64-1	Acetone	10	U, B-2	ug/kg dry	10	1/16/08	1/18/08	EPA 8260C
71-43-2	Benzene	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
74-97-5	Bromochloromethane	1.0	U	ug/kg dry	1.0	1/16/08	1/18/08	EPA 8260C
75-27-4	Bromodichloromethane	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
75-25-2	Bromoform	10	U, J, QC-1	ug/kg dry	10	1/16/08	1/18/08	EPA 8260C
74-83-9	Bromomethane	2.0	U, B-2	ug/kg dry	2.0	1/16/08	1/18/08	EPA 8260C



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 D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-05

Lab ID: E080307-10

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 15:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
75-15-0	Carbon disulfide	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
108-90-7	Chlorobenzene	0.50	U, B-2	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
75-00-3	Chloroethane	10	U	ug/kg dry	10	1/16/08	1/18/08	EPA 8260C
67-66-3	Chloroform	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	10	U	ug/kg dry	10	1/16/08	1/18/08	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
124-48-1	Dibromochloromethane	1.0	U, J, QC-1	ug/kg dry	1.0	1/16/08	1/18/08	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
75-71-8	Dichlorodifluoromethane	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
100-41-4	Ethyl Benzene	2.1	U, B-2	ug/kg dry	2.1	1/16/08	1/18/08	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
79-20-9	Methyl Acetate	2.0	U	ug/kg dry	2.0	1/16/08	1/18/08	EPA 8260C
591-78-6	Methyl Butyl Ketone	10	U	ug/kg dry	10	1/16/08	1/18/08	EPA 8260C
78-93-3	Methyl Ethyl Ketone	2.0	U	ug/kg dry	2.0	1/16/08	1/18/08	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	10	U	ug/kg dry	10	1/16/08	1/18/08	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
75-09-2	Methylene Chloride	2.5	U, B-2	ug/kg dry	2.5	1/16/08	1/18/08	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
95-47-6	o-Xylene	2.6	U, B-2	ug/kg dry	2.6	1/16/08	1/18/08	EPA 8260C
106-43-4	p-Chlorotoluene	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
100-42-5	Styrene	0.50	U, B-2	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-05

Lab ID: E080307-10

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 15:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
108-88-3	Toluene	1.2	U, B-2	ug/kg dry	1.2	1/16/08	1/18/08	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	1.0	U	ug/kg dry	1.0	1/16/08	1/18/08	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/kg dry	10	1/16/08	1/18/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Physical Properties

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-05

Lab ID: E080307-10

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 15:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	76		%		1/24/08	1/25/08	EPA 200.2



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 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-06

Lab ID: E080307-11

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 15:35

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
R4-7156	(m- and/or p-)Xylene	6.6	U, B-2	ug/kg dry	6.6	1/16/08	1/18/08	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	1.7	U, J, QC-1	ug/kg dry	1.7	1/16/08	1/18/08	EPA 8260C
71-55-6	1,1,1-Trichloroethane	1.7	U	ug/kg dry	1.7	1/16/08	1/18/08	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
75-34-3	1,1-Dichloroethane	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
563-58-6	1,1-Dichloropropene	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
96-18-4	1,2,3-Trichloropropane	1.7	U	ug/kg dry	1.7	1/16/08	1/18/08	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	8.4	U, J, QC-1	ug/kg dry	8.4	1/16/08	1/18/08	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.42	U, B-2	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
107-06-2	1,2-Dichloroethane	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
78-87-5	1,2-Dichloropropane	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.42	U, B-2	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
142-28-9	1,3-Dichloropropane	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
594-20-7	2,2-Dichloropropane	1.7	U	ug/kg dry	1.7	1/16/08	1/18/08	EPA 8260C
67-64-1	Acetone	8.4	U, B-2	ug/kg dry	8.4	1/16/08	1/18/08	EPA 8260C
71-43-2	Benzene	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
108-86-1	Bromobenzene	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
74-97-5	Bromochloromethane	0.84	U	ug/kg dry	0.84	1/16/08	1/18/08	EPA 8260C
75-27-4	Bromodichloromethane	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
75-25-2	Bromoform	8.4	U, J, QC-1	ug/kg dry	8.4	1/16/08	1/18/08	EPA 8260C
74-83-9	Bromomethane	1.7	U, B-2	ug/kg dry	1.7	1/16/08	1/18/08	EPA 8260C



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-06

Lab ID: E080307-11

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 15:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-15-0	Carbon disulfide	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
56-23-5	Carbon Tetrachloride	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
108-90-7	Chlorobenzene	0.50	U, B-2	ug/kg dry	0.50	1/16/08	1/18/08	EPA 8260C
75-00-3	Chloroethane	8.4	U	ug/kg dry	8.4	1/16/08	1/18/08	EPA 8260C
67-66-3	Chloroform	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
74-87-3	Chloromethane	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	8.4	U	ug/kg dry	8.4	1/16/08	1/18/08	EPA 8260C
110-82-7	Cyclohexane	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
124-48-1	Dibromochloromethane	0.84	U, J, QC-1	ug/kg dry	0.84	1/16/08	1/18/08	EPA 8260C
74-95-3	Dibromomethane	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
75-71-8	Dichlorodifluoromethane	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
100-41-4	Ethyl Benzene	1.7	U, B-2	ug/kg dry	1.7	1/16/08	1/18/08	EPA 8260C
87-68-3	Hexachlorobutadiene	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
98-82-8	Isopropylbenzene	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
79-20-9	Methyl Acetate	1.7	U	ug/kg dry	1.7	1/16/08	1/18/08	EPA 8260C
591-78-6	Methyl Butyl Ketone	8.4	U	ug/kg dry	8.4	1/16/08	1/18/08	EPA 8260C
78-93-3	Methyl Ethyl Ketone	1.7	U	ug/kg dry	1.7	1/16/08	1/18/08	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	8.4	U	ug/kg dry	8.4	1/16/08	1/18/08	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
108-87-2	Methylcyclohexane	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
75-09-2	Methylene Chloride	1.9	U, B-2	ug/kg dry	1.9	1/16/08	1/18/08	EPA 8260C
104-51-8	n-Butylbenzene	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
103-65-1	n-Propylbenzene	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
95-49-8	o-Chlorotoluene	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
95-47-6	o-Xylene	2.1	U, B-2	ug/kg dry	2.1	1/16/08	1/18/08	EPA 8260C
106-43-4	p-Chlorotoluene	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
99-87-6	p-Isopropyltoluene	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
135-98-8	sec-Butylbenzene	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
100-42-5	Styrene	0.42	U, B-2	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
98-06-6	tert-Butylbenzene	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-06

Lab ID: E080307-11

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 15:35

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
108-88-3	Toluene	0.89	U, B-2	ug/kg dry	0.89	1/16/08	1/18/08	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.84	U	ug/kg dry	0.84	1/16/08	1/18/08	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
75-01-4	Vinyl chloride	0.42	U	ug/kg dry	0.42	1/16/08	1/18/08	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	8	U	ug/kg dry	8	1/16/08	1/18/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Physical Properties

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-06

Lab ID: E080307-11

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 15:35

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	80		%		1/24/08	1/25/08	EPA 200.2



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-STB-04

Lab ID: E080307-12

Station ID:

Matrix: Trip Blank - Soil

Date Collected: 1/16/08 8:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.86	U, J, H-4	ug/kg dry	0.86	1/18/08	1/18/08	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	1.7	U, J, QC-1, H-4	ug/kg dry	1.7	1/18/08	1/18/08	EPA 8260C
71-55-6	1,1,1-Trichloroethane	1.7	U, J, H-4	ug/kg dry	1.7	1/18/08	1/18/08	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
75-34-3	1,1-Dichloroethane	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
563-58-6	1,1-Dichloropropene	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
96-18-4	1,2,3-Trichloropropane	1.7	U, J, H-4	ug/kg dry	1.7	1/18/08	1/18/08	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.43	U, J, B-2, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	8.6	U, J, QC-1, H-4	ug/kg dry	8.6	1/18/08	1/18/08	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
107-06-2	1,2-Dichloroethane	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
78-87-5	1,2-Dichloropropane	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
142-28-9	1,3-Dichloropropane	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
594-20-7	2,2-Dichloropropane	1.7	U, J, H-4	ug/kg dry	1.7	1/18/08	1/18/08	EPA 8260C
67-64-1	Acetone	8.6	U, J, B-2, H-4	ug/kg dry	8.6	1/18/08	1/18/08	EPA 8260C
71-43-2	Benzene	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
108-86-1	Bromobenzene	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
74-97-5	Bromochloromethane	0.86	U, J, H-4	ug/kg dry	0.86	1/18/08	1/18/08	EPA 8260C
75-27-4	Bromodichloromethane	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-STB-04

Lab ID: E080307-12

Station ID:

Matrix: Trip Blank - Soil

Date Collected: 1/16/08 8:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
75-25-2	Bromoform	8.6	U, J, H-4, QC-1	ug/kg dry	8.6	1/18/08	1/18/08	EPA 8260C
74-83-9	Bromomethane	1.7	U, J, B-2, H-4	ug/kg dry	1.7	1/18/08	1/18/08	EPA 8260C
75-15-0	Carbon disulfide	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
56-23-5	Carbon Tetrachloride	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
108-90-7	Chlorobenzene	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
75-00-3	Chloroethane	8.6	U, J, H-4	ug/kg dry	8.6	1/18/08	1/18/08	EPA 8260C
67-66-3	Chloroform	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
74-87-3	Chloromethane	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	8.6	U, J, H-4	ug/kg dry	8.6	1/18/08	1/18/08	EPA 8260C
110-82-7	Cyclohexane	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
124-48-1	Dibromochloromethane	0.86	U, J, QC-1, H-4	ug/kg dry	0.86	1/18/08	1/18/08	EPA 8260C
74-95-3	Dibromomethane	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
75-71-8	Dichlorodifluoromethane	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
100-41-4	Ethyl Benzene	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
87-68-3	Hexachlorobutadiene	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
98-82-8	Isopropylbenzene	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
79-20-9	Methyl Acetate	1.7	U, J, H-4	ug/kg dry	1.7	1/18/08	1/18/08	EPA 8260C
591-78-6	Methyl Butyl Ketone	8.6	U, J, H-4	ug/kg dry	8.6	1/18/08	1/18/08	EPA 8260C
78-93-3	Methyl Ethyl Ketone	1.7	U, J, H-4	ug/kg dry	1.7	1/18/08	1/18/08	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	8.6	U, J, H-4	ug/kg dry	8.6	1/18/08	1/18/08	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
108-87-2	Methylcyclohexane	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
75-09-2	Methylene Chloride	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
104-51-8	n-Butylbenzene	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
103-65-1	n-Propylbenzene	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
95-49-8	o-Chlorotoluene	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
95-47-6	o-Xylene	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
106-43-4	p-Chlorotoluene	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
99-87-6	p-Isopropyltoluene	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-STB-04

Lab ID: E080307-12

Station ID:

Matrix: Trip Blank - Soil

Date Collected: 1/16/08 8:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
135-98-8	sec-Butylbenzene	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
100-42-5	Styrene	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
98-06-6	tert-Butylbenzene	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
108-88-3	Toluene	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.86	U, J, H-4	ug/kg dry	0.86	1/18/08	1/18/08	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
75-01-4	Vinyl chloride	0.43	U, J, H-4	ug/kg dry	0.43	1/18/08	1/18/08	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	9	U, J, H-4	ug/kg dry	9	1/18/08	1/18/08	EPA 8260C



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D.A.R.T. Id: 08-0156

Physical Properties

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-STB-04

Lab ID: E080307-12

Station ID:

Matrix: Trip Blank - Soil

Date Collected: 1/16/08 8:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	90		%		1/24/08	1/25/08	EPA 200.2



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-011

Lab ID: E080307-13

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/16/08 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.1	U, J, H-4	ug/kg dry	1.1	1/18/08	1/24/08	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	2.3	U, J, H-4	ug/kg dry	2.3	1/18/08	1/24/08	EPA 8260C
71-55-6	1,1,1-Trichloroethane	2.3	U, J, H-4	ug/kg dry	2.3	1/18/08	1/24/08	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
75-34-3	1,1-Dichloroethane	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
563-58-6	1,1-Dichloropropene	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
96-18-4	1,2,3-Trichloropropane	2.3	U, J, H-4	ug/kg dry	2.3	1/18/08	1/24/08	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	11	U, J, H-4	ug/kg dry	11	1/18/08	1/24/08	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
107-06-2	1,2-Dichloroethane	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
78-87-5	1,2-Dichloropropane	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
142-28-9	1,3-Dichloropropane	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
594-20-7	2,2-Dichloropropane	2.3	U, J, H-4	ug/kg dry	2.3	1/18/08	1/24/08	EPA 8260C
67-64-1	Acetone	11	U, J, H-4	ug/kg dry	11	1/18/08	1/24/08	EPA 8260C
71-43-2	Benzene	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
108-86-1	Bromobenzene	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
74-97-5	Bromochloromethane	1.1	U, J, H-4	ug/kg dry	1.1	1/18/08	1/24/08	EPA 8260C
75-27-4	Bromodichloromethane	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
75-25-2	Bromoform	11	U, J, H-4	ug/kg dry	11	1/18/08	1/24/08	EPA 8260C
74-83-9	Bromomethane	2.3	U, J, H-4	ug/kg dry	2.3	1/18/08	1/24/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-011

Lab ID: E080307-13

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/16/08 10:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
75-15-0	Carbon disulfide	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
56-23-5	Carbon Tetrachloride	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
108-90-7	Chlorobenzene	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
75-00-3	Chloroethane	11	U, J, H-4	ug/kg dry	11	1/18/08	1/24/08	EPA 8260C
67-66-3	Chloroform	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
74-87-3	Chloromethane	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	11	U, J, H-4	ug/kg dry	11	1/18/08	1/24/08	EPA 8260C
110-82-7	Cyclohexane	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
124-48-1	Dibromochloromethane	1.1	U, J, H-4	ug/kg dry	1.1	1/18/08	1/24/08	EPA 8260C
74-95-3	Dibromomethane	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
75-71-8	Dichlorodifluoromethane	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
100-41-4	Ethyl Benzene	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
87-68-3	Hexachlorobutadiene	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
98-82-8	Isopropylbenzene	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
79-20-9	Methyl Acetate	2.3	U, J, H-4	ug/kg dry	2.3	1/18/08	1/24/08	EPA 8260C
591-78-6	Methyl Butyl Ketone	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
78-93-3	Methyl Ethyl Ketone	2.3	U, J, H-4	ug/kg dry	2.3	1/18/08	1/24/08	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	11	U, J, H-4, QL-1	ug/kg dry	11	1/18/08	1/24/08	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
108-87-2	Methylcyclohexane	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
75-09-2	Methylene Chloride	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
104-51-8	n-Butylbenzene	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
103-65-1	n-Propylbenzene	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
95-49-8	o-Chlorotoluene	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
95-47-6	o-Xylene	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
106-43-4	p-Chlorotoluene	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
99-87-6	p-Isopropyltoluene	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
135-98-8	sec-Butylbenzene	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
100-42-5	Styrene	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
98-06-6	tert-Butylbenzene	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-011

Lab ID: E080307-13

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/16/08 10:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
127-18-4	Tetrachloroethene (Tetrachloroethylene)	1.5	U, J, H-4, B-2	ug/kg dry	1.5	1/18/08	1/24/08	EPA 8260C
108-88-3	Toluene	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	1.1	U, J, H-4	ug/kg dry	1.1	1/18/08	1/24/08	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U, J, H-4, B-2	ug/kg dry	5.0	1/18/08	1/24/08	EPA 8260C
75-01-4	Vinyl chloride	0.56	U, J, H-4	ug/kg dry	0.56	1/18/08	1/24/08	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U, J, H-4	ug/kg dry	10	1/18/08	1/24/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Physical Properties

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-011

Lab ID: E080307-13

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/16/08 10:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	76		%		1/24/08	1/25/08	EPA 200.2



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-04

Lab ID: E080307-14

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/16/08 11:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
R4-7156	(m- and/or p-)Xylene	0.92	U, J, H-4	ug/kg dry	0.92	1/18/08	1/18/08	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	1.8	U, J, QC-1, H-4	ug/kg dry	1.8	1/18/08	1/18/08	EPA 8260C
71-55-6	1,1,1-Trichloroethane	1.8	U, J, H-4	ug/kg dry	1.8	1/18/08	1/18/08	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
75-34-3	1,1-Dichloroethane	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
563-58-6	1,1-Dichloropropene	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
96-18-4	1,2,3-Trichloropropane	1.8	U, J, H-4	ug/kg dry	1.8	1/18/08	1/18/08	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	9.2	U, J, QC-1, H-4	ug/kg dry	9.2	1/18/08	1/18/08	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
107-06-2	1,2-Dichloroethane	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
78-87-5	1,2-Dichloropropane	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
142-28-9	1,3-Dichloropropane	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
594-20-7	2,2-Dichloropropane	1.8	U, J, H-4	ug/kg dry	1.8	1/18/08	1/18/08	EPA 8260C
67-64-1	Acetone	9.2	U, J, H-4	ug/kg dry	9.2	1/18/08	1/18/08	EPA 8260C
71-43-2	Benzene	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
108-86-1	Bromobenzene	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
74-97-5	Bromochloromethane	0.92	U, J, H-4	ug/kg dry	0.92	1/18/08	1/18/08	EPA 8260C
75-27-4	Bromodichloromethane	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-04

Lab ID: E080307-14

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/16/08 11:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
75-25-2	Bromoform	9.2	U, J, H-4, QC-1	ug/kg dry	9.2	1/18/08	1/18/08	EPA 8260C
74-83-9	Bromomethane	1.8	U, J, H-4	ug/kg dry	1.8	1/18/08	1/18/08	EPA 8260C
75-15-0	Carbon disulfide	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
56-23-5	Carbon Tetrachloride	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
108-90-7	Chlorobenzene	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
75-00-3	Chloroethane	9.2	U, J, H-4	ug/kg dry	9.2	1/18/08	1/18/08	EPA 8260C
67-66-3	Chloroform	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
74-87-3	Chloromethane	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	9.2	U, J, H-4	ug/kg dry	9.2	1/18/08	1/18/08	EPA 8260C
110-82-7	Cyclohexane	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
124-48-1	Dibromochloromethane	0.92	U, J, QC-1, H-4	ug/kg dry	0.92	1/18/08	1/18/08	EPA 8260C
74-95-3	Dibromomethane	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
75-71-8	Dichlorodifluoromethane	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
100-41-4	Ethyl Benzene	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
87-68-3	Hexachlorobutadiene	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
98-82-8	Isopropylbenzene	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
79-20-9	Methyl Acetate	1.8	U, J, H-4	ug/kg dry	1.8	1/18/08	1/18/08	EPA 8260C
591-78-6	Methyl Butyl Ketone	9.2	U, J, H-4	ug/kg dry	9.2	1/18/08	1/18/08	EPA 8260C
78-93-3	Methyl Ethyl Ketone	1.8	U, J, H-4	ug/kg dry	1.8	1/18/08	1/18/08	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	9.2	U, J, H-4	ug/kg dry	9.2	1/18/08	1/18/08	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
108-87-2	Methylcyclohexane	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
75-09-2	Methylene Chloride	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
104-51-8	n-Butylbenzene	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
103-65-1	n-Propylbenzene	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
95-49-8	o-Chlorotoluene	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
95-47-6	o-Xylene	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
106-43-4	p-Chlorotoluene	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
99-87-6	p-Isopropyltoluene	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C



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 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-04

Lab ID: E080307-14

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/16/08 11:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
135-98-8	sec-Butylbenzene	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
100-42-5	Styrene	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
98-06-6	tert-Butylbenzene	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
108-88-3	Toluene	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.92	U, J, H-4	ug/kg dry	0.92	1/18/08	1/18/08	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
75-01-4	Vinyl chloride	0.46	U, J, H-4	ug/kg dry	0.46	1/18/08	1/18/08	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	9	U, J, H-4	ug/kg dry	9	1/18/08	1/18/08	EPA 8260C



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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Physical Properties

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-SB-04

Lab ID: E080307-14

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/16/08 11:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	90		%		1/24/08	1/25/08	EPA 200.2



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 D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-GW-06

Lab ID: E080307-15

Station ID:

Matrix: Groundwater

Date Collected: 1/16/08 13:35

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	1/18/08	1/18/08	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
74-83-9	Bromomethane	2.0	U	ug/L	2.0	1/18/08	1/18/08	EPA 8260C



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-GW-06

Lab ID: E080307-15

Station ID:

Matrix: Groundwater

Date Collected: 1/16/08 13:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-00-3	Chloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
67-66-3	Chloroform	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
74-87-3	Chloromethane	0.50	U, J, QM-3	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-71-8	Dichlorodifluoromethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U	ug/L	4.0	1/18/08	1/18/08	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-GW-06

Lab ID: E080307-15

Station ID:

Matrix: Groundwater

Date Collected: 1/16/08 13:35

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	1/18/08	1/18/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-WTB-05

Lab ID: E080307-16

Station ID:

Matrix: Trip Blank - Water

Date Collected: 1/16/08 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	1/18/08	1/18/08	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
74-83-9	Bromomethane	2.0	U	ug/L	2.0	1/18/08	1/18/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-WTB-05

Lab ID: E080307-16

Station ID:

Matrix: Trip Blank - Water

Date Collected: 1/16/08 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-00-3	Chloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
67-66-3	Chloroform	0.69		ug/L	0.50	1/18/08	1/18/08	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-71-8	Dichlorodifluoromethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U	ug/L	4.0	1/18/08	1/18/08	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-09-2	Methylene Chloride	0.12	J, Q-2	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-WTB-05

Lab ID: E080307-16

Station ID:

Matrix: Trip Blank - Water

Date Collected: 1/16/08 15:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	1/18/08	1/18/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-GW-04

Lab ID: E080307-17

Station ID:

Matrix: Groundwater

Date Collected: 1/16/08 14:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	1/18/08	1/18/08	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
74-83-9	Bromomethane	2.0	U	ug/L	2.0	1/18/08	1/18/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-GW-04

Lab ID: E080307-17

Station ID:

Matrix: Groundwater

Date Collected: 1/16/08 14:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-00-3	Chloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
67-66-3	Chloroform	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.96		ug/L	0.50	1/18/08	1/18/08	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-71-8	Dichlorodifluoromethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U	ug/L	4.0	1/18/08	1/18/08	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-GW-04

Lab ID: E080307-17

Station ID:

Matrix: Groundwater

Date Collected: 1/16/08 14:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	14		ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	1/18/08	1/18/08	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-GW-017

Lab ID: E080307-18

Station ID:

Matrix: Groundwater

Date Collected: 1/16/08 14:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	1/18/08	1/18/08	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
74-83-9	Bromomethane	2.0	U	ug/L	2.0	1/18/08	1/18/08	EPA 8260C



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Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-GW-017

Lab ID: E080307-18

Station ID:

Matrix: Groundwater

Date Collected: 1/16/08 14:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-00-3	Chloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
67-66-3	Chloroform	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.85		ug/L	0.50	1/18/08	1/18/08	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-71-8	Dichlorodifluoromethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U	ug/L	4.0	1/18/08	1/18/08	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C



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Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-GW-017

Lab ID: E080307-18

Station ID:

Matrix: Groundwater

Date Collected: 1/16/08 14:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	13		ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	1/18/08	1/18/08	EPA 8260C



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Volatile Organics

Project: 08-0205, Mills Gap Road Groundwater Contamination

Sample ID: MGGC-GW-05

Lab ID: E080307-19

Station ID:

Matrix: Groundwater

Date Collected: 1/16/08 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	1/18/08	1/18/08	EPA 8260C
71-43-2	Benzene	0.060	J, Q-2	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
74-83-9	Bromomethane	2.0	U	ug/L	2.0	1/18/08	1/18/08	EPA 8260C



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Volatile Organics

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Sample ID: MGGC-GW-05

Lab ID: E080307-19

Station ID:

Matrix: Groundwater

Date Collected: 1/16/08 15:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-00-3	Chloroethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
67-66-3	Chloroform	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-71-8	Dichlorodifluoromethane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U	ug/L	4.0	1/18/08	1/18/08	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	1/18/08	1/18/08	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C



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Volatile Organics

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Lab ID: E080307-19

Station ID:

Matrix: Groundwater

Date Collected: 1/16/08 15:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
108-88-3	Toluene	0.090	J, Q-2	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	1/18/08	1/18/08	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	1/18/08	1/18/08	EPA 8260C



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D.A.R.T. Id: 08-0156

January 30, 2008

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 08-0156, Mills Gap Road Groundwater Contamination
Superfund Remedial

FROM: Charlie Appleby
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: David Dorian

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:

Method Used:

Semi Volatile Organics (SVOA)

Semivolatile organic compounds

CLP BNA



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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Report Narrative for Work Order C080204, Project: 08-0156

Data Review and Validation Report

Site Name: Mills Gap Road Groundwater Contamination, Asheville, NC

Case No. 37100, Project No. 08-0156, Work Order No. C080204

ELEMENT Sample Nos.: C080204-01 - C080204-21

Sampling Dates: 12/12-14/07

Inorganic Analysis: DataChem Laboratories, Salt Lake City, UT

Date Received from Lab: 01/07/08

Analyses conducted: Total metals, mercury, and cyanide

The ESAT Work Team has reviewed the above-captioned CLP data package consisting of 10 water and 10 soil samples for Total Metals analysis by ICP-AES and cyanide analysis by SOW ILM05.3, according to the contract Statement of Work and EPA guidelines. This package presents acceptable contractual and technical performance with qualifications. Further details are provided below and in the attached review summary form.

Examination of blank samples revealed apparent low-level contamination with several elements listed in Table 1 (attached to hardcopy validation report). Reported detection limits were adjusted as high as five times blank levels to discount possible false positives due to contamination.

ICP-AES Analysis

Soil matrix spiked sample recoveries for arsenic and selenium were 51 and 38% respectively. All soil sample results for arsenic and selenium were considered estimated and flagged "J".

Soil matrix spiked sample recovery for lead was -103%. All positive soil sample results for lead were considered estimated and flagged "J". All non-detected soil sample results for lead were considered unusable and flagged "R".

Soil performance evaluation sample recovery for chromium was scored as warning high by the web-based SPS Web software. All positive soil sample results for chromium were considered estimated and flagged "J".

Percent relative standard deviations were greater than 20% for plasma multiple exposures and reported results were greater than the method detection limit, but less than the contract required quantitation limit for arsenic in sample C080204-05, lead in sample C080204-02, and selenium in samples C080204-05, 06, 08, 13, and 14. The above sample result was suspected of being a potential false positive and, hence, unusable and flagged "R".

Mercury Analysis

The water performance evaluation sample result for mercury (MD4DS1) was reported as 0.029J and scored as



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action low by the web-based SPS Web software. It appears that the sample preparation technician may have taken the mercury sample from the metals PE sample rather than from the mercury PE sample provided to the laboratory. As a result, the water mercury performance evaluation sample was not used to qualify any mercury data for water samples.

Organic Analysis: KAP Technologies, Inc., The Woodlands, TX

The ESAT Work Team reviewed data for seven water samples analyzed for low/medium volatiles and semivolatiles, eight soil samples analyzed for low/medium volatiles and semivolatiles, three water samples analyzed for low/medium volatiles, and two soil samples analyzed for low/medium volatiles per CLP statement of work SOM01.2. The samples were received by the laboratory on 12/15/07, and the final data package was received on 01/07/08 by the USEPA Quality Assurance Section, Region 4 SESD/MTSB. The laboratory satisfied all technical and contractual analysis and extraction holding time requirements. The data package presents acceptable contractual and technical performance with qualifications.

Volatile analyte 1,4-dioxane was scored as warning low in the water PES and 1,2,3-trichlorobenzene was scored as warning high. The laboratory scored within warning limits for all spiked compounds in the semivolatile water PES with the exceptions of 1,1'-biphenyl and phenanthrene, which were scored as warning low, benzo(k)fluoranthene, which was scored as action low, and 4-nitrophenol, which was scored as an analyte missed. All results for benzo(k)fluoranthene and 4-nitrophenol were qualified "R" in the semivolatile water samples. All results for 1,1'-biphenyl and phenanthrene were qualified "J" in the semivolatile water samples.

The laboratory was unable to meet the minimum RRF of 0.005 for 1,4-dioxane in the initial calibration for low/medium volatile analysis. All results (all nondetects) for this compound were "J" qualified and all non-detected results were "R" qualified in the associated samples.

Deuterated monitoring compounds (DMC) are used as surrogates in each sample for GC/MS analysis to monitor extraction efficiency. Low DMC recoveries were observed in volatile samples SESD No. C080204-04 (D4DW5), C080204-18 (D4E35), C080204-20 (D4E36), and C080204-21 (D4E37). All results for the compounds associated with these DMCs were "J" qualified in these samples.

Samples C080204-17 (D4E31) and C080204-19 (D4E32) were originally reported with the incorrect percent moisture. Sample C080204-12 (D4DW6) was originally submitted with an incorrect EPA sample number. Both issues were resolved prior to data review.

Data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

cc: Nardina Turner



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SAMPLES INCLUDED IN THIS REPORT

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected	Date Received
MGGC-GW-02	C080204-01	4DS7	4DS7	Groundwater	12/14/07 10:40	12/15/07 16:36
MGGC-GW-03	C080204-02	4DS8	4DS8	Groundwater	12/14/07 11:50	12/15/07 16:36
MGGC-GW-016	C080204-03	4DW1	4DW1	Groundwater	12/14/07 11:50	12/15/07 16:36
MGGC-RB-01	C080204-04	4DW5	4DW5	Equipment Rinse Blank	12/12/07 13:30	12/15/07 16:36
MGGC-SB-01	C080204-05	4DW7	4DW7	Subsurface Soil	12/12/07 11:45	12/15/07 16:36
MGGC-SB-02	C080204-06	4E18	4E18	Subsurface Soil	12/12/07 14:00	12/15/07 16:36
MGGC-SB-022	C080204-07	4E21	4E21	Subsurface Soil	12/12/07 14:00	12/15/07 16:36
MGGC-SB-03	C080204-08	4E24	4E24	Subsurface Soil	12/12/07 14:25	12/15/07 16:36
MGGC-GW-01	C080204-10	4DS6	4DS6	Groundwater	12/13/07 11:55	12/15/07 16:36
MGGC-RB-02	C080204-12	4DW6	4DW6	Groundwater	12/13/07 14:00	12/15/07 16:36
MGGC-SB-010	C080204-13	4DW8	4DW8	Subsurface Soil	12/13/07 15:40	12/15/07 16:36
MGGC-SB-020	C080204-14	4E19	4E19	Subsurface Soil	12/13/07 10:05	12/15/07 16:36
MGGC-SB-021	C080204-15	4E20	4E20	Subsurface Soil	12/13/07 11:25	12/15/07 16:36
MGGC-SB-08	C080204-16	4E29	4E29	Subsurface Soil	12/13/07 16:30	12/15/07 16:36



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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CLP01	Concentration reported is less than the lowest standard on calibration curve
CLP06	PE sample recovery less than control limits.
CLP07	PE sample recovery outside warning limits.
CLP15	TIC Results Reported as Identified by Lab - IDs Not Verified
J	The identification of the analyte is acceptable; the reported value is an estimate.
N	There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification.
NJ	Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
QS-5	Surrogate recovery is higher than established control limits
R	The presence or absence of the analyte can not be determined from the data due to severe quality control problems. The data are rejected and considered unusable.

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - The analyte concentration which corresponds to the lowest quantitative point on the calibration curve or the lowest demonstrated level of acceptable quantitation.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-GW-02

Lab ID: C080204-01

MD No: 4DS7 DATAC

Station ID:

Matrix: Groundwater

D No: 4DS7 KAP

Date Collected: 12/14/07 10:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U, J, CLP07	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	12/15/07	12/26/07	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	12/15/07	12/26/07	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	12/15/07	12/26/07	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	12/15/07	12/26/07	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	12/15/07	12/26/07	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U, R, CLP06	ug/L	10	12/15/07	12/26/07	CLP SOM01.2 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B



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Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-GW-02

Lab ID: C080204-01

MD No: 4DS7 DATAC

Station ID:

Matrix: Groundwater

D No: 4DS7 KAP

Date Collected: 12/14/07 10:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	5.0	U, R, CLP06	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B



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Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-GW-02

Lab ID: C080204-01

MD No: 4DS7 DATAC

Station ID:

Matrix: Groundwater

D No: 4DS7 KAP

Date Collected: 12/14/07 10:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	12/15/07	12/26/07	CLP SOM01.2 B
85-01-8	Phenanthrene	5.0	U, J, CLP07	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
108-95-2	Phenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	7	J, CLP15	ug/L		12/15/07	12/26/07	CLP SOM01.2 B



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Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-GW-03

Lab ID: C080204-02

MD No: 4DS8 DATAC

Station ID:

Matrix: Groundwater

D No: 4DS8 KAP

Date Collected: 12/14/07 11:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U, J, CLP07	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	12/15/07	12/26/07	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	12/15/07	12/26/07	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	7.0	J, QS-5	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	12/15/07	12/26/07	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	12/15/07	12/26/07	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	12/15/07	12/26/07	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U, R, CLP06	ug/L	10	12/15/07	12/26/07	CLP SOM01.2 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-GW-03

Lab ID: C080204-02

MD No: 4DS8 DATAC

Station ID:

Matrix: Groundwater

D No: 4DS8 KAP

Date Collected: 12/14/07 11:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	5.0	U, R, CLP06	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-GW-03

Lab ID: C080204-02

MD No: 4DS8 DATAC

Station ID:

Matrix: Groundwater

D No: 4DS8 KAP

Date Collected: 12/14/07 11:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
87-86-5	Pentachlorophenol	2.3	J, CLP01	ug/L	10	12/15/07	12/26/07	CLP SOM01.2 B
85-01-8	Phenanthrene	5.0	U, J, CLP07	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
108-95-2	Phenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	7	J, CLP15	ug/L		12/15/07	12/26/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-GW-016

Lab ID: C080204-03

MD No: 4DW1 DATAC

Station ID:

Matrix: Groundwater

D No: 4DW1 KAP

Date Collected: 12/14/07 11:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U, J, CLP07	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	12/15/07	12/26/07	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	12/15/07	12/26/07	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	5.6		ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	12/15/07	12/26/07	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	12/15/07	12/26/07	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	12/15/07	12/26/07	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U, R, CLP06	ug/L	10	12/15/07	12/26/07	CLP SOM01.2 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-GW-016

Lab ID: C080204-03

MD No: 4DW1 DATAC

Station ID:

Matrix: Groundwater

D No: 4DW1 KAP

Date Collected: 12/14/07 11:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	5.0	U, R, CLP06	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-GW-016

Lab ID: C080204-03

MD No: 4DW1 DATAC

Station ID:

Matrix: Groundwater

D No: 4DW1 KAP

Date Collected: 12/14/07 11:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	12/15/07	12/26/07	CLP SOM01.2 B
85-01-8	Phenanthrene	5.0	U, J, CLP07	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
108-95-2	Phenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	30	J, CLP15	ug/L		12/15/07	12/26/07	CLP SOM01.2 B



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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-RB-01

Lab ID: C080204-04

MD No: 4DW5 DATAC

Station ID:

Matrix: Equipment Rinse Blank

D No: 4DW5 KAP

Date Collected: 12/12/07 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U, J, CLP07	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	12/15/07	12/23/07	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	12/15/07	12/23/07	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	12/15/07	12/23/07	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	12/15/07	12/23/07	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	12/15/07	12/23/07	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U, R, CLP06	ug/L	10	12/15/07	12/23/07	CLP SOM01.2 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-RB-01

Lab ID: C080204-04

MD No: 4DW5 DATAC

Station ID:

Matrix: Equipment Rinse Blank

D No: 4DW5 KAP

Date Collected: 12/12/07 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	5.0	U, R, CLP06	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-RB-01

Lab ID: C080204-04

MD No: 4DW5 DATAC

Station ID:

Matrix: Equipment Rinse Blank

D No: 4DW5 KAP

Date Collected: 12/12/07 13:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	12/15/07	12/23/07	CLP SOM01.2 B
85-01-8	Phenanthrene	5.0	U, J, CLP07	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
108-95-2	Phenol	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	12/15/07	12/23/07	CLP SOM01.2 B



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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-01

Lab ID: C080204-05

MD No: 4DW7 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4DW7 KAP

Date Collected: 12/12/07 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	11		%		12/17/07	12/24/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	370	U	ug/kg dry	370	12/17/07	12/24/07	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U	ug/kg dry	370	12/17/07	12/24/07	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	12/17/07	12/24/07	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	12/17/07	12/24/07	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	12/17/07	12/24/07	CLP SOM01.2 B
100-02-7	4-Nitrophenol	370	U	ug/kg dry	370	12/17/07	12/24/07	CLP SOM01.2 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
120-12-7	Anthracene	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-01

Lab ID: C080204-05

MD No: 4DW7 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4DW7 KAP

Date Collected: 12/12/07 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
218-01-9	Chrysene	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
206-44-0	Fluoranthene	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
86-73-7	Fluorene	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
78-59-1	Isophorone	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B



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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-01

Lab ID: C080204-05

MD No: 4DW7 DATA C

Station ID:

Matrix: Subsurface Soil

D No: 4DW7 KAP

Date Collected: 12/12/07 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
87-86-5	Pentachlorophenol	370	U	ug/kg dry	370	12/17/07	12/24/07	CLP SOM01.2 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
108-95-2	Phenol	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
129-00-0	Pyrene	190	U	ug/kg dry	190	12/17/07	12/24/07	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-02

Lab ID: C080204-06

MD No: 4E18 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E18 KAP

Date Collected: 12/12/07 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		12/17/07	12/23/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	400	U	ug/kg dry	400	12/17/07	12/23/07	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	12/17/07	12/23/07	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
88-74-4	2-Nitroaniline	400	U	ug/kg dry	400	12/17/07	12/23/07	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	12/17/07	12/23/07	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	12/17/07	12/23/07	CLP SOM01.2 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	12/17/07	12/23/07	CLP SOM01.2 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
120-12-7	Anthracene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-02

Lab ID: C080204-06

MD No: 4E18 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E18 KAP

Date Collected: 12/12/07 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	61	J, CLP01	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	48	J, CLP01	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	69	J, CLP01	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	51	J, CLP01	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	56	J, CLP01	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
86-74-8	Carbazole	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
218-01-9	Chrysene	70	J, CLP01	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	42	J, CLP01	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
206-44-0	Fluoranthene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
86-73-7	Fluorene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	61	J, CLP01	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
78-59-1	Isophorone	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-02

Lab ID: C080204-06

MD No: 4E18 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E18 KAP

Date Collected: 12/12/07 14:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	12/17/07	12/23/07	CLP SOM01.2 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
108-95-2	Phenol	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
129-00-0	Pyrene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	12/17/07	12/23/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-022

Lab ID: C080204-07

MD No: 4E21 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E21 KAP

Date Collected: 12/12/07 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		12/17/07	12/24/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	400	U	ug/kg dry	400	12/17/07	12/24/07	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	12/17/07	12/24/07	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
88-74-4	2-Nitroaniline	400	U	ug/kg dry	400	12/17/07	12/24/07	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	12/17/07	12/24/07	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	12/17/07	12/24/07	CLP SOM01.2 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	12/17/07	12/24/07	CLP SOM01.2 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
120-12-7	Anthracene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-022

Lab ID: C080204-07

MD No: 4E21 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E21 KAP

Date Collected: 12/12/07 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
218-01-9	Chrysene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
206-44-0	Fluoranthene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
86-73-7	Fluorene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
78-59-1	Isophorone	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-022

Lab ID: C080204-07

MD No: 4E21 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E21 KAP

Date Collected: 12/12/07 14:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	12/17/07	12/24/07	CLP SOM01.2 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
108-95-2	Phenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
129-00-0	Pyrene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-03

Lab ID: C080204-08

MD No: 4E24 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E24 KAP

Date Collected: 12/12/07 14:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		12/17/07	12/23/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	410	U	ug/kg dry	410	12/17/07	12/23/07	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	410	U	ug/kg dry	410	12/17/07	12/23/07	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
88-74-4	2-Nitroaniline	410	U	ug/kg dry	410	12/17/07	12/23/07	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	12/17/07	12/23/07	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	12/17/07	12/23/07	CLP SOM01.2 B
100-02-7	4-Nitrophenol	410	U	ug/kg dry	410	12/17/07	12/23/07	CLP SOM01.2 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
120-12-7	Anthracene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-03

Lab ID: C080204-08

MD No: 4E24 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E24 KAP

Date Collected: 12/12/07 14:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
86-74-8	Carbazole	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
218-01-9	Chrysene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
206-44-0	Fluoranthene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
86-73-7	Fluorene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
78-59-1	Isophorone	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-03

Lab ID: C080204-08

MD No: 4E24 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E24 KAP

Date Collected: 12/12/07 14:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
87-86-5	Pentachlorophenol	410	U	ug/kg dry	410	12/17/07	12/23/07	CLP SOM01.2 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
108-95-2	Phenol	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
129-00-0	Pyrene	210	U	ug/kg dry	210	12/17/07	12/23/07	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	12/17/07	12/23/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-GW-01

Lab ID: C080204-10

MD No: 4DS6 DATAC

Station ID:

Matrix: Groundwater

D No: 4DS6 KAP

Date Collected: 12/13/07 11:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.66	J, CLP01	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U, J, CLP07	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	12/15/07	12/26/07	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	12/15/07	12/26/07	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	12/15/07	12/26/07	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	12/15/07	12/26/07	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	12/15/07	12/26/07	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U, R, CLP06	ug/L	10	12/15/07	12/26/07	CLP SOM01.2 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-GW-01

Lab ID: C080204-10

MD No: 4DS6 DATAC

Station ID:

Matrix: Groundwater

D No: 4DS6 KAP

Date Collected: 12/13/07 11:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	5.0	U, R, CLP06	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	0.87	J, CLP01	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-GW-01

Lab ID: C080204-10

MD No: 4DS6 DATAC

Station ID:

Matrix: Groundwater

D No: 4DS6 KAP

Date Collected: 12/13/07 11:55

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	12/15/07	12/26/07	CLP SOM01.2 B
85-01-8	Phenanthrene	5.0	U, J, CLP07	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
108-95-2	Phenol	0.59	J, CLP01	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	12/15/07	12/26/07	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	6	J, CLP15	ug/L		12/15/07	12/26/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-RB-02

Lab ID: C080204-12

MD No: 4DW6 DATAC

Station ID:

Matrix: Groundwater

D No: 4DW6 KAP

Date Collected: 12/13/07 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U, J, CLP07	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	12/15/07	12/23/07	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	12/15/07	12/23/07	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	12/15/07	12/23/07	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	12/15/07	12/23/07	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	12/15/07	12/23/07	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U, R, CLP06	ug/L	10	12/15/07	12/23/07	CLP SOM01.2 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-RB-02

Lab ID: C080204-12

MD No: 4DW6 DATAC

Station ID:

Matrix: Groundwater

D No: 4DW6 KAP

Date Collected: 12/13/07 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	5.0	U, R, CLP06	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-RB-02

Lab ID: C080204-12

MD No: 4DW6 DATA C

Station ID:

Matrix: Groundwater

D No: 4DW6 KAP

Date Collected: 12/13/07 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	12/15/07	12/23/07	CLP SOM01.2 B
85-01-8	Phenanthrene	5.0	U, J, CLP07	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
108-95-2	Phenol	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	12/15/07	12/23/07	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	12/15/07	12/23/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-010

Lab ID: C080204-13

MD No: 4DW8 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4DW8 KAP

Date Collected: 12/13/07 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		12/17/07	12/24/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	390	U	ug/kg dry	390	12/17/07	12/24/07	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	12/17/07	12/24/07	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	12/17/07	12/24/07	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	12/17/07	12/24/07	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	12/17/07	12/24/07	CLP SOM01.2 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	12/17/07	12/24/07	CLP SOM01.2 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
120-12-7	Anthracene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-010

Lab ID: C080204-13

MD No: 4DW8 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4DW8 KAP

Date Collected: 12/13/07 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
218-01-9	Chrysene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
206-44-0	Fluoranthene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
86-73-7	Fluorene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
78-59-1	Isophorone	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-010

Lab ID: C080204-13

MD No: 4DW8 DATA C

Station ID:

Matrix: Subsurface Soil

D No: 4DW8 KAP

Date Collected: 12/13/07 15:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
87-86-5	Pentachlorophenol	390	U	ug/kg dry	390	12/17/07	12/24/07	CLP SOM01.2 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
108-95-2	Phenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
129-00-0	Pyrene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-020

Lab ID: C080204-14

MD No: 4E19 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E19 KAP

Date Collected: 12/13/07 10:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		12/17/07	12/24/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	420	U	ug/kg dry	420	12/17/07	12/24/07	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	420	U	ug/kg dry	420	12/17/07	12/24/07	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
88-74-4	2-Nitroaniline	420	U	ug/kg dry	420	12/17/07	12/24/07	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
99-09-2	3-Nitroaniline	420	U	ug/kg dry	420	12/17/07	12/24/07	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
100-01-6	4-Nitroaniline	420	U	ug/kg dry	420	12/17/07	12/24/07	CLP SOM01.2 B
100-02-7	4-Nitrophenol	420	U	ug/kg dry	420	12/17/07	12/24/07	CLP SOM01.2 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
120-12-7	Anthracene	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-020

Lab ID: C080204-14

MD No: 4E19 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E19 KAP

Date Collected: 12/13/07 10:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
86-74-8	Carbazole	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
218-01-9	Chrysene	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
206-44-0	Fluoranthene	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
86-73-7	Fluorene	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
78-59-1	Isophorone	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-020

Lab ID: C080204-14

MD No: 4E19 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E19 KAP

Date Collected: 12/13/07 10:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
87-86-5	Pentachlorophenol	420	U	ug/kg dry	420	12/17/07	12/24/07	CLP SOM01.2 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
108-95-2	Phenol	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
129-00-0	Pyrene	210	U	ug/kg dry	210	12/17/07	12/24/07	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-021

Lab ID: C080204-15

MD No: 4E20 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E20 KAP

Date Collected: 12/13/07 11:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	29		%		12/17/07	12/24/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	460	U	ug/kg dry	460	12/17/07	12/24/07	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
95-57-8	2-Chlorophenol	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	460	U	ug/kg dry	460	12/17/07	12/24/07	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
95-48-7	2-Methylphenol	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
88-74-4	2-Nitroaniline	460	U	ug/kg dry	460	12/17/07	12/24/07	CLP SOM01.2 B
88-75-5	2-Nitrophenol	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
99-09-2	3-Nitroaniline	460	U	ug/kg dry	460	12/17/07	12/24/07	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
106-47-8	4-Chloroaniline	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
100-01-6	4-Nitroaniline	460	U	ug/kg dry	460	12/17/07	12/24/07	CLP SOM01.2 B
100-02-7	4-Nitrophenol	460	U	ug/kg dry	460	12/17/07	12/24/07	CLP SOM01.2 B
83-32-9	Acenaphthene	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
208-96-8	Acenaphthylene	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
98-86-2	Acetophenone	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
120-12-7	Anthracene	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-021

Lab ID: C080204-15

MD No: 4E20 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E20 KAP

Date Collected: 12/13/07 11:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
100-52-7	Benzaldehyde	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
105-60-2	Caprolactam	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
86-74-8	Carbazole	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
218-01-9	Chrysene	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
132-64-9	Dibenzofuran	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
84-66-2	Diethyl phthalate	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
206-44-0	Fluoranthene	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
86-73-7	Fluorene	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
67-72-1	Hexachloroethane	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
78-59-1	Isophorone	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
91-20-3	Naphthalene	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
98-95-3	Nitrobenzene	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-021

Lab ID: C080204-15

MD No: 4E20 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E20 KAP

Date Collected: 12/13/07 11:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
621-64-7	n-Nitroso di-n-Propylamine	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
87-86-5	Pentachlorophenol	460	U	ug/kg dry	460	12/17/07	12/24/07	CLP SOM01.2 B
85-01-8	Phenanthrene	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
108-95-2	Phenol	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
129-00-0	Pyrene	240	U	ug/kg dry	240	12/17/07	12/24/07	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-08

Lab ID: C080204-16

MD No: 4E29 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E29 KAP

Date Collected: 12/13/07 16:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	14		%		12/17/07	12/24/07	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	380	U	ug/kg dry	380	12/17/07	12/24/07	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	12/17/07	12/24/07	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	12/17/07	12/24/07	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	12/17/07	12/24/07	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	12/17/07	12/24/07	CLP SOM01.2 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	12/17/07	12/24/07	CLP SOM01.2 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
120-12-7	Anthracene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-08

Lab ID: C080204-16

MD No: 4E29 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E29 KAP

Date Collected: 12/13/07 16:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
218-01-9	Chrysene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
206-44-0	Fluoranthene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
86-73-7	Fluorene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
78-59-1	Isophorone	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-08

Lab ID: C080204-16

MD No: 4E29 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E29 KAP

Date Collected: 12/13/07 16:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	12/17/07	12/24/07	CLP SOM01.2 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
108-95-2	Phenol	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
129-00-0	Pyrene	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	12/17/07	12/24/07	CLP SOM01.2 B



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January 30, 2008

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 08-0156, Mills Gap Road Groundwater Contamination
Superfund Remedial

FROM: Charlie Appleby
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: David Dorian

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:

Method Used:

Volatile Organics (VOA)

Volatile organic compounds

CLP VOA



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Report Narrative for Work Order C080204, Project: 08-0156

Data Review and Validation Report

Site Name: Mills Gap Road Groundwater Contamination, Asheville, NC

Case No. 37100, Project No. 08-0156, Work Order No. C080204

ELEMENT Sample Nos.: C080204-01 - C080204-21

Sampling Dates: 12/12-14/07

Inorganic Analysis: DataChem Laboratories, Salt Lake City, UT

Date Received from Lab: 01/07/08

Analyses conducted: Total metals, mercury, and cyanide

The ESAT Work Team has reviewed the above-captioned CLP data package consisting of 10 water and 10 soil samples for Total Metals analysis by ICP-AES and cyanide analysis by SOW ILM05.3, according to the contract Statement of Work and EPA guidelines. This package presents acceptable contractual and technical performance with qualifications. Further details are provided below and in the attached review summary form.

Examination of blank samples revealed apparent low-level contamination with several elements listed in Table 1 (attached to hardcopy validation report). Reported detection limits were adjusted as high as five times blank levels to discount possible false positives due to contamination.

ICP-AES Analysis

Soil matrix spiked sample recoveries for arsenic and selenium were 51 and 38% respectively. All soil sample results for arsenic and selenium were considered estimated and flagged "J".

Soil matrix spiked sample recovery for lead was -103%. All positive soil sample results for lead were considered estimated and flagged "J". All non-detected soil sample results for lead were considered unusable and flagged "R".

Soil performance evaluation sample recovery for chromium was scored as warning high by the web-based SPS Web software. All positive soil sample results for chromium were considered estimated and flagged "J".

Percent relative standard deviations were greater than 20% for plasma multiple exposures and reported results were greater than the method detection limit, but less than the contract required quantitation limit for arsenic in sample C080204-05, lead in sample C080204-02, and selenium in samples C080204-05, 06, 08, 13, and 14. The above sample result was suspected of being a potential false positive and, hence, unusable and flagged "R".

Mercury Analysis

The water performance evaluation sample result for mercury (MD4DS1) was reported as 0.029J and scored as



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action low by the web-based SPS Web software. It appears that the sample preparation technician may have taken the mercury sample from the metals PE sample rather than from the mercury PE sample provided to the laboratory. As a result, the water mercury performance evaluation sample was not used to qualify any mercury data for water samples.

Organic Analysis: KAP Technologies, Inc., The Woodlands, TX

The ESAT Work Team reviewed data for seven water samples analyzed for low/medium volatiles and semivolatiles, eight soil samples analyzed for low/medium volatiles and semivolatiles, three water samples analyzed for low/medium volatiles, and two soil samples analyzed for low/medium volatiles per CLP statement of work SOM01.2. The samples were received by the laboratory on 12/15/07, and the final data package was received on 01/07/08 by the USEPA Quality Assurance Section, Region 4 SESD/MTSB. The laboratory satisfied all technical and contractual analysis and extraction holding time requirements. The data package presents acceptable contractual and technical performance with qualifications.

Volatile analyte 1,4-dioxane was scored as warning low in the water PES and 1,2,3-trichlorobenzene was scored as warning high. The laboratory scored within warning limits for all spiked compounds in the semivolatile water PES with the exceptions of 1,1'-biphenyl and phenanthrene, which were scored as warning low, benzo(k)fluoranthene, which was scored as action low, and 4-nitrophenol, which was scored as an analyte missed. All results for benzo(k)fluoranthene and 4-nitrophenol were qualified "R" in the semivolatile water samples. All results for 1,1'-biphenyl and phenanthrene were qualified "J" in the semivolatile water samples.

The laboratory was unable to meet the minimum RRF of 0.005 for 1,4-dioxane in the initial calibration for low/medium volatile analysis. All results (all nondetects) for this compound were "J" qualified and all non-detected results were "R" qualified in the associated samples.

Deuterated monitoring compounds (DMC) are used as surrogates in each sample for GC/MS analysis to monitor extraction efficiency. Low DMC recoveries were observed in volatile samples SESD No. C080204-04 (D4DW5), C080204-18 (D4E35), C080204-20 (D4E36), and C080204-21 (D4E37). All results for the compounds associated with these DMCs were "J" qualified in these samples.

Samples C080204-17 (D4E31) and C080204-19 (D4E32) were originally reported with the incorrect percent moisture. Sample C080204-12 (D4DW6) was originally submitted with an incorrect EPA sample number. Both issues were resolved prior to data review.

Data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

cc: Nardina Turner



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SAMPLES INCLUDED IN THIS REPORT

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected	Date Received
MGGC-GW-02	C080204-01	4DS7	4DS7	Groundwater	12/14/07 10:40	12/15/07 16:36
MGGC-GW-03	C080204-02	4DS8	4DS8	Groundwater	12/14/07 11:50	12/15/07 16:36
MGGC-GW-016	C080204-03	4DW1	4DW1	Groundwater	12/14/07 11:50	12/15/07 16:36
MGGC-RB-01	C080204-04	4DW5	4DW5	Equipment Rinse Blank	12/12/07 13:30	12/15/07 16:36
MGGC-SB-01	C080204-05	4DW7	4DW7	Subsurface Soil	12/12/07 11:45	12/15/07 16:36
MGGC-SB-02	C080204-06	4E18	4E18	Subsurface Soil	12/12/07 14:00	12/15/07 16:36
MGGC-SB-022	C080204-07	4E21	4E21	Subsurface Soil	12/12/07 14:00	12/15/07 16:36
MGGC-SB-03	C080204-08	4E24	4E24	Subsurface Soil	12/12/07 14:25	12/15/07 16:36
MGGC-GW-01	C080204-10	4DS6	4DS6	Groundwater	12/13/07 11:55	12/15/07 16:36
MGGC-RB-02	C080204-12	4DW6	4DW6	Groundwater	12/13/07 14:00	12/15/07 16:36
MGGC-SB-010	C080204-13	4DW8	4DW8	Subsurface Soil	12/13/07 15:40	12/15/07 16:36
MGGC-SB-020	C080204-14	4E19	4E19	Subsurface Soil	12/13/07 10:05	12/15/07 16:36
MGGC-SB-021	C080204-15	4E20	4E20	Subsurface Soil	12/13/07 11:25	12/15/07 16:36
MGGC-SB-08	C080204-16	4E29	4E29	Subsurface Soil	12/13/07 16:30	12/15/07 16:36
MGGC-STB-01	C080204-17		4E31	Trip Blank - Soil	12/12/07 16:15	12/15/07 16:36
MGGC-WTB-01	C080204-18		4E35	Trip Blank - Water	12/12/07 16:20	12/15/07 16:36
MGGC-STB-02	C080204-19		4E32	Trip Blank - Soil	12/13/07 10:30	12/15/07 16:36
MGGC-WTB-02	C080204-20		4E36	Trip Blank - Water	12/13/07 13:20	12/15/07 16:36
MGGC-WTB-03	C080204-21		4E37	Trip Blank - Water	12/14/07 10:50	12/15/07 16:36



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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CLP07	PE sample recovery outside warning limits.
CLP15	TIC Results Reported as Identified by Lab - IDs Not Verified
CLP17	Initial Calibration Relative Response Outside Method Control Limits
J	The identification of the analyte is acceptable; the reported value is an estimate.
NJ	Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
QC-1	Analyte concentration low in continuing calibration verification standard
QS-3	Surrogate recovery is lower than established control limits.
R	The presence or absence of the analyte can not be determined from the data due to severe quality control problems. The data are rejected and considered unusable.

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - The analyte concentration which corresponds to the lowest quantitative point on the calibration curve or the lowest demonstrated level of acceptable quantitation.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-GW-02

Lab ID: C080204-01

MD No: 4DS7 DATAC

Station ID:

Matrix: Groundwater

D No: 4DS7 KAP

Date Collected: 12/14/07 10:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100	U, R, CLP17, CLP07	ug/L	100	12/19/07	12/19/07	CLP SOM01.2 V
67-64-1	Acetone	10	U	ug/L	10	12/19/07	12/19/07	CLP SOM01.2 V
71-43-2	Benzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V



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Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-GW-02

Lab ID: C080204-01

MD No: 4DS7 DATAC

Station ID:

Matrix: Groundwater

D No: 4DS7 KAP

Date Collected: 12/14/07 10:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10	U	ug/L	10	12/19/07	12/19/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/L	10	12/19/07	12/19/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/L	10	12/19/07	12/19/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
100-42-5	Styrene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
108-88-3	Toluene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	40	J, CLP15	ug/L		12/19/07	12/19/07	CLP SOM01.2 V



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 D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-GW-03

Lab ID: C080204-02

MD No: 4DS8 DATAC

Station ID:

Matrix: Groundwater

D No: 4DS8 KAP

Date Collected: 12/14/07 11:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100	U, R, CLP17, CLP07	ug/L	100	12/19/07	12/19/07	CLP SOM01.2 V
67-64-1	Acetone	10	U	ug/L	10	12/19/07	12/19/07	CLP SOM01.2 V
71-43-2	Benzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-GW-03

Lab ID: C080204-02

MD No: 4DS8 DATAC

Station ID:

Matrix: Groundwater

D No: 4DS8 KAP

Date Collected: 12/14/07 11:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10	U	ug/L	10	12/19/07	12/19/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/L	10	12/19/07	12/19/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/L	10	12/19/07	12/19/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
100-42-5	Styrene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
108-88-3	Toluene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	22		ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	40	J, CLP15	ug/L		12/19/07	12/19/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-GW-016

Lab ID: C080204-03

MD No: 4DW1 DATAC

Station ID:

Matrix: Groundwater

D No: 4DW1 KAP

Date Collected: 12/14/07 11:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100	U, R, CLP17, CLP07	ug/L	100	12/19/07	12/19/07	CLP SOM01.2 V
67-64-1	Acetone	10	U	ug/L	10	12/19/07	12/19/07	CLP SOM01.2 V
71-43-2	Benzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-GW-016

Lab ID: C080204-03

MD No: 4DW1 DATAC

Station ID:

Matrix: Groundwater

D No: 4DW1 KAP

Date Collected: 12/14/07 11:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10	U	ug/L	10	12/19/07	12/19/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/L	10	12/19/07	12/19/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/L	10	12/19/07	12/19/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
100-42-5	Styrene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
108-88-3	Toluene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	22		ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	40	J, CLP15	ug/L		12/19/07	12/19/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-RB-01

Lab ID: C080204-04

MD No: 4DW5 DATAC

Station ID:

Matrix: Equipment Rinse Blank

D No: 4DW5 KAP

Date Collected: 12/12/07 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0	U, J, QS-3	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100	U, R, CLP17, CLP07	ug/L	100	12/19/07	12/19/07	CLP SOM01.2 V
67-64-1	Acetone	10	U	ug/L	10	12/19/07	12/19/07	CLP SOM01.2 V
71-43-2	Benzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V



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 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-RB-01

Lab ID: C080204-04

MD No: 4DW5 DATAC

Station ID:

Matrix: Equipment Rinse Blank

D No: 4DW5 KAP

Date Collected: 12/12/07 13:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
10061-01-5	cis-1,3-Dichloropropene	5.0	U, J, QS-3	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10	U	ug/L	10	12/19/07	12/19/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/L	10	12/19/07	12/19/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/L	10	12/19/07	12/19/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
100-42-5	Styrene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
108-88-3	Toluene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U, J, QS-3	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	40	J, CLP15	ug/L		12/19/07	12/19/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-01

Lab ID: C080204-05

MD No: 4DW7 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4DW7 KAP

Date Collected: 12/12/07 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	11		%		12/20/07	12/20/07	CLP VOA
R4-7156	(m- and/or p-)Xylene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	97	U	ug/kg dry	97	12/20/07	12/20/07	CLP SOM01.2 V
67-64-1	Acetone	9.7	U	ug/kg dry	9.7	12/20/07	12/20/07	CLP SOM01.2 V
71-43-2	Benzene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
75-25-2	Bromoform	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
74-83-9	Bromomethane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
75-00-3	Chloroethane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
67-66-3	Chloroform	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
74-87-3	Chloromethane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-01

Lab ID: C080204-05

MD No: 4DW7 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4DW7 KAP

Date Collected: 12/12/07 11:45

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
156-59-2	cis-1,2-Dichloroethene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
10061-01-5	cis-1,3-Dichloropropene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
110-82-7	Cyclohexane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	9.7	U	ug/kg dry	9.7	12/20/07	12/20/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	9.7	U	ug/kg dry	9.7	12/20/07	12/20/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	9.7	U	ug/kg dry	9.7	12/20/07	12/20/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
95-47-6	o-Xylene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
100-42-5	Styrene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
108-88-3	Toluene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	40	J, CLP15	ug/kg dry		12/20/07	12/20/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-02

Lab ID: C080204-06

MD No: 4E18 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E18 KAP

Date Collected: 12/12/07 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		12/20/07	12/20/07	CLP VOA
R4-7156	(m- and/or p-)Xylene	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	130	U	ug/kg dry	130	12/20/07	12/20/07	CLP SOM01.2 V
67-64-1	Acetone	27		ug/kg dry	13	12/20/07	12/20/07	CLP SOM01.2 V
71-43-2	Benzene	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
75-25-2	Bromoform	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
74-83-9	Bromomethane	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
75-00-3	Chloroethane	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
67-66-3	Chloroform	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
74-87-3	Chloromethane	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-02

Lab ID: C080204-06

MD No: 4E18 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E18 KAP

Date Collected: 12/12/07 14:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
156-59-2	cis-1,2-Dichloroethene	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
10061-01-5	cis-1,3-Dichloropropene	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
110-82-7	Cyclohexane	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	13	U	ug/kg dry	13	12/20/07	12/20/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	13	U	ug/kg dry	13	12/20/07	12/20/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	13	U	ug/kg dry	13	12/20/07	12/20/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
95-47-6	o-Xylene	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
100-42-5	Styrene	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
108-88-3	Toluene	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	6.3	U	ug/kg dry	6.3	12/20/07	12/20/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	50	J, CLP15	ug/kg dry		12/20/07	12/20/07	CLP SOM01.2 V



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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-022

Lab ID: C080204-07

MD No: 4E21 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E21 KAP

Date Collected: 12/12/07 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		12/20/07	12/20/07	CLP VOA
R4-7156	(m- and/or p-)Xylene	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	120	U	ug/kg dry	120	12/20/07	12/20/07	CLP SOM01.2 V
67-64-1	Acetone	12	U	ug/kg dry	12	12/20/07	12/20/07	CLP SOM01.2 V
71-43-2	Benzene	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
75-25-2	Bromoform	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
67-66-3	Chloroform	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-022

Lab ID: C080204-07

MD No: 4E21 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E21 KAP

Date Collected: 12/12/07 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
156-59-2	cis-1,2-Dichloroethene	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
10061-01-5	cis-1,3-Dichloropropene	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	12	U	ug/kg dry	12	12/20/07	12/20/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	12	U	ug/kg dry	12	12/20/07	12/20/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	12	U	ug/kg dry	12	12/20/07	12/20/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
100-42-5	Styrene	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
108-88-3	Toluene	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.8	U	ug/kg dry	5.8	12/20/07	12/20/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	50	J, CLP15	ug/kg dry		12/20/07	12/20/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-03

Lab ID: C080204-08

MD No: 4E24 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E24 KAP

Date Collected: 12/12/07 14:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		12/20/07	12/20/07	CLP VOA
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100	U	ug/kg dry	100	12/20/07	12/20/07	CLP SOM01.2 V
67-64-1	Acetone	10	U	ug/kg dry	10	12/20/07	12/20/07	CLP SOM01.2 V
71-43-2	Benzene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-03

Lab ID: C080204-08

MD No: 4E24 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E24 KAP

Date Collected: 12/12/07 14:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10	U	ug/kg dry	10	12/20/07	12/20/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/kg dry	10	12/20/07	12/20/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/kg dry	10	12/20/07	12/20/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
100-42-5	Styrene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
108-88-3	Toluene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	40	J, CLP15	ug/kg dry		12/20/07	12/20/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-GW-01

Lab ID: C080204-10

MD No: 4DS6 DATAC

Station ID:

Matrix: Groundwater

D No: 4DS6 KAP

Date Collected: 12/13/07 11:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	500	U, R, CLP17, CLP07	ug/L	500	12/19/07	12/19/07	CLP SOM01.2 V
67-64-1	Acetone	50	U	ug/L	50	12/19/07	12/19/07	CLP SOM01.2 V
71-43-2	Benzene	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
75-25-2	Bromoform	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
74-83-9	Bromomethane	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
75-00-3	Chloroethane	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
67-66-3	Chloroform	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
74-87-3	Chloromethane	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-GW-01

Lab ID: C080204-10

MD No: 4DS6 DATAC

Station ID:

Matrix: Groundwater

D No: 4DS6 KAP

Date Collected: 12/13/07 11:55

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
156-59-2	cis-1,2-Dichloroethene	130		ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
10061-01-5	cis-1,3-Dichloropropene	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
110-82-7	Cyclohexane	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	50	U	ug/L	50	12/19/07	12/19/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	50	U	ug/L	50	12/19/07	12/19/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	50	U	ug/L	50	12/19/07	12/19/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
95-47-6	o-Xylene	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
100-42-5	Styrene	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
108-88-3	Toluene	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	1500		ug/L	100	12/19/07	12/19/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	25	U	ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	48		ug/L	25	12/19/07	12/19/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	200	J, CLP15	ug/L		12/19/07	12/19/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-RB-02

Lab ID: C080204-12

MD No: 4DW6 DATAC

Station ID:

Matrix: Groundwater

D No: 4DW6 KAP

Date Collected: 12/13/07 14:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100	U, R, CLP17, CLP07	ug/L	100	12/20/07	12/20/07	CLP SOM01.2 V
67-64-1	Acetone	10	U	ug/L	10	12/20/07	12/20/07	CLP SOM01.2 V
71-43-2	Benzene	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-RB-02

Lab ID: C080204-12

MD No: 4DW6 DATAC

Station ID:

Matrix: Groundwater

D No: 4DW6 KAP

Date Collected: 12/13/07 14:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10	U	ug/L	10	12/20/07	12/20/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/L	10	12/20/07	12/20/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/L	10	12/20/07	12/20/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
100-42-5	Styrene	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
108-88-3	Toluene	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	12/20/07	12/20/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	50	J, CLP15	ug/L		12/20/07	12/20/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-010

Lab ID: C080204-13

MD No: 4DW8 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4DW8 KAP

Date Collected: 12/13/07 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		12/20/07	12/20/07	CLP VOA
R4-7156	(m- and/or p-)Xylene	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	89	U	ug/kg dry	89	12/20/07	12/20/07	CLP SOM01.2 V
67-64-1	Acetone	8.9	U	ug/kg dry	8.9	12/20/07	12/20/07	CLP SOM01.2 V
71-43-2	Benzene	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
75-25-2	Bromoform	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
74-83-9	Bromomethane	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
75-00-3	Chloroethane	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
67-66-3	Chloroform	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
74-87-3	Chloromethane	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-010

Lab ID: C080204-13

MD No: 4DW8 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4DW8 KAP

Date Collected: 12/13/07 15:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
156-59-2	cis-1,2-Dichloroethene	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
10061-01-5	cis-1,3-Dichloropropene	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
110-82-7	Cyclohexane	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	8.9	U	ug/kg dry	8.9	12/20/07	12/20/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	8.9	U	ug/kg dry	8.9	12/20/07	12/20/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	8.9	U	ug/kg dry	8.9	12/20/07	12/20/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
95-47-6	o-Xylene	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
100-42-5	Styrene	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
108-88-3	Toluene	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	4.4	U	ug/kg dry	4.4	12/20/07	12/20/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	40	J, CLP15	ug/kg dry		12/20/07	12/20/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-020

Lab ID: C080204-14

MD No: 4E19 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E19 KAP

Date Collected: 12/13/07 10:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		12/20/07	12/20/07	CLP VOA
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100	U	ug/kg dry	100	12/20/07	12/20/07	CLP SOM01.2 V
67-64-1	Acetone	10	U	ug/kg dry	10	12/20/07	12/20/07	CLP SOM01.2 V
71-43-2	Benzene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-020

Lab ID: C080204-14

MD No: 4E19 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E19 KAP

Date Collected: 12/13/07 10:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10	U	ug/kg dry	10	12/20/07	12/20/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/kg dry	10	12/20/07	12/20/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/kg dry	10	12/20/07	12/20/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
100-42-5	Styrene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
108-88-3	Toluene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	40	J, CLP15	ug/kg dry		12/20/07	12/20/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-021

Lab ID: C080204-15

MD No: 4E20 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E20 KAP

Date Collected: 12/13/07 11:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	29		%		12/20/07	12/20/07	CLP VOA
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100	U	ug/kg dry	100	12/20/07	12/20/07	CLP SOM01.2 V
67-64-1	Acetone	10	U	ug/kg dry	10	12/20/07	12/20/07	CLP SOM01.2 V
71-43-2	Benzene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-021

Lab ID: C080204-15

MD No: 4E20 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E20 KAP

Date Collected: 12/13/07 11:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10	U	ug/kg dry	10	12/20/07	12/20/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/kg dry	10	12/20/07	12/20/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/kg dry	10	12/20/07	12/20/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
100-42-5	Styrene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
108-88-3	Toluene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0	U	ug/kg dry	5.0	12/20/07	12/20/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	40	J, CLP15	ug/kg dry		12/20/07	12/20/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-08

Lab ID: C080204-16

MD No: 4E29 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E29 KAP

Date Collected: 12/13/07 16:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	14		%		12/20/07	12/20/07	CLP VOA
R4-7156	(m- and/or p-)Xylene	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	87	U	ug/kg dry	87	12/20/07	12/20/07	CLP SOM01.2 V
67-64-1	Acetone	8.7	U	ug/kg dry	8.7	12/20/07	12/20/07	CLP SOM01.2 V
71-43-2	Benzene	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
75-25-2	Bromoform	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
74-83-9	Bromomethane	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
75-00-3	Chloroethane	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
67-66-3	Chloroform	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
74-87-3	Chloromethane	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V



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 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-SB-08

Lab ID: C080204-16

MD No: 4E29 DATAC

Station ID:

Matrix: Subsurface Soil

D No: 4E29 KAP

Date Collected: 12/13/07 16:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
156-59-2	cis-1,2-Dichloroethene	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
10061-01-5	cis-1,3-Dichloropropene	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
110-82-7	Cyclohexane	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	8.7	U	ug/kg dry	8.7	12/20/07	12/20/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	8.7	U	ug/kg dry	8.7	12/20/07	12/20/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	8.7	U	ug/kg dry	8.7	12/20/07	12/20/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
95-47-6	o-Xylene	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
100-42-5	Styrene	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
108-88-3	Toluene	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	4.3	U	ug/kg dry	4.3	12/20/07	12/20/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	40	J, CLP15	ug/kg dry		12/20/07	12/20/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-STB-01

Lab ID: C080204-17

MD No:

Station ID:

Matrix: Trip Blank - Soil

D No: 4E31 KAP

Date Collected: 12/12/07 16:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		12/20/07	12/20/07	CLP VOA
R4-7156	(m- and/or p-)Xylene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	97	U	ug/kg dry	97	12/20/07	12/20/07	CLP SOM01.2 V
67-64-1	Acetone	9.7	U	ug/kg dry	9.7	12/20/07	12/20/07	CLP SOM01.2 V
71-43-2	Benzene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
75-25-2	Bromoform	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
74-83-9	Bromomethane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
75-00-3	Chloroethane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
67-66-3	Chloroform	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
74-87-3	Chloromethane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-STB-01

Lab ID: C080204-17

MD No:

Station ID:

Matrix: Trip Blank - Soil

D No: 4E31 KAP

Date Collected: 12/12/07 16:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
156-59-2	cis-1,2-Dichloroethene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
10061-01-5	cis-1,3-Dichloropropene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
110-82-7	Cyclohexane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	9.7	U	ug/kg dry	9.7	12/20/07	12/20/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	9.7	U	ug/kg dry	9.7	12/20/07	12/20/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	9.7	U	ug/kg dry	9.7	12/20/07	12/20/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
95-47-6	o-Xylene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
100-42-5	Styrene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
108-88-3	Toluene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	4.8	U	ug/kg dry	4.8	12/20/07	12/20/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	40	J, CLP15	ug/kg dry		12/20/07	12/20/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-WTB-01

Lab ID: C080204-18

MD No:

Station ID:

Matrix: Trip Blank - Water

D No: 4E35 KAP

Date Collected: 12/12/07 16:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0	U, J, QS-3	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100	U	ug/L	100	12/19/07	12/19/07	CLP SOM01.2 V
67-64-1	Acetone	10	U	ug/L	10	12/19/07	12/19/07	CLP SOM01.2 V
71-43-2	Benzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-WTB-01

Lab ID: C080204-18

MD No:

Station ID:

Matrix: Trip Blank - Water

D No: 4E35 KAP

Date Collected: 12/12/07 16:20

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
10061-01-5	cis-1,3-Dichloropropene	5.0	U, J, QS-3	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10	U	ug/L	10	12/19/07	12/19/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/L	10	12/19/07	12/19/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/L	10	12/19/07	12/19/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
100-42-5	Styrene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
108-88-3	Toluene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U, J, QS-3	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	40	J, CLP15	ug/L		12/19/07	12/19/07	CLP SOM01.2 V



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-STB-02

Lab ID: C080204-19

MD No:

Station ID:

Matrix: Trip Blank - Soil

D No: 4E32 KAP

Date Collected: 12/13/07 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		12/20/07	12/20/07	CLP VOA
R4-7156	(m- and/or p-)Xylene	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	92	U	ug/kg dry	92	12/20/07	12/20/07	CLP SOM01.2 V
67-64-1	Acetone	9.2	U	ug/kg dry	9.2	12/20/07	12/20/07	CLP SOM01.2 V
71-43-2	Benzene	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
75-25-2	Bromoform	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
74-83-9	Bromomethane	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
75-00-3	Chloroethane	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
67-66-3	Chloroform	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
74-87-3	Chloromethane	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-STB-02

Lab ID: C080204-19

MD No:

Station ID:

D No: 4E32 KAP

Matrix: Trip Blank - Soil

Date Collected: 12/13/07 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
156-59-2	cis-1,2-Dichloroethene	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
10061-01-5	cis-1,3-Dichloropropene	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
110-82-7	Cyclohexane	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	9.2	U	ug/kg dry	9.2	12/20/07	12/20/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	9.2	U	ug/kg dry	9.2	12/20/07	12/20/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	9.2	U	ug/kg dry	9.2	12/20/07	12/20/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
95-47-6	o-Xylene	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
100-42-5	Styrene	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
108-88-3	Toluene	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	4.6	U	ug/kg dry	4.6	12/20/07	12/20/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	30	J, CLP15	ug/kg dry		12/20/07	12/20/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-WTB-02

Lab ID: C080204-20

MD No:

Station ID:

Matrix: Trip Blank - Water

D No: 4E36 KAP

Date Collected: 12/13/07 13:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0	U, J, QS-3	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100	U, R, CLP17, CLP07	ug/L	100	12/19/07	12/19/07	CLP SOM01.2 V
67-64-1	Acetone	10	U	ug/L	10	12/19/07	12/19/07	CLP SOM01.2 V
71-43-2	Benzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-WTB-02

Lab ID: C080204-20

MD No:

Station ID:

Matrix: Trip Blank - Water

D No: 4E36 KAP

Date Collected: 12/13/07 13:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
10061-01-5	cis-1,3-Dichloropropene	5.0	U, J, QS-3	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10	U	ug/L	10	12/19/07	12/19/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/L	10	12/19/07	12/19/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/L	10	12/19/07	12/19/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
100-42-5	Styrene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
108-88-3	Toluene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U, J, QS-3	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	12/19/07	12/19/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
556-67-2	Cyclotetrasiloxane, octamethyl-	30	NJ, CLP15	ug/L		12/19/07	12/19/07	CLP SOM01.2 V
541-05-9	Cyclotrisiloxane, hexamethyl-	5	NJ, CLP15	ug/L		12/19/07	12/19/07	CLP SOM01.2 V
R4-6501	Unidentified Compound(s)	40	J, CLP15	ug/L		12/19/07	12/19/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-WTB-03

Lab ID: C080204-21

MD No:

Station ID:

Matrix: Trip Blank - Water

D No: 4E37 KAP

Date Collected: 12/14/07 10:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U, J, QS-3	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100	U	ug/L	100	12/23/07	12/23/07	CLP SOM01.2 V
67-64-1	Acetone	10	U	ug/L	10	12/23/07	12/23/07	CLP SOM01.2 V
71-43-2	Benzene	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0	U, J, QC-1	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.0	U, J, QS-3	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V



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 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Volatile Organics

Project: 08-0156, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37100

Sample ID: MGGC-WTB-03

Lab ID: C080204-21

MD No:

Station ID:

Matrix: Trip Blank - Water

D No: 4E37 KAP

Date Collected: 12/14/07 10:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10	U	ug/L	10	12/23/07	12/23/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/L	10	12/23/07	12/23/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/L	10	12/23/07	12/23/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
100-42-5	Styrene	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
108-88-3	Toluene	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0	U, J, QS-3	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	12/23/07	12/23/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
556-67-2	Cyclotetrasiloxane, octamethyl-	6	NJ, CLP15	ug/L		12/23/07	12/23/07	CLP SOM01.2 V
R4-6501	Unidentified Compound(s)	40	J, CLP15	ug/L		12/23/07	12/23/07	CLP SOM01.2 V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

February 20, 2008

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 08-0206, Mills Gap Road Groundwater Contamination
Superfund Remedial

FROM: Charlie Appleby
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: David Dorian

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:

Method Used:

Semi Volatile Organics (SVOA)

Semivolatile organic compounds

CLP BNA



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Report Narrative for Work Order C080401, Project: 08-0206
Data Review and Validation Report
Site Name: Mills Gap Groundwater Contamination, Ashville, NC
Case No. 37159
ELEMENT Sample Ids: C080401-01 - C080401-16
Sampling Dates: 01/15-16/08

Inorganic Analysis: Chemtech Consulting Group, Mountainside, NJ
Date Received from Lab: 01/25/08
Analyses conducted: Total metals, mercury, and cyanide

The ESAT Work Team has reviewed the above-captioned CLP data package consisting of nine water and 11 soil samples for Total Metals analysis by ICP-AES and cyanide analysis by SOW ILM05.3, according to the contract Statement of Work and EPA guidelines. This package presents acceptable contractual and technical performance with qualifications. Further details are provided below and in the attached review summary form.

Examination of blank samples revealed apparent low-level contamination with several elements listed in Table 1 (attached to hardcopy data validation report). Reported detection limits were adjusted as high as five times blank levels to discount possible false positives due to contamination.

ICP-AES Analysis

Water matrix spiked sample recovery for silver was 147%. All positive water sample results for silver were considered estimated and flagged "J".

Soil matrix spiked sample recovery for silver was 144%. All positive soil sample results for silver were considered estimated and flagged "J".

The percent relative standard deviation was greater than 20% for plasma multiple exposures and reported result was greater than the method detection limit but less than the contract required quantitation limit for cadmium in sample C080401-03. The above sample result was suspected of being a potential false positive and, hence, unusable and flagged "R".

Water performance evaluation sample recovery for barium was scored as action high by the web-based SPS Web software. All positive water sample results for barium were considered estimated and flagged "J".

Organic Analysis: KAP Technologies, Inc., Woodlands, TX

The ESAT Work Team reviewed data for eighteen water and thirty-eight soil samples analyzed for organic volatiles, semivolatile extractables, pesticides, and aroclors per CLP statement of work SOM01.2. The samples were collected between 01/15/08 and 01/16/08, were received by the laboratory between 01/16/08 and 01/17/08,



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and the last data package was received on 01/23/08 by the USEPA Quality Assurance Section, Region 4 SESD/MTSB. The laboratory satisfied all technical and contractual analysis and extraction holding time requirements. The data package presents acceptable contractual and technical performance with qualifications.

The semivolatile target analyte (bis(2-ethylhexyl)phthalate) was scored as a PES contaminant above the CRQL in the soil semivolatile extractable performance evaluation sample (PES). All PES contaminants were treated as method blank contaminants during data qualification.

Deuterated monitoring compounds (DMC) are used as surrogates in each sample for GC/MS analysis to monitor extraction efficiency. All results for analytes associated with the low DMC 4-chloroaniline-d4 recovery (1%) were "J" qualified in water sample C080401-02 (D4EB0). The acceptance limits for this DMC are 1-145%. Additionally all analyte results associated with low DMC recoveries were "J" qualified in water samples C080401-11 (D4EC4), C080401-12 (D4EC6), C080401-13 (D4EC7), and C080401-14 (D4CE8) and soil samples C080401-05 (D4EB4), C080401-08 (D4EB8), and C080401-15 (D4EC2).

Three semivolatile extractable compounds were "J" qualified due to erratic continuing calibration performance.

Data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

cc: Nardina Turner



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SAMPLES INCLUDED IN THIS REPORT

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected	Date Received
MGGC-RB-03	C080401-02	4EB0	4EB0	Equipment Rinse Blank	1/15/08 08:15	1/17/08 17:45
MGGC-SB-09	C080401-03	4EB2	4EB2	Subsurface Soil	1/15/08 09:10	1/17/08 17:45
MGGC-SB-07	C080401-04	4EB3	4EB3	Subsurface Soil	1/15/08 11:05	1/17/08 17:45
MGGC-SB-023	C080401-05	4EB4	4EB4	Subsurface Soil	1/15/08 11:05	1/17/08 17:45
MGGC-SB-016	C080401-06	4EB6	4EB6	Subsurface Soil	1/15/08 13:00	1/17/08 17:45
MGGC-RB-04	C080401-07	4EB7	4EB7	Equipment Rinse Blank	1/15/08 13:35	1/17/08 17:45
MGGC-SB-017	C080401-08	4EB8	4EB8	Subsurface Soil	1/15/08 14:15	1/17/08 17:45
MGGC-SB-05	C080401-09	4EB9	4EB9	Subsurface Soil	1/15/08 15:10	1/17/08 17:45
MGGC-SB-06	C080401-10	4EC0	4EC0	Subsurface Soil	1/15/08 15:35	1/17/08 17:45
MGGC-GW-06	C080401-11	4EC4	4EC4	Groundwater	1/16/08 13:35	1/17/08 17:45
MGGC-GW-04	C080401-12	4EC6	4EC6	Groundwater	1/16/08 14:40	1/17/08 17:45
MGGC-GW-017	C080401-13	4EC7	4EC7	Groundwater	1/16/08 14:40	1/17/08 17:45
MGGC-GW-05	C080401-14	4EC8	4EC8	Groundwater	1/16/08 15:40	1/17/08 17:45
MGGC-SB-011	C080401-15	4EC2	4EC2	Subsurface Soil	1/16/08 10:15	1/17/08 17:45
MGGC-SB-04	C080401-16	4EC3	4EC3	Subsurface Soil	1/16/08 11:15	1/17/08 17:45



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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CLP15	TIC Results Reported as Identified by Lab - IDs Not Verified
J	The identification of the analyte is acceptable; the reported value is an estimate.
N	There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification.
NJ	Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
QC-1	Analyte concentration low in continuing calibration verification standard
QS-3	Surrogate recovery is lower than established control limits.
QS-4	Surrogate recovery less than 10%

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - The analyte concentration which corresponds to the lowest quantitative point on the calibration curve or the lowest demonstrated level of acceptable quantitation.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-RB-03Lab ID: C080401-02

MD No: 4EB0 CHEM

Station ID:

Matrix: Equipment Rinse Blank

D No: 4EB0 KAP

Date Collected: 1/15/08 8:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U, J, QC-1	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U, J, QC-1	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U, J, QS-4	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U, J, QS-4	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B



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D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-RB-03

Lab ID: C080401-02

MD No: 4EB0 CHEM

Station ID:

Matrix: Equipment Rinse Blank

D No: 4EB0 KAP

Date Collected: 1/15/08 8:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U, J, QS-4, QC-1	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B



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Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-RB-03

Lab ID: C080401-02

MD No: 4EB0 CHEM

Station ID:

Matrix: Equipment Rinse Blank

D No: 4EB0 KAP

Date Collected: 1/15/08 8:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
108-95-2	Phenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	30	J, CLP15	ug/L		1/17/08	1/18/08	CLP SOM01.2 B



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Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-SB-09

Lab ID: C080401-03

MD No: 4EB2 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EB2 KAP

Date Collected: 1/15/08 9:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		1/18/08	1/19/08	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	420	U, J, QC-1	ug/kg dry	420	1/18/08	1/19/08	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	420	U	ug/kg dry	420	1/18/08	1/19/08	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
88-74-4	2-Nitroaniline	420	U	ug/kg dry	420	1/18/08	1/19/08	CLP SOM01.2 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
99-09-2	3-Nitroaniline	420	U	ug/kg dry	420	1/18/08	1/19/08	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
106-47-8	4-Chloroaniline	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
100-01-6	4-Nitroaniline	420	U	ug/kg dry	420	1/18/08	1/19/08	CLP SOM01.2 B
100-02-7	4-Nitrophenol	420	U	ug/kg dry	420	1/18/08	1/19/08	CLP SOM01.2 B
83-32-9	Acenaphthene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
208-96-8	Acenaphthylene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
98-86-2	Acetophenone	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
120-12-7	Anthracene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-SB-09

Lab ID: C080401-03

MD No: 4EB2 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EB2 KAP

Date Collected: 1/15/08 9:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
100-52-7	Benzaldehyde	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
86-74-8	Carbazole	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
218-01-9	Chrysene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
206-44-0	Fluoranthene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
86-73-7	Fluorene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U, J, QC-1	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
78-59-1	Isophorone	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
91-20-3	Naphthalene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B



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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-SB-09

Lab ID: C080401-03

MD No: 4EB2 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EB2 KAP

Date Collected: 1/15/08 9:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
87-86-5	Pentachlorophenol	420	U	ug/kg dry	420	1/18/08	1/19/08	CLP SOM01.2 B
85-01-8	Phenanthrene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
108-95-2	Phenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
129-00-0	Pyrene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
Tentatively Identified Compounds:								
112-84-5	13-Docosenamide, (Z)-	400	NJ, CLP15	ug/kg dry		1/18/08	1/19/08	CLP SOM01.2 B
198-55-0	Perylene	200	NJ, CLP15	ug/kg dry		1/18/08	1/19/08	CLP SOM01.2 B



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Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-SB-07

Lab ID: C080401-04

MD No: 4EB3 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EB3 KAP

Date Collected: 1/15/08 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		1/18/08	1/19/08	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	390	U, J, QC-1	ug/kg dry	390	1/18/08	1/19/08	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	1/18/08	1/19/08	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	1/18/08	1/19/08	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	1/18/08	1/19/08	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	1/18/08	1/19/08	CLP SOM01.2 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	1/18/08	1/19/08	CLP SOM01.2 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
120-12-7	Anthracene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B



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Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-SB-07Lab ID: C080401-04

MD No: 4EB3 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EB3 KAP

Date Collected: 1/15/08 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
218-01-9	Chrysene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
206-44-0	Fluoranthene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
86-73-7	Fluorene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U, J, QC-1	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
78-59-1	Isophorone	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B



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Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-SB-07

Lab ID: C080401-04

MD No: 4EB3 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EB3 KAP

Date Collected: 1/15/08 11:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
87-86-5	Pentachlorophenol	390	U	ug/kg dry	390	1/18/08	1/19/08	CLP SOM01.2 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
108-95-2	Phenol	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
129-00-0	Pyrene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
Tentatively Identified Compounds:								
1000286-67-6	3-Dimethylamino-2-(4-chlorophenyl)-thioacrylamide	400	NJ, CLP15	ug/kg dry		1/18/08	1/19/08	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	500	J, CLP15	ug/kg dry		1/18/08	1/19/08	CLP SOM01.2 B



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Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-SB-023

Lab ID: C080401-05

MD No: 4EB4 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EB4 KAP

Date Collected: 1/15/08 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		1/18/08	1/19/08	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	380	U, J, QC-1	ug/kg dry	380	1/18/08	1/19/08	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	1/18/08	1/19/08	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	1/18/08	1/19/08	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	1/18/08	1/19/08	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	1/18/08	1/19/08	CLP SOM01.2 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	1/18/08	1/19/08	CLP SOM01.2 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
120-12-7	Anthracene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B



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Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-SB-023

Lab ID: C080401-05

MD No: 4EB4 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EB4 KAP

Date Collected: 1/15/08 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	200	U, J, QS-3	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
218-01-9	Chrysene	200	U, J, QS-3	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
206-44-0	Fluoranthene	200	U, J, QS-3	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
86-73-7	Fluorene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U, J, QC-1	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
78-59-1	Isophorone	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-SB-023

Lab ID: C080401-05

MD No: 4EB4 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EB4 KAP

Date Collected: 1/15/08 11:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	1/18/08	1/19/08	CLP SOM01.2 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
108-95-2	Phenol	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
129-00-0	Pyrene	200	U, J, QS-3	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B
Tentatively Identified Compounds:								
112-84-5	13-Docosenamide, (Z)-	300	NJ, CLP15	ug/kg dry		1/18/08	1/19/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-SB-016

Lab ID: C080401-06

MD No: 4EB6 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EB6 KAP

Date Collected: 1/15/08 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	20		%		1/18/08	1/19/08	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	410	U, J, QC-1	ug/kg dry	410	1/18/08	1/19/08	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	410	U	ug/kg dry	410	1/18/08	1/19/08	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
88-74-4	2-Nitroaniline	410	U	ug/kg dry	410	1/18/08	1/19/08	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	1/18/08	1/19/08	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	1/18/08	1/19/08	CLP SOM01.2 B
100-02-7	4-Nitrophenol	410	U	ug/kg dry	410	1/18/08	1/19/08	CLP SOM01.2 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
120-12-7	Anthracene	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-SB-016

Lab ID: C080401-06

MD No: 4EB6 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EB6 KAP

Date Collected: 1/15/08 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
86-74-8	Carbazole	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
218-01-9	Chrysene	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
206-44-0	Fluoranthene	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
86-73-7	Fluorene	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U, J, QC-1	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
78-59-1	Isophorone	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-SB-016

Lab ID: C080401-06

MD No: 4EB6 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EB6 KAP

Date Collected: 1/15/08 13:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
87-86-5	Pentachlorophenol	410	U	ug/kg dry	410	1/18/08	1/19/08	CLP SOM01.2 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
108-95-2	Phenol	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
129-00-0	Pyrene	210	U	ug/kg dry	210	1/18/08	1/19/08	CLP SOM01.2 B
Tentatively Identified Compounds:								
112-84-5	13-Docosenamide, (Z)-	400	NJ, CLP15	ug/kg dry		1/18/08	1/19/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-RB-04

Lab ID: C080401-07

MD No: 4EB7 CHEM

Station ID:

Matrix: Equipment Rinse Blank

D No: 4EB7 KAP

Date Collected: 1/15/08 13:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U, J, QC-1	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U, J, QC-1	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-RB-04

Lab ID: C080401-07

MD No: 4EB7 CHEM

Station ID:

Matrix: Equipment Rinse Blank

D No: 4EB7 KAP

Date Collected: 1/15/08 13:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	9.8		ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U, J, QC-1	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-RB-04

Lab ID: C080401-07

MD No: 4EB7 CHEM

Station ID:

Matrix: Equipment Rinse Blank

D No: 4EB7 KAP

Date Collected: 1/15/08 13:35

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
108-95-2	Phenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	20	J, CLP15	ug/L		1/17/08	1/18/08	CLP SOM01.2 B



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 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-SB-017

Lab ID: C080401-08

MD No: 4EB8 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EB8 KAP

Date Collected: 1/15/08 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	28		%		1/18/08	1/19/08	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	460	U, J, QC-1	ug/kg dry	460	1/18/08	1/19/08	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
95-57-8	2-Chlorophenol	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	460	U	ug/kg dry	460	1/18/08	1/19/08	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
95-48-7	2-Methylphenol	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
88-74-4	2-Nitroaniline	460	U	ug/kg dry	460	1/18/08	1/19/08	CLP SOM01.2 B
88-75-5	2-Nitrophenol	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
99-09-2	3-Nitroaniline	460	U	ug/kg dry	460	1/18/08	1/19/08	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
106-47-8	4-Chloroaniline	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
100-01-6	4-Nitroaniline	460	U	ug/kg dry	460	1/18/08	1/19/08	CLP SOM01.2 B
100-02-7	4-Nitrophenol	460	U	ug/kg dry	460	1/18/08	1/19/08	CLP SOM01.2 B
83-32-9	Acenaphthene	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
208-96-8	Acenaphthylene	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
98-86-2	Acetophenone	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
120-12-7	Anthracene	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-SB-017

Lab ID: C080401-08

MD No: 4EB8 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EB8 KAP

Date Collected: 1/15/08 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
100-52-7	Benzaldehyde	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	240	U, J, QS-3	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
105-60-2	Caprolactam	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
86-74-8	Carbazole	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
218-01-9	Chrysene	240	U, J, QS-3	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
132-64-9	Dibenzofuran	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
84-66-2	Diethyl phthalate	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
206-44-0	Fluoranthene	240	U, J, QS-3	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
86-73-7	Fluorene	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	240	U, J, QC-1	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
67-72-1	Hexachloroethane	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
78-59-1	Isophorone	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
91-20-3	Naphthalene	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
98-95-3	Nitrobenzene	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-SB-017

Lab ID: C080401-08

MD No: 4EB8 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EB8 KAP

Date Collected: 1/15/08 14:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
621-64-7	n-Nitroso di-n-Propylamine	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
87-86-5	Pentachlorophenol	460	U	ug/kg dry	460	1/18/08	1/19/08	CLP SOM01.2 B
85-01-8	Phenanthrene	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
108-95-2	Phenol	240	U	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
129-00-0	Pyrene	240	U, J, QS-3	ug/kg dry	240	1/18/08	1/19/08	CLP SOM01.2 B
Tentatively Identified Compounds:								
112-84-5	13-Docosenamide, (Z)-	400	NJ, CLP15	ug/kg dry		1/18/08	1/19/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-SB-05

Lab ID: C080401-09

MD No: 4EB9 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EB9 KAP

Date Collected: 1/15/08 15:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	25		%		1/18/08	1/19/08	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	440	U, J, QC-1	ug/kg dry	440	1/18/08	1/19/08	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	440	U	ug/kg dry	440	1/18/08	1/19/08	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
88-74-4	2-Nitroaniline	440	U	ug/kg dry	440	1/18/08	1/19/08	CLP SOM01.2 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
99-09-2	3-Nitroaniline	440	U	ug/kg dry	440	1/18/08	1/19/08	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
106-47-8	4-Chloroaniline	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
100-01-6	4-Nitroaniline	440	U	ug/kg dry	440	1/18/08	1/19/08	CLP SOM01.2 B
100-02-7	4-Nitrophenol	440	U	ug/kg dry	440	1/18/08	1/19/08	CLP SOM01.2 B
83-32-9	Acenaphthene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
208-96-8	Acenaphthylene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
98-86-2	Acetophenone	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
120-12-7	Anthracene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-SB-05Lab ID: C080401-09

MD No: 4EB9 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EB9 KAP

Date Collected: 1/15/08 15:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
100-52-7	Benzaldehyde	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
86-74-8	Carbazole	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
218-01-9	Chrysene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
206-44-0	Fluoranthene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
86-73-7	Fluorene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U, J, QC-1	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
78-59-1	Isophorone	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
91-20-3	Naphthalene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-SB-05

Lab ID: C080401-09

MD No: 4EB9 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EB9 KAP

Date Collected: 1/15/08 15:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
87-86-5	Pentachlorophenol	440	U	ug/kg dry	440	1/18/08	1/19/08	CLP SOM01.2 B
85-01-8	Phenanthrene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
108-95-2	Phenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
129-00-0	Pyrene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
Tentatively Identified Compounds:								
112-84-5	13-Docosenamide, (Z)-	700	NJ, CLP15	ug/kg dry		1/18/08	1/19/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-SB-06

Lab ID: C080401-10

MD No: 4EC0 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EC0 KAP

Date Collected: 1/15/08 15:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		1/18/08	1/19/08	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	420	U, J, QC-1	ug/kg dry	420	1/18/08	1/19/08	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	420	U	ug/kg dry	420	1/18/08	1/19/08	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
88-74-4	2-Nitroaniline	420	U	ug/kg dry	420	1/18/08	1/19/08	CLP SOM01.2 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
99-09-2	3-Nitroaniline	420	U	ug/kg dry	420	1/18/08	1/19/08	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
106-47-8	4-Chloroaniline	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
100-01-6	4-Nitroaniline	420	U	ug/kg dry	420	1/18/08	1/19/08	CLP SOM01.2 B
100-02-7	4-Nitrophenol	420	U	ug/kg dry	420	1/18/08	1/19/08	CLP SOM01.2 B
83-32-9	Acenaphthene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
208-96-8	Acenaphthylene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
98-86-2	Acetophenone	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
120-12-7	Anthracene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-SB-06

Lab ID: C080401-10

MD No: 4EC0 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EC0 KAP

Date Collected: 1/15/08 15:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
100-52-7	Benzaldehyde	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
86-74-8	Carbazole	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
218-01-9	Chrysene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
206-44-0	Fluoranthene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
86-73-7	Fluorene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U, J, QC-1	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
78-59-1	Isophorone	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
91-20-3	Naphthalene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-SB-06

Lab ID: C080401-10

MD No: 4EC0 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EC0 KAP

Date Collected: 1/15/08 15:35

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
87-86-5	Pentachlorophenol	420	U	ug/kg dry	420	1/18/08	1/19/08	CLP SOM01.2 B
85-01-8	Phenanthrene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
108-95-2	Phenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
129-00-0	Pyrene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
Tentatively Identified Compounds:								
112-84-5	13-Docosenamide, (Z)-	400	NJ, CLP15	ug/kg dry		1/18/08	1/19/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-GW-06

Lab ID: C080401-11

MD No: 4EC4 CHEM

Station ID:

Matrix: Groundwater

D No: 4EC4 KAP

Date Collected: 1/16/08 13:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U, J, QC-1	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U, J, QC-1	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
120-12-7	Anthracene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
1912-24-9	Atrazine	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-GW-06

Lab ID: C080401-11

MD No: 4EC4 CHEM

Station ID:

Matrix: Groundwater

D No: 4EC4 KAP

Date Collected: 1/16/08 13:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
218-01-9	Chrysene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
206-44-0	Fluoranthene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U, J, QC-1	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-GW-06

Lab ID: C080401-11

MD No: 4EC4 CHEM

Station ID:

Matrix: Groundwater

D No: 4EC4 KAP

Date Collected: 1/16/08 13:35

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
85-01-8	Phenanthrene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
108-95-2	Phenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
129-00-0	Pyrene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	30	J, CLP15	ug/L		1/17/08	1/18/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-GW-04

Lab ID: C080401-12

MD No: 4EC6 CHEM

Station ID:

Matrix: Groundwater

D No: 4EC6 KAP

Date Collected: 1/16/08 14:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U, J, QC-1	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U, J, QC-1	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-GW-04

Lab ID: C080401-12

MD No: 4EC6 CHEM

Station ID:

Matrix: Groundwater

D No: 4EC6 KAP

Date Collected: 1/16/08 14:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U, J, QC-1	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-GW-04

Lab ID: C080401-12

MD No: 4EC6 CHEM

Station ID:

Matrix: Groundwater

D No: 4EC6 KAP

Date Collected: 1/16/08 14:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
108-95-2	Phenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
Tentatively Identified Compounds:								
112-84-5	13-Docosenamide, (Z)-	6	NJ, CLP15	ug/L		1/17/08	1/18/08	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	8	J, CLP15	ug/L		1/17/08	1/18/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-GW-017

Lab ID: C080401-13

MD No: 4EC7 CHEM

Station ID:

Matrix: Groundwater

D No: 4EC7 KAP

Date Collected: 1/16/08 14:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U, J, QC-1	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U, J, QC-1	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-GW-017

Lab ID: C080401-13

MD No: 4EC7 CHEM

Station ID:

Matrix: Groundwater

D No: 4EC7 KAP

Date Collected: 1/16/08 14:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U, J, QC-1	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-GW-017

Lab ID: C080401-13

MD No: 4EC7 CHEM

Station ID:

Matrix: Groundwater

D No: 4EC7 KAP

Date Collected: 1/16/08 14:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
108-95-2	Phenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	5	J, CLP15	ug/L		1/17/08	1/18/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-GW-05

Lab ID: C080401-14

MD No: 4EC8 CHEM

Station ID:

Matrix: Groundwater

D No: 4EC8 KAP

Date Collected: 1/16/08 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U, J, QC-1	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U, J, QC-1	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-GW-05

Lab ID: C080401-14

MD No: 4EC8 CHEM

Station ID:

Matrix: Groundwater

D No: 4EC8 KAP

Date Collected: 1/16/08 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U, J, QC-1	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QS-3	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-GW-05

Lab ID: C080401-14

MD No: 4EC8 CHEM

Station ID:

Matrix: Groundwater

D No: 4EC8 KAP

Date Collected: 1/16/08 15:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	1/17/08	1/18/08	CLP SOM01.2 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
108-95-2	Phenol	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	30	J, CLP15	ug/L		1/17/08	1/18/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-SB-011

Lab ID: C080401-15

MD No: 4EC2 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EC2 KAP

Date Collected: 1/16/08 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	24		%		1/18/08	1/19/08	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	430	U, J, QC-1	ug/kg dry	430	1/18/08	1/19/08	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	430	U	ug/kg dry	430	1/18/08	1/19/08	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
88-74-4	2-Nitroaniline	430	U	ug/kg dry	430	1/18/08	1/19/08	CLP SOM01.2 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
99-09-2	3-Nitroaniline	430	U	ug/kg dry	430	1/18/08	1/19/08	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
106-47-8	4-Chloroaniline	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
100-01-6	4-Nitroaniline	430	U	ug/kg dry	430	1/18/08	1/19/08	CLP SOM01.2 B
100-02-7	4-Nitrophenol	430	U	ug/kg dry	430	1/18/08	1/19/08	CLP SOM01.2 B
83-32-9	Acenaphthene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
208-96-8	Acenaphthylene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
98-86-2	Acetophenone	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
120-12-7	Anthracene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-SB-011

Lab ID: C080401-15

MD No: 4EC2 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EC2 KAP

Date Collected: 1/16/08 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
100-52-7	Benzaldehyde	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	220	U, J, QS-3	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
86-74-8	Carbazole	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
218-01-9	Chrysene	220	U, J, QS-3	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
206-44-0	Fluoranthene	220	U, J, QS-3	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
86-73-7	Fluorene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U, J, QC-1	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
78-59-1	Isophorone	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
91-20-3	Naphthalene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B



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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-SB-011

Lab ID: C080401-15

MD No: 4EC2 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EC2 KAP

Date Collected: 1/16/08 10:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
87-86-5	Pentachlorophenol	430	U	ug/kg dry	430	1/18/08	1/19/08	CLP SOM01.2 B
85-01-8	Phenanthrene	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
108-95-2	Phenol	220	U	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
129-00-0	Pyrene	220	U, J, QS-3	ug/kg dry	220	1/18/08	1/19/08	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	1/18/08	1/19/08	CLP SOM01.2 B



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 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-SB-04

Lab ID: C080401-16

MD No: 4EC3 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EC3 KAP

Date Collected: 1/16/08 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	25		%		1/18/08	1/19/08	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	440	U, J, QC-1	ug/kg dry	440	1/18/08	1/19/08	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
95-57-8	2-Chlorophenol	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	440	U	ug/kg dry	440	1/18/08	1/19/08	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
95-48-7	2-Methylphenol	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
88-74-4	2-Nitroaniline	440	U	ug/kg dry	440	1/18/08	1/19/08	CLP SOM01.2 B
88-75-5	2-Nitrophenol	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
99-09-2	3-Nitroaniline	440	U	ug/kg dry	440	1/18/08	1/19/08	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
106-47-8	4-Chloroaniline	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
100-01-6	4-Nitroaniline	440	U	ug/kg dry	440	1/18/08	1/19/08	CLP SOM01.2 B
100-02-7	4-Nitrophenol	440	U	ug/kg dry	440	1/18/08	1/19/08	CLP SOM01.2 B
83-32-9	Acenaphthene	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
208-96-8	Acenaphthylene	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
98-86-2	Acetophenone	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
120-12-7	Anthracene	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-SB-04

Lab ID: C080401-16

MD No: 4EC3 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EC3 KAP

Date Collected: 1/16/08 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1912-24-9	Atrazine	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
100-52-7	Benzaldehyde	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
105-60-2	Caprolactam	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
86-74-8	Carbazole	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
218-01-9	Chrysene	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
132-64-9	Dibenzofuran	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
84-66-2	Diethyl phthalate	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
206-44-0	Fluoranthene	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
86-73-7	Fluorene	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	230	U, J, QC-1	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
67-72-1	Hexachloroethane	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
78-59-1	Isophorone	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
91-20-3	Naphthalene	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
98-95-3	Nitrobenzene	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B



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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

Semi Volatile Organics

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-SB-04

Lab ID: C080401-16

MD No: 4EC3 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EC3 KAP

Date Collected: 1/16/08 11:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
621-64-7	n-Nitroso di-n-Propylamine	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
87-86-5	Pentachlorophenol	440	U	ug/kg dry	440	1/18/08	1/19/08	CLP SOM01.2 B
85-01-8	Phenanthrene	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
108-95-2	Phenol	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
129-00-0	Pyrene	230	U	ug/kg dry	230	1/18/08	1/19/08	CLP SOM01.2 B
Tentatively Identified Compounds:								
112-84-5	13-Docosenamide, (Z)-	200	NJ, CLP15	ug/kg dry		1/18/08	1/19/08	CLP SOM01.2 B



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D.A.R.T. Id: 08-0156

April 1, 2008

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 08-0206, Mills Gap Road Groundwater Contamination
Superfund Remedial

FROM: Denise Goddard
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: David Dorian

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:

Method Used:

Classical/Nutrient Analyses (CNA)

Cyanide

CLP Inorganics

Total Metals (TMTL)

Total Mercury

CLP Inorganics

Total Metals

CLP Inorganics



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 08-0156

Report Narrative for Work Order C080401, Project: 08-0206
Data Review and Validation Report
Site Name: Mills Gap Groundwater Contamination, Ashville, NC
Case No. 37159
ELEMENT Sample Ids: C080401-01 - C080401-16
Sampling Dates: 01/15-16/08

Inorganic Analysis: Chemtech Consulting Group, Mountainside, NJ
Date Received from Lab: 01/25/08
Analyses conducted: Total metals, mercury, and cyanide

The ESAT Work Team has reviewed the above-captioned CLP data package consisting of nine water and 11 soil samples for Total Metals analysis by ICP-AES and cyanide analysis by SOW ILM05.3, according to the contract Statement of Work and EPA guidelines. This package presents acceptable contractual and technical performance with qualifications. Further details are provided below and in the attached review summary form.

Examination of blank samples revealed apparent low-level contamination with several elements listed in Table 1 (attached to hardcopy data validation report). Reported detection limits were adjusted as high as five times blank levels to discount possible false positives due to contamination.

ICP-AES Analysis

Water matrix spiked sample recovery for silver was 147%. All positive water sample results for silver were considered estimated and flagged "J".

Soil matrix spiked sample recovery for silver was 144%. All positive soil sample results for silver were considered estimated and flagged "J".

The percent relative standard deviation was greater than 20% for plasma multiple exposures and reported result was greater than the method detection limit but less than the contract required quantitation limit for cadmium in sample C080401-03. The above sample result was suspected of being a potential false positive and, hence, unusable and flagged "R".

Water performance evaluation sample recovery for barium was scored as action high by the web-based SPS Web software. All positive water sample results for barium were considered estimated and flagged "J".

The initial cyanide result (63 ug/L) for sample MD4EA9 was incorrect and therefore, the sample was re-distilled and re-analyzed. The re-analyzed result is 10 ug/L and has been flagged "UJ".

Organic Analysis: KAP Technologies, Inc., Woodlands, TX



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The ESAT Work Team reviewed data for eighteen water and thirty-eight soil samples analyzed for organic volatiles, semivolatile extractables, pesticides, and aroclors per CLP statement of work SOM01.2. The samples were collected between 01/15/08 and 01/16/08, were received by the laboratory between 01/16/08 and 01/17/08, and the last data package was received on 01/23/08 by the USEPA Quality Assurance Section, Region 4 SESD/MTSB. The laboratory satisfied all technical and contractual analysis and extraction holding time requirements. The data package presents acceptable contractual and technical performance with qualifications.

The semivolatile target analyte (bis(2-ethylhexyl)phthalate) was scored as a PES contaminant above the CRQL in the soil semivolatile extractable performance evaluation sample (PES). All PES contaminants were treated as method blank contaminants during data qualification.

Deuterated monitoring compounds (DMC) are used as surrogates in each sample for GC/MS analysis to monitor extraction efficiency. All results for analytes associated with the low DMC 4-chloroaniline-d4 recovery (1%) were "J" qualified in water sample C080401-02 (D4EB0). The acceptance limits for this DMC are 1-145%. Additionally all analyte results associated with low DMC recoveries were "J" qualified in water samples C080401-11 (D4EC4), C080401-12 (D4EC6), C080401-13 (D4EC7), and C080401-14 (D4CE8) and soil samples C080401-05 (D4EB4), C080401-08 (D4EB8), and C080401-15 (D4EC2).

Three semivolatile extractable compounds were "J" qualified due to erratic continuing calibration performance.

Data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

cc: Nardina Turner



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0156

SAMPLES INCLUDED IN THIS REPORT

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected	Date Received
MGGC-PB-02	C080401-01	4EA9		Preservative Blank	1/15/08 07:40	1/17/08 17:45
MGGC-RB-03	C080401-02	4EB0	4EB0	Equipment Rinse Blank	1/15/08 08:15	1/17/08 17:45
MGGC-SB-09	C080401-03	4EB2	4EB2	Subsurface Soil	1/15/08 09:10	1/17/08 17:45
MGGC-SB-07	C080401-04	4EB3	4EB3	Subsurface Soil	1/15/08 11:05	1/17/08 17:45
MGGC-SB-023	C080401-05	4EB4	4EB4	Subsurface Soil	1/15/08 11:05	1/17/08 17:45
MGGC-SB-016	C080401-06	4EB6	4EB6	Subsurface Soil	1/15/08 13:00	1/17/08 17:45
MGGC-RB-04	C080401-07	4EB7	4EB7	Equipment Rinse Blank	1/15/08 13:35	1/17/08 17:45
MGGC-SB-017	C080401-08	4EB8	4EB8	Subsurface Soil	1/15/08 14:15	1/17/08 17:45
MGGC-SB-05	C080401-09	4EB9	4EB9	Subsurface Soil	1/15/08 15:10	1/17/08 17:45
MGGC-SB-06	C080401-10	4EC0	4EC0	Subsurface Soil	1/15/08 15:35	1/17/08 17:45
MGGC-GW-06	C080401-11	4EC4	4EC4	Groundwater	1/16/08 13:35	1/17/08 17:45
MGGC-GW-04	C080401-12	4EC6	4EC6	Groundwater	1/16/08 14:40	1/17/08 17:45
MGGC-GW-017	C080401-13	4EC7	4EC7	Groundwater	1/16/08 14:40	1/17/08 17:45
MGGC-GW-05	C080401-14	4EC8	4EC8	Groundwater	1/16/08 15:40	1/17/08 17:45
MGGC-SB-011	C080401-15	4EC2	4EC2	Subsurface Soil	1/16/08 10:15	1/17/08 17:45
MGGC-SB-04	C080401-16	4EC3	4EC3	Subsurface Soil	1/16/08 11:15	1/17/08 17:45



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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
B-1	Analyte is found in the associated blank as well as in the sample (CLP B-flag).
B-4	Level in blank impacts MRLs.
CLP01	Concentration reported is less than the lowest standard on calibration curve
CLP03	Baseline instability in calibration or preparation blanks
CLP08	PE sample recovery greater than control limits.
CLP09	MRL elevated due to baseline instability.
CR	Suspected trip blank contamination
H-6	Sample originally analyzed within holding time; some QC requirements not met. The reported result is from a second analysis performed for confirmation which occurred after the holding time expired.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than MDL but less than MRL.
QM-2	Matrix Spike Recovery greater than method control limits
R	The presence or absence of the analyte can not be determined from the data due to severe quality control problems. The data are rejected and considered unusable.

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - The analyte concentration which corresponds to the lowest quantitative point on the calibration curve or the lowest demonstrated level of acceptable quantitation.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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D.A.R.T. Id: 08-0156

Total Metals

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

MD No: 4EA9 CHEM

Sample ID: MGGC-PB-02

Lab ID: C080401-01

D No:

Station ID:

Matrix: Preservative Blank

Date Collected: 1/15/08 7:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.20	U	ug/L	0.20	1/21/08	1/21/08	CLP ILM05.4 CV
7440-38-2	Arsenic	10	U	ug/L	10	1/17/08	1/18/08	CLP ILM05.4 P
7440-39-3	Barium	0.71	J, Q-2, CLP08	ug/L	200	1/17/08	1/18/08	CLP ILM05.4 P
7440-43-9	Cadmium	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP ILM05.4 P
7440-47-3	Chromium	10	U	ug/L	10	1/17/08	1/18/08	CLP ILM05.4 P
7439-92-1	Lead	10	U	ug/L	10	1/17/08	1/18/08	CLP ILM05.4 P
7782-49-2	Selenium	35	U	ug/L	35	1/17/08	1/18/08	CLP ILM05.4 P
7440-22-4	Silver	10	U	ug/L	10	1/17/08	1/18/08	CLP ILM05.4 P



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Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

MD No: 4EA9 CHEM

Sample ID: MGGC-PB-02

Lab ID: C080401-01

D No:

Station ID:

Matrix: Preservative Blank

Date Collected: 1/15/08 7:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
57-12-5	Cyanide	10	U, CR, H-6	ug/L	10	1/18/08	1/18/08	CLP ILM05.4 AS



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Total Metals

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

MD No: 4EB0 CHEM

Sample ID: MGGC-RB-03

Lab ID: C080401-02

D No: 4EB0 KAP

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 1/15/08 8:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.20	U	ug/L	0.20	1/21/08	1/21/08	CLP ILM05.4 CV
7440-38-2	Arsenic	10	U	ug/L	10	1/17/08	1/18/08	CLP ILM05.4 P
7440-39-3	Barium	0.61	J, Q-2, CLP08	ug/L	200	1/17/08	1/18/08	CLP ILM05.4 P
7440-43-9	Cadmium	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP ILM05.4 P
7440-47-3	Chromium	10	U	ug/L	10	1/17/08	1/18/08	CLP ILM05.4 P
7439-92-1	Lead	10	U	ug/L	10	1/17/08	1/18/08	CLP ILM05.4 P
7782-49-2	Selenium	35	U	ug/L	35	1/17/08	1/18/08	CLP ILM05.4 P
7440-22-4	Silver	10	U	ug/L	10	1/17/08	1/18/08	CLP ILM05.4 P



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Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

MD No: 4EB0 CHEM

Sample ID: MGGC-RB-03

Lab ID: C080401-02

D No: 4EB0 KAP

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 1/15/08 8:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
57-12-5	Cyanide	10	U	ug/L	10	1/18/08	1/18/08	CLP ILM05.4 AS



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Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

MD No: 4EB2 CHEM

Sample ID: MGGC-SB-09

Lab ID: C080401-03

D No: 4EB2 KAP

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 9:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.13	U	mg/kg dry	0.13	1/18/08	1/18/08	CLP ILM05.4 CV
7440-38-2	Arsenic	1.3	U	mg/kg dry	1.3	1/17/08	1/18/08	CLP ILM05.4 P
7440-39-3	Barium	120		mg/kg dry	27	1/17/08	1/18/08	CLP ILM05.4 P
7440-43-9	Cadmium	0.11	R, Q-2, CLP09	mg/kg dry	0.67	1/17/08	1/18/08	CLP ILM05.4 P
7440-47-3	Chromium	28		mg/kg dry	1.3	1/17/08	1/18/08	CLP ILM05.4 P
7439-92-1	Lead	10		mg/kg dry	1.3	1/17/08	1/18/08	CLP ILM05.4 P
7782-49-2	Selenium	2.0	J, Q-2	mg/kg dry	4.7	1/17/08	1/18/08	CLP ILM05.4 P
7440-22-4	Silver	1.3	U	mg/kg dry	1.3	1/17/08	1/18/08	CLP ILM05.4 P



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Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

MD No: 4EB2 CHEM

Sample ID: MGGC-SB-09

Lab ID: C080401-03

D No: 4EB2 KAP

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 9:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	74		%		1/18/08	1/18/08	CLP Inorganics
57-12-5	Cyanide	1.4	J, Q-2	mg/kg dry	3.4	1/18/08	1/18/08	CLP ILM05.4 AS



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Contract Lab Case: 37159

Sample ID: MGGC-SB-07

Lab ID: C080401-04

MD No: 4EB3 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EB3 KAP

Date Collected: 1/15/08 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.12	U	mg/kg dry	0.12	1/18/08	1/18/08	CLP ILM05.4 CV
7440-38-2	Arsenic	0.45	U, J, Q-2, CLP03	mg/kg dry	1.2	1/17/08	1/18/08	CLP ILM05.4 P
7440-39-3	Barium	110		mg/kg dry	24	1/17/08	1/18/08	CLP ILM05.4 P
7440-43-9	Cadmium	0.59	U	mg/kg dry	0.59	1/17/08	1/18/08	CLP ILM05.4 P
7440-47-3	Chromium	23		mg/kg dry	1.2	1/17/08	1/18/08	CLP ILM05.4 P
7439-92-1	Lead	11		mg/kg dry	1.2	1/17/08	1/18/08	CLP ILM05.4 P
7782-49-2	Selenium	3.0	J	mg/kg dry	4.1	1/17/08	1/18/08	CLP ILM05.4 P
7440-22-4	Silver	0.71	J, Q-2, QM-2	mg/kg dry	1.2	1/17/08	1/18/08	CLP ILM05.4 P



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Sample ID: MGGC-SB-07

Lab ID: C080401-04

MD No: 4EB3 CHEM

D No: 4EB3 KAP

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 11:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	85		%		1/18/08	1/18/08	CLP Inorganics
57-12-5	Cyanide	3.9		mg/kg dry	3.0	1/18/08	1/18/08	CLP ILM05.4 AS



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MD No: 4EB4 CHEM

Sample ID: MGGC-SB-023

Lab ID: C080401-05

D No: 4EB4 KAP

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.12	U	mg/kg dry	0.12	1/18/08	1/18/08	CLP ILM05.4 CV
7440-38-2	Arsenic	1.2	U	mg/kg dry	1.2	1/17/08	1/18/08	CLP ILM05.4 P
7440-39-3	Barium	90		mg/kg dry	23	1/17/08	1/18/08	CLP ILM05.4 P
7440-43-9	Cadmium	0.58	U	mg/kg dry	0.58	1/17/08	1/18/08	CLP ILM05.4 P
7440-47-3	Chromium	21		mg/kg dry	1.2	1/17/08	1/18/08	CLP ILM05.4 P
7439-92-1	Lead	8.2		mg/kg dry	1.2	1/17/08	1/18/08	CLP ILM05.4 P
7782-49-2	Selenium	1.9	J, Q-2	mg/kg dry	4.1	1/17/08	1/18/08	CLP ILM05.4 P
7440-22-4	Silver	0.58	J, Q-2, QM-2	mg/kg dry	1.2	1/17/08	1/18/08	CLP ILM05.4 P



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MD No: 4EB4 CHEM

Sample ID: MGGC-SB-023

Lab ID: C080401-05

D No: 4EB4 KAP

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 11:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	86		%		1/18/08	1/18/08	CLP Inorganics
57-12-5	Cyanide	3.5		mg/kg dry	2.9	1/18/08	1/18/08	CLP ILM05.4 AS



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Contract Lab Case: 37159

MD No: 4EB6 CHEM

Sample ID: MGGC-SB-016

Lab ID: C080401-06

D No: 4EB6 KAP

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.12	U	mg/kg dry	0.12	1/18/08	1/18/08	CLP ILM05.4 CV
7440-38-2	Arsenic	0.83	U, J, Q-2, CLP03	mg/kg dry	1.2	1/17/08	1/18/08	CLP ILM05.4 P
7440-39-3	Barium	18	J, Q-2	mg/kg dry	24	1/17/08	1/18/08	CLP ILM05.4 P
7440-43-9	Cadmium	0.61	U	mg/kg dry	0.61	1/17/08	1/18/08	CLP ILM05.4 P
7440-47-3	Chromium	12		mg/kg dry	1.2	1/17/08	1/18/08	CLP ILM05.4 P
7439-92-1	Lead	7.3		mg/kg dry	1.2	1/17/08	1/18/08	CLP ILM05.4 P
7782-49-2	Selenium	1.5	J, Q-2	mg/kg dry	4.3	1/17/08	1/18/08	CLP ILM05.4 P
7440-22-4	Silver	0.20	J, Q-2, QM-2	mg/kg dry	1.2	1/17/08	1/18/08	CLP ILM05.4 P



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Project: 08-0206, Mills Gap Road Groundwater Contamination

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Sample ID: MGGC-SB-016

Lab ID: C080401-06

MD No: 4EB6 CHEM

D No: 4EB6 KAP

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 13:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	82		%		1/18/08	1/18/08	CLP Inorganics
57-12-5	Cyanide	0.18	U, J, Q-2, CLP01	mg/kg dry	3.0	1/18/08	1/18/08	CLP ILM05.4 AS



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MD No: 4EB7 CHEM

Sample ID: MGGC-RB-04

Lab ID: C080401-07

D No: 4EB7 KAP

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 1/15/08 13:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.20	U	ug/L	0.20	1/21/08	1/21/08	CLP ILM05.4 CV
7440-38-2	Arsenic	10	U	ug/L	10	1/17/08	1/18/08	CLP ILM05.4 P
7440-39-3	Barium	7.5	J, Q-2, CLP08	ug/L	200	1/17/08	1/18/08	CLP ILM05.4 P
7440-43-9	Cadmium	5.0	U	ug/L	5.0	1/17/08	1/18/08	CLP ILM05.4 P
7440-47-3	Chromium	22		ug/L	10	1/17/08	1/18/08	CLP ILM05.4 P
7439-92-1	Lead	10	U	ug/L	10	1/17/08	1/18/08	CLP ILM05.4 P
7782-49-2	Selenium	35	U	ug/L	35	1/17/08	1/18/08	CLP ILM05.4 P
7440-22-4	Silver	10	U	ug/L	10	1/17/08	1/18/08	CLP ILM05.4 P



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MD No: 4EB7 CHEM

Sample ID: MGGC-RB-04

Lab ID: C080401-07

D No: 4EB7 KAP

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 1/15/08 13:35

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
57-12-5	Cyanide	10	U	ug/L	10	1/18/08	1/18/08	CLP ILM05.4 AS



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Total Metals

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Contract Lab Case: 37159

MD No: 4EB8 CHEM

Sample ID: MGGC-SB-017

Lab ID: C080401-08

D No: 4EB8 KAP

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.14	U	mg/kg dry	0.14	1/18/08	1/18/08	CLP ILM05.4 CV
7440-38-2	Arsenic	0.51	U, J, Q-2, CLP03	mg/kg dry	1.3	1/17/08	1/18/08	CLP ILM05.4 P
7440-39-3	Barium	140		mg/kg dry	27	1/17/08	1/18/08	CLP ILM05.4 P
7440-43-9	Cadmium	0.67	U	mg/kg dry	0.67	1/17/08	1/18/08	CLP ILM05.4 P
7440-47-3	Chromium	19		mg/kg dry	1.3	1/17/08	1/18/08	CLP ILM05.4 P
7439-92-1	Lead	4.6		mg/kg dry	1.3	1/17/08	1/18/08	CLP ILM05.4 P
7782-49-2	Selenium	4.7	U	mg/kg dry	4.7	1/17/08	1/18/08	CLP ILM05.4 P
7440-22-4	Silver	0.36	J, Q-2, QM-2	mg/kg dry	1.3	1/17/08	1/18/08	CLP ILM05.4 P



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Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

MD No: 4EB8 CHEM

Sample ID: MGGC-SB-017

Lab ID: C080401-08

D No: 4EB8 KAP

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 14:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	74		%		1/18/08	1/18/08	CLP Inorganics
57-12-5	Cyanide	2.9	J, Q-2	mg/kg dry	3.4	1/18/08	1/18/08	CLP ILM05.4 AS



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Contract Lab Case: 37159

MD No: 4EB9 CHEM

Sample ID: MGGC-SB-05

Lab ID: C080401-09

D No: 4EB9 KAP

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 15:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.080	U, J, Q-2, CLP01	mg/kg dry	0.12	1/18/08	1/18/08	CLP ILM05.4 CV
7440-38-2	Arsenic	1.1	U, J, Q-2, CLP03	mg/kg dry	1.3	1/17/08	1/18/08	CLP ILM05.4 P
7440-39-3	Barium	43		mg/kg dry	25	1/17/08	1/18/08	CLP ILM05.4 P
7440-43-9	Cadmium	0.63	U	mg/kg dry	0.63	1/17/08	1/18/08	CLP ILM05.4 P
7440-47-3	Chromium	17		mg/kg dry	1.3	1/17/08	1/18/08	CLP ILM05.4 P
7439-92-1	Lead	11		mg/kg dry	1.3	1/17/08	1/18/08	CLP ILM05.4 P
7782-49-2	Selenium	3.3	J, Q-2	mg/kg dry	4.4	1/17/08	1/18/08	CLP ILM05.4 P
7440-22-4	Silver	0.76	J, Q-2, QM-2	mg/kg dry	1.3	1/17/08	1/18/08	CLP ILM05.4 P



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Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

Sample ID: MGGC-SB-05

Lab ID: C080401-09

MD No: 4EB9 CHEM

D No: 4EB9 KAP

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 15:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	78		%		1/18/08	1/18/08	CLP Inorganics
57-12-5	Cyanide	1.7	J, Q-2	mg/kg dry	3.2	1/18/08	1/18/08	CLP ILM05.4 AS



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Total Metals

Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

MD No: 4EC0 CHEM

Sample ID: MGGC-SB-06

Lab ID: C080401-10

D No: 4EC0 KAP

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 15:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.084	U, J, Q-2, CLP01	mg/kg dry	0.13	1/18/08	1/18/08	CLP ILM05.4 CV
7440-38-2	Arsenic	1.3	U	mg/kg dry	1.3	1/17/08	1/18/08	CLP ILM05.4 P
7440-39-3	Barium	60		mg/kg dry	25	1/17/08	1/18/08	CLP ILM05.4 P
7440-43-9	Cadmium	0.63	U	mg/kg dry	0.63	1/17/08	1/18/08	CLP ILM05.4 P
7440-47-3	Chromium	30		mg/kg dry	1.3	1/17/08	1/18/08	CLP ILM05.4 P
7439-92-1	Lead	9.2		mg/kg dry	1.3	1/17/08	1/18/08	CLP ILM05.4 P
7782-49-2	Selenium	3.4	J, Q-2	mg/kg dry	4.4	1/17/08	1/18/08	CLP ILM05.4 P
7440-22-4	Silver	0.82	J, Q-2, QM-2	mg/kg dry	1.3	1/17/08	1/18/08	CLP ILM05.4 P



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Project: 08-0206, Mills Gap Road Groundwater Contamination

Contract Lab Case: 37159

MD No: 4EC0 CHEM

Sample ID: MGGC-SB-06

Lab ID: C080401-10

D No: 4EC0 KAP

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/15/08 15:35

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	80		%		1/18/08	1/18/08	CLP Inorganics
57-12-5	Cyanide	3.9		mg/kg dry	3.1	1/18/08	1/18/08	CLP ILM05.4 AS



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Total Metals

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Contract Lab Case: 37159

MD No: 4EC4 CHEM

Sample ID: MGGC-GW-06

Lab ID: C080401-11

D No: 4EC4 KAP

Station ID:

Matrix: Groundwater

Date Collected: 1/16/08 13:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.20	U	ug/L	0.20	1/21/08	1/21/08	CLP ILM05.4 CV
7440-38-2	Arsenic	6.3	U, J, Q-2, CLP03	ug/L	10	1/18/08	1/21/08	CLP ILM05.4 P
7440-39-3	Barium	1300	J, CLP08	ug/L	200	1/18/08	1/21/08	CLP ILM05.4 P
7440-43-9	Cadmium	5.0	U	ug/L	5.0	1/18/08	1/21/08	CLP ILM05.4 P
7440-47-3	Chromium	160		ug/L	10	1/18/08	1/21/08	CLP ILM05.4 P
7439-92-1	Lead	71		ug/L	10	1/18/08	1/21/08	CLP ILM05.4 P
7782-49-2	Selenium	35	U	ug/L	35	1/18/08	1/21/08	CLP ILM05.4 P
7440-22-4	Silver	5.1	U, J, Q-2, CLP03, QM-2	ug/L	10	1/18/08	1/21/08	CLP ILM05.4 P



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Sample ID: MGGC-GW-06

Lab ID: C080401-11

MD No: 4EC4 CHEM

D No: 4EC4 KAP

Station ID:

Matrix: Groundwater

Date Collected: 1/16/08 13:35

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
57-12-5	Cyanide	50	U, J, B-1, B-4	ug/L	10	1/18/08	1/18/08	CLP ILM05.4 AS



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Total Metals

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Contract Lab Case: 37159

MD No: 4EC6 CHEM

Sample ID: MGGC-GW-04

Lab ID: C080401-12

D No: 4EC6 KAP

Station ID:

Matrix: Groundwater

Date Collected: 1/16/08 14:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.048	U, J, Q-2, CLP03	ug/L	0.20	1/21/08	1/21/08	CLP ILM05.4 CV
7440-38-2	Arsenic	10	U	ug/L	10	1/18/08	1/21/08	CLP ILM05.4 P
7440-39-3	Barium	37	J, Q-2, CLP08	ug/L	200	1/18/08	1/21/08	CLP ILM05.4 P
7440-43-9	Cadmium	5.0	U	ug/L	5.0	1/18/08	1/21/08	CLP ILM05.4 P
7440-47-3	Chromium	7.1	J, Q-2	ug/L	10	1/18/08	1/21/08	CLP ILM05.4 P
7439-92-1	Lead	10	U	ug/L	10	1/18/08	1/21/08	CLP ILM05.4 P
7782-49-2	Selenium	35	U	ug/L	35	1/18/08	1/21/08	CLP ILM05.4 P
7440-22-4	Silver	10	U	ug/L	10	1/18/08	1/21/08	CLP ILM05.4 P



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MD No: 4EC6 CHEM

Sample ID: MGGC-GW-04

Lab ID: C080401-12

D No: 4EC6 KAP

Station ID:

Matrix: Groundwater

Date Collected: 1/16/08 14:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
57-12-5	Cyanide	8.5	U, J, Q-2, B-1, B-4	ug/L	10	1/18/08	1/18/08	CLP ILM05.4 AS



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Sample ID: MGGC-GW-017

Lab ID: C080401-13

MD No: 4EC7 CHEM

Station ID:

Matrix: Groundwater

D No: 4EC7 KAP

Date Collected: 1/16/08 14:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.20	U	ug/L	0.20	1/21/08	1/21/08	CLP ILM05.4 CV
7440-38-2	Arsenic	4.7	U, J, Q-2, CLP03	ug/L	10	1/18/08	1/21/08	CLP ILM05.4 P
7440-39-3	Barium	38	J, Q-2, CLP08	ug/L	200	1/18/08	1/21/08	CLP ILM05.4 P
7440-43-9	Cadmium	0.94	U, J, Q-2, CLP03	ug/L	5.0	1/18/08	1/21/08	CLP ILM05.4 P
7440-47-3	Chromium	6.5	J, Q-2	ug/L	10	1/18/08	1/21/08	CLP ILM05.4 P
7439-92-1	Lead	10	U	ug/L	10	1/18/08	1/21/08	CLP ILM05.4 P
7782-49-2	Selenium	35	U	ug/L	35	1/18/08	1/21/08	CLP ILM05.4 P
7440-22-4	Silver	10	U	ug/L	10	1/18/08	1/21/08	CLP ILM05.4 P



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Project: 08-0206, Mills Gap Road Groundwater Contamination

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MD No: 4EC7 CHEM

Sample ID: MGGC-GW-017

Lab ID: C080401-13

D No: 4EC7 KAP

Station ID:

Matrix: Groundwater

Date Collected: 1/16/08 14:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
57-12-5	Cyanide	9.5	U, J, Q-2, B-1, B-4	ug/L	10	1/18/08	1/18/08	CLP ILM05.4 AS



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Sample ID: MGGC-GW-05

Lab ID: C080401-14

MD No: 4EC8 CHEM

Station ID:

Matrix: Groundwater

D No: 4EC8 KAP

Date Collected: 1/16/08 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.20	U	ug/L	0.20	1/21/08	1/21/08	CLP ILM05.4 CV
7440-38-2	Arsenic	10	U	ug/L	10	1/18/08	1/21/08	CLP ILM05.4 P
7440-39-3	Barium	550	J, CLP08	ug/L	200	1/18/08	1/21/08	CLP ILM05.4 P
7440-43-9	Cadmium	5.0	U	ug/L	5.0	1/18/08	1/21/08	CLP ILM05.4 P
7440-47-3	Chromium	91		ug/L	10	1/18/08	1/21/08	CLP ILM05.4 P
7439-92-1	Lead	35		ug/L	10	1/18/08	1/21/08	CLP ILM05.4 P
7782-49-2	Selenium	35	U	ug/L	35	1/18/08	1/21/08	CLP ILM05.4 P
7440-22-4	Silver	3.7	U, J, Q-2, CLP03, QM-2	ug/L	10	1/18/08	1/21/08	CLP ILM05.4 P



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Sample ID: MGGC-GW-05

Lab ID: C080401-14

MD No: 4EC8 CHEM

D No: 4EC8 KAP

Station ID:

Matrix: Groundwater

Date Collected: 1/16/08 15:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
57-12-5	Cyanide	59	U, J, B-1, B-4	ug/L	10	1/18/08	1/18/08	CLP ILM05.4 AS



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Total Metals

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Contract Lab Case: 37159

MD No: 4EC2 CHEM

Sample ID: MGGC-SB-011

Lab ID: C080401-15

D No: 4EC2 KAP

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/16/08 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.13	U	mg/kg dry	0.13	1/18/08	1/18/08	CLP ILM05.4 CV
7440-38-2	Arsenic	0.74	U, J, Q-2, CLP03	mg/kg dry	1.3	1/17/08	1/18/08	CLP ILM05.4 P
7440-39-3	Barium	60		mg/kg dry	27	1/17/08	1/18/08	CLP ILM05.4 P
7440-43-9	Cadmium	0.67	U	mg/kg dry	0.67	1/17/08	1/18/08	CLP ILM05.4 P
7440-47-3	Chromium	26		mg/kg dry	1.3	1/17/08	1/18/08	CLP ILM05.4 P
7439-92-1	Lead	4.1		mg/kg dry	1.3	1/17/08	1/18/08	CLP ILM05.4 P
7782-49-2	Selenium	1.9	J, Q-2	mg/kg dry	4.7	1/17/08	1/18/08	CLP ILM05.4 P
7440-22-4	Silver	0.42	J, Q-2, QM-2	mg/kg dry	1.3	1/17/08	1/18/08	CLP ILM05.4 P



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Contract Lab Case: 37159

MD No: 4EC2 CHEM

Sample ID: MGGC-SB-011

Lab ID: C080401-15

D No: 4EC2 KAP

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/16/08 10:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	75		%		1/18/08	1/18/08	CLP Inorganics
57-12-5	Cyanide	1.3	J, Q-2	mg/kg dry	3.3	1/18/08	1/18/08	CLP ILM05.4 AS



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Total Metals

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Contract Lab Case: 37159

Sample ID: MGGC-SB-04

Lab ID: C080401-16

MD No: 4EC3 CHEM

Station ID:

Matrix: Subsurface Soil

D No: 4EC3 KAP

Date Collected: 1/16/08 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.11	U	mg/kg dry	0.11	1/18/08	1/18/08	CLP ILM05.4 CV
7440-38-2	Arsenic	0.42	U, J, Q-2, CLP03	mg/kg dry	1.1	1/17/08	1/18/08	CLP ILM05.4 P
7440-39-3	Barium	61		mg/kg dry	22	1/17/08	1/18/08	CLP ILM05.4 P
7440-43-9	Cadmium	0.55	U	mg/kg dry	0.55	1/17/08	1/18/08	CLP ILM05.4 P
7440-47-3	Chromium	9.9		mg/kg dry	1.1	1/17/08	1/18/08	CLP ILM05.4 P
7439-92-1	Lead	4.5		mg/kg dry	1.1	1/17/08	1/18/08	CLP ILM05.4 P
7782-49-2	Selenium	1.5	J, Q-2	mg/kg dry	3.9	1/17/08	1/18/08	CLP ILM05.4 P
7440-22-4	Silver	0.31	J, Q-2, QM-2	mg/kg dry	1.1	1/17/08	1/18/08	CLP ILM05.4 P



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Contract Lab Case: 37159

MD No: 4EC3 CHEM

Sample ID: MGGC-SB-04

Lab ID: C080401-16

D No: 4EC3 KAP

Station ID:

Matrix: Subsurface Soil

Date Collected: 1/16/08 11:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	90		%		1/18/08	1/18/08	CLP Inorganics
57-12-5	Cyanide	0.30	J, Q-2	mg/kg dry	2.8	1/18/08	1/18/08	CLP ILM05.4 AS

ATTACHMENTS

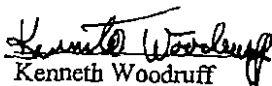
(102 pages)

GC/MS ANALYTICAL REPORT
MILLS GAP ROAD TCE SITE
SKYLAND, NORTH CAROLINA
JANUARY 2008

U.S. EPA Work Assignment No.: 0-296
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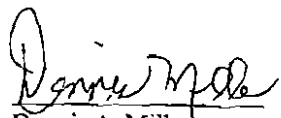
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APPENDICES

Appendix A	Chain of Custody Records
Appendix B	Standard Certificates of Analysis
Appendix C	Calibration Data
Appendix D	Quantitation Reports

1.0 INTRODUCTION

The Environmental Protection Agency/Environmental Response Team Center (EPA/ERT) issued Work Assignment # 0-296 to Lockheed Martin under the Response Engineering and Analytical Contract (REAC) to provide analytical services at the Mills Gap Road TCE Site in Skyland, North Carolina.

An Agilent® 6890 gas chromatograph and 5973N mass spectrometer (GC/MS) were used to perform volatile organic compound (VOC) analysis of soil gas samples collected in one-Liter (L) Tedlar® bags. Two compounds comprised the target compound list (TCL): trichloroethene (TCE) and tetrachloroethene (PCE).

On-site analyses occurred on 11 and 12 December 2007 on the 29 samples collected by REAC personnel. Analysis was performed in accordance with REAC Draft Standard Operating Procedure, *Field Analysis of VOCs in Gaseous Phase Samples by GC/MS Loop Injection*. All analytical data were verified per Screening Data (SD) requirements. Table 1 details the samples by chain of custody number, number of samples, date sampled and received, matrix, and analysis. Copies of the chain of custody records are included in Appendix A.

2.0 PROCEDURES

A Tedlar® bag was attached to the sample introduction port of the heated dual loop injection apparatus. One of the loops was filled with sample and the other with internal standard. The content of both loops were simultaneously injected onto the head of the column for subsequent analysis by GC/MS. When required, all sample dilutions were done in a glass syringe or Tedlar® bag. The Agilent ChemStation® data system was used to evaluate and process the data. Table 2 lists the operating conditions of the dual loop injection apparatus and the GC/MS.

2.1 Soil Gas Analysis

An aliquant of sample was directly introduced into the first loop of the injection apparatus from a Tedlar® bag using the sample introduction port. The second loop was filled from a SUMMA® canister containing the internal standard. The loops were switched in line with the carrier gas to inject the sample.

The GC was temperature programmed to focus the sample on the head of the column and achieve quick separation of the VOCs, which were then detected by the MS detector. Comparing their retention times and mass spectra with those of the 5 part per billion by volume (ppbv) standard of the initial calibration identified the VOCs in the sample.

2.2 Calibrations and Sample Spiking

All certified standards were obtained from commercial vendors with certificates of analysis. The standards' cylinder numbers, concentrations, and compound quantitation ions used are presented in Table 3. Vendor certificate of analysis for all standards used are presented in Appendix B.

Mass spectrometer tuning was performed and checked daily. Five milliliters (mL) of p-bromofluorobenzene (BFB) at one part per million by volume (ppmv) were analyzed to validate the mass spectrometer tuning.

All calibrations were based on a nominal value of 500 ppbv and 20 ppmv for all target compounds. The VOC standard mix contained 15 compounds, each at approximately 500 ppbv and 20 ppmv in a balance of nitrogen.

Six calibration standards of varying concentrations were prepared on each day of operation to analyze the initial calibration. A calibration curve was created consisting of 0.5, 1, 5, 50, 500, and

5000 ppbv levels.

The internal standard mix consisted of bromochloromethane, 1,4-difluorobenzene, and chlorobenzene- d_5 each at approximately one ppmv. Fifty microliters (μL) of the internal standard mix, equivalent to a 10-ppbv standard, were added to all samples, blanks, and standards.

2.3 Compound Identification/Quantitation

VOCs in the samples were identified and quantitated using the ChemStation[®] software. This software uses reconstructed and extracted ion chromatograms matched with retention time windows to identify and quantify target compounds. The report format prints the internal standards, identified compounds, calculated concentrations, mass spectra (both raw and background subtracted), quantitations, and qualifier ion chromatograms.

The limit of quantitation (LOQ) for each compound was calculated using the following equation:

$$LOQ \text{ (ppbv)} = \text{Lowest Calibration Standard (ppbv)} \times \text{Dilution Factor}$$

Documented in the injection logbook, the dilution factor (DF) was calculated using the following equation:

$$\text{Dilution Factor} = \frac{\text{Total Sample Volume (mL)}}{\text{Initial Sample Volume (mL)}}$$

The target compound results were calculated using the following equation:

$$\text{Concentration (ppbv)} = \text{Analytical Concentration of Compound (ppbv)} \times DF$$

2.4 Quality Assurance/Quality Control

The following Quality Assurance/Quality Control (QA/QC) procedures were performed for this assignment:

- The GC/MS was tuned daily for perfluorotributylamine (PFTBA) to meet ion abundance criteria for BFB as listed in the BFB tune reports. BFB reports are included in the calibration data section (Appendix C).
- Evaluations for the initial calibrations are in the calibration data section (Appendix C). Six calibration standards were prepared and analyzed using the GC/MS operating parameters listed in Table 2.
- At least a five point initial calibration curve was generated for each target compound each day before sample analysis began and acceptance criteria were verified.
- Method (Instrument) blanks were analyzed after the calibration standard(s) and before samples were analyzed to assess possible laboratory contamination and/or carryover. Method blanks were analyzed when necessary to minimize carryover from samples or standards with high levels of VOC target analytes.
- Lot (Tedlar[®] Bag) blanks were analyzed after the Method blank and before samples were analyzed to assess possible contaminants in the Tedlar[®] Bag.

- Internal standards from all analyses were evaluated and acceptance criteria verified.
- The lowest standard analyzed in the initial calibration was used as the LOQ.
- Sample replicates were analyzed.
- The following is a list of the QA/QC flags used in qualifying the results:
 - A - Assumed volume.
 - B - Concentration less than five times the reported blank result. Result is considered not detected.
 - U - None detected at or above the limit of quantitation.
 - E - Exceeds the calibration range. Result is considered estimated.
 - J - Detected below the limit of quantitation. Result is considered estimated.
 - D - Result is from an analysis at a secondary dilution factor.
 - R - Result is unusable.

All applicable data qualifiers were inserted into the result tables.

3.0 RESULTS

All results are reported in ppbv and to two significant figures. Target compound results are presented in Table 4 and Table 5. Results for the replicates are presented in Tables 6 and 7.

The chains of custody records are found in Appendix A. The certificates of analysis for all standards are found in Appendix B. The calibration package for each day of analysis is included in Appendix C. This package includes copies of injection logbook # IV-L-0050, BFB tune reports, internal standard evaluations, response factor report, and all standard quantitation reports.

Quantitation reports for the blanks and samples are included in Appendix D. Quantitation reports list the retention times, quantitation ions, peak areas, and concentrations in ppbv. Calculated concentrations are generated using the average relative response factor from the initial calibration for target compounds.

4.0 DISCUSSION OF RESULTS

The initial calibrations were reviewed and found to be acceptable. The slope of each target compound's curve was calculated using an average response factor curve fit. The calibration % RSD was less than 30% for each compound.

The method blanks and lot (Tedlar®) blanks were reviewed and found to be acceptable.

On 11 December 2007, 18 samples (Table 4) were collected in 1-L Tedlar® bags and analyzed, 13 of which were soil gas samples along with five air samples. On 12 December 2007, 16 samples (Table 5) were collected and analyzed, 11 of which were soil gas samples along with four sub slab samples and one air sample. A comparison was made of the samples to determine which ones contained the highest concentration of any target compound. The results of this evaluation are summarized in the following paragraphs.

Of the 18 samples analyzed on 11 December 2007, PCE was detected above its LOQ in sample number 4455 at 1.2 ppbv. Sample number 4454 contained the highest concentration of TCE at 460 ppbv.

Of the 16 samples analyzed on 12 December 2007, TCE was not detected above its LOQ in any of the samples. Sample number 4464 contained the highest concentration of PCE at 16 ppbv.

Replicates were analyzed on 11 December 2007; samples number 4449 and 4442, and on 12 December 2007; samples number 4469 and 4467, and results are listed in Table 6 and 7. The relative percent differences ranged from zero to 33.0.

TABLE 1
Summary of Chain of Custody Records
Mills Gap Road TCE Site
Skyland, North Carolina
January 2008

COC #	Number of Samples	Date Sampled	Date Received	Matrix	Analysis
0-296-12/11/07-0001	5	11 December 2007	11 December 2007	Air	VOA by GC/MS Via Loop Injection
0-296-12/11/07-0001	13	11 December 2007	11 December 2007	Soil Gas	VOA by GC/MS Via Loop Injection
0-296-12/12/07-0001	1	12 December 2007	12 December 2007	Air	VOA by GC/MS Via Loop Injection
0-296-12/12/07-0001	4	12 December 2007	12 December 2007	Sub Slab	VOA by GC/MS Via Loop Injection
0-296-12/12/07-0001	11	12 December 2007	12 December 2007	Soil Gas	VOA by GC/MS Via Loop Injection

TABLE 2
Instrument Conditions for Analysis of Volatile Organic Compounds
Mills Gap Road TCE Site
Skyland, North Carolina
January 2008

AGILENT® 6890 GC Method

Sample Loop	
Loop Volume	5 mL
Loop Temperature	110°C
Internal Standard Loop	
Loop Volume	50 µL
Loop Temperature	110°C
GC Inlet	
Gas Type	Helium
Mode	Split
Temperature	190°C
Initial Pressure	22.61 pounds per square inch (psi)
Split Ratio	20:1
Split Flow	29.2 mL/minute (min)
Total Flow	33.5 mL/min
GC Oven	
Column	Rtx-Volatiles, 20 m x 0.18 mm ID x 2.0 µm df
Mode	Constant Flow
Flow Rate	1.5 mL/min
Cryo (CO ₂)	
Quick Cryo Cooling	On
Initial Temperature	-10°C
Initial Temperature Hold Time	0.50 min
Ramp Program	40°C/min
Final Temperature	160°C
Final Temperature Hold Time	2 min
Total Run Time	6.75 min

AGILENT® 6890 GC Method

MS Temperatures	
MS Quadrupole	150°C
MS Ion Source	230°C
MS Transfer Line	220°C
MS Tune File	
MS Acquisition Mode	CWS.U
Solvent Delay	SIM
	2.10 min

TABLE 2 (continued)
Instrument Conditions for Analysis of Volatile Organic Compounds
Mills Gap Road TCE Site
Skyland, North Carolina
January 2008

SIMS Parameters

Group 1 Start Time	2.10 min
Ions/Dwell in Group 1	(62/85) (64/85)
Group 2 Start Time	3.25 min
Ions/Dwell in Group 2	(61/85) (63/85) (96/85)
Group 3 Start Time	3.55 min
Ions/Dwell in Group 3	(57/85) (98/85) (41/85) (61/85) (73/85) (43/85) (96/85)
Group 4 Start Time	3.85 min
Ions/Dwell in Group 4	(27/85) (63/85) (65/85)
Group 5 Start Time	4.05 min
Ions/Dwell in Group 5	(49/85) (61/85) (93/85) (96/85) (98/85) (130/85)
Group 6 Start Time	4.35 min
Ions/Dwell in Group 6	(61/85) (97/85) (99/85)
Group 7 Start Time	4.47 min
Ions/Dwell in Group 7	(50/85) (63/85) (77/85) (78/85) (88/85) (114/85)
Group 8 Start Time	4.68 min
Ions/Dwell in Group 8	(95/85) (130/85) (132/85)
Group 9 Start Time	5.10 min
Ions/Dwell in Group 9	(91/85) (92/85)
Group 10 Start Time	5.45 min
Ions/Dwell in Group 10	(131/85) (164/85) (166/85)
Group 10 Start Time	5.75 min
Ions/Dwell in Group 10	(82/85) (91/85) (106/85) (117/85) (119/85)

TABLE 3
Concentrations and Quantitation Ions for Volatile Organic Standards
Mills Gap Road TCE Site
Skyland, North Carolina
January 2008

Spectra Gases, Inc.

Cylinder Number: ALM057539
Certification Date: 01 March 2006
Expiration Date: 29 February 2008

<u>BFB Compound</u>	<u>Quant Ion</u>	<u>Concentration</u>
4-Bromofluorobenzene	N/A	1.02 ppm

Spectra Gases, Inc. Special Certified Blend

Cylinder Number: CC-256175
Certification Date: 20 March 2007
Expiration Date: 20 March 2008

<u>Volatile Organic Compound</u>	<u>Quant Ion</u>	<u>Concentration</u>
Vinyl chloride	62	500 ppb
1,1-Dichloroethene	61	539 ppb
trans-1,2-Dichloroethene	61	534 ppb
1,1-Dichloroethane	63	531 ppb
Methyl tert-Butyl Ether	73	534 ppb
cis-1,2-Dichloroethene	61	520 ppb
1,1,1-Trichloroethane	97	529 ppb
Benzene	78	530 ppb
Trichloroethene	130	546 ppb
Toluene	91	536 ppb
Tetrachloroethene	166	521 ppb
Ethylbenzene	91	516 ppb
m-Xylene	91	514 ppb
p-Xylene	91	514 ppb
o-Xylene	91	516 ppb

Spectra Gases, Inc.

Cylinder Number: CC-172915
Certification Date: 04 December 2007
Expiration Date: 04 December 2008

<u>Internal Standard</u>	<u>Quant Ion</u>	<u>Concentration</u>
Bromochloromethane	49	1.03 ppm
1,4-Difluorobenzene	114	1.06 ppm
Chlorobenzene-d ₅	117	1.07 ppm

TABLE 3 (continued)
Concentrations and Quantitation Ions for Volatile Organic Standards
Mills Gap Road TCE Site
Skyland, North Carolina
January 2008

Spectra Gases, Inc. Special Certified Blend

Cylinder Number: CC-256138
Certification Date: 01 October 2007
Expiration Date: 01 October 2008

<u>Volatile Organic Compound</u>	<u>Quant Ion</u>	<u>Concentration</u>
Vinyl chloride	62	20.7 ppm
1,1-Dichloroethene	61	20.4 ppm
trans-1,2-Dichloroethene	61	21.1 ppm
1,1-Dichloroethane	63	20.4 ppm
Methyl tert-Butyl Ether	73	20.5 ppm
cis-1,2-Dichloroethene	61	20.4 ppm
1,1,1-Trichloroethane	97	20.4 ppm
Benzene	78	20.2 ppm
Trichloroethene	130	20.6 ppm
Toluene	91	20.4 ppm
Tetrachloroethene	166	20.1 ppm
Ethylbenzene	91	20.0 ppm
m-Xylene	91	19.7 ppm
p-Xylene	91	19.7 ppm
o-Xylene	91	19.7 ppm

TABLE 4
Results of Target Compounds for 11 December 2007
Mills Gap Road TCE Site
Skyland, North Carolina
January 2008

Data File	020		021		022		023	
Sample Number	20071211MBL-3		20071211LBL-1		4440		4441	
Sample Location	Method Blank		Lot Blank		MGSS04		MGSS32	
Sample Volume (ml)	5		5		5		5	
Dilution multiplier:	1		1		1		1	
Date Sampled	11 Dec 2007		11 Dec 2007		11 Dec 2007		11 Dec 2007	
Date Analyzed	11 Dec 2007		11 Dec 2007		11 Dec 2007		11 Dec 2007	
Compounds	Results	LOQ	Results	LOQ	Results	LOQ	Results	LOQ
Trichloroethene	U	0.50	U	0.50	0.80	0.50	U	0.50
Tetrachloroethene	U	0.50	U	0.50	U	0.50	U	0.50

Data File	024		025		026		027	
Sample Number	4442		4442 Dup		4443		4444	
Sample Location	Ambient		Ambient		MGSS46		MGSS47	
Sample Volume (ml)	5		5		5		5	
Dilution multiplier:	1		1		1		1	
Date Sampled	11 Dec 2007		11 Dec 2007		11 Dec 2007		11 Dec 2007	
Date Analyzed	11 Dec 2007		11 Dec 2007		11 Dec 2007		11 Dec 2007	
Compounds	Results	LOQ	Results	LOQ	Results	LOQ	Results	LOQ
Trichloroethene	1.1	0.50	1.0	0.50	U	0.50	U	0.50
Tetrachloroethene	U	0.50	U	0.50	U	0.50	U	0.50

Data File	028		029		030		031	
Sample Number	4445		4446		4450		4447	
Sample Location	MGSS31		MGSS29		15 ft from seep 1		seep 3	
Sample Volume (ml)	5		5		5		5	
Dilution multiplier:	1		1		1		1	
Date Sampled	11 Dec 2007		11 Dec 2007		11 Dec 2007		11 Dec 2007	
Date Analyzed	11 Dec 2007		11 Dec 2007		11 Dec 2007		11 Dec 2007	
Compounds	Results	LOQ	Results	LOQ	Results	LOQ	Results	LOQ
Trichloroethene	U	0.50	U	0.50	5.2	0.50	70	0.50
Tetrachloroethene	U	0.50	U	0.50	U	0.50	U	0.50

Results are in parts per billion by volume (ppbv)

U = None detected at or above the limit of quantitation

LOQ = Limit of Quantitation

mL = milliliter

TABLE 4 (continued)
Results of Target Compounds for 11 December 2007
Mills Gap Road TCE Site
Skyland, North Carolina
December 2007

Data File	032		033		034		035	
Sample Number	4448		4449		4449 Dup		4451	
Sample Location	Seep 4		Between seeps 3 & 4		Between seeps 3 & 4 Dup		MGSG1	
Sample Volume (ml)	5		5		5		5	
Dilution multiplier:	1		1		1		1	
Date Sampled	11 Dec 2007		11 Dec 2007		11 Dec 2007		11 Dec 2007	
Date Analyzed	11 Dec 2007		11 Dec 2007		11 Dec 2007		11 Dec 2007	
Compounds	Results	LOQ	Results	LOQ	Results	LOQ	Results	LOQ
Trichloroethene	9.1	0.50	3.2	0.50	2.3	0.50	U	0.50
Tetrachloroethene	U	0.50	U	0.50	U	0.50	U	0.50

Data File	036		037		038		040	
Sample Number	4452		4453		4454		4455	
Sample Location	MGSG2		MGSG3		MGSG4		MGSG5	
Sample Volume (ml)	5		5		5		5	
Dilution multiplier:	1		1		1		1	
Date Sampled	11 Dec 2007		11 Dec 2007		11 Dec 2007		11 Dec 2007	
Date Analyzed	11 Dec 2007		11 Dec 2007		11 Dec 2007		11 Dec 2007	
Compounds	Results	LOQ	Results	LOQ	Results	LOQ	Results	LOQ
Trichloroethene	41	0.50	45	0.50	460	0.50	U	0.50
Tetrachloroethene	U	0.50	U	0.50	U	0.50	1.2	0.50

Data File	042		043					
Sample Number	4457		4456					
Sample Location	MGSG7		MGSG6					
Sample Volume (ml)	1		1					
Dilution multiplier:	5		5					
Date Sampled	11 Dec 2007		11 Dec 2007					
Date Analyzed	11 Dec 2007		11 Dec 2007					
Compounds	Results	LOQ	Results	LOQ				
Trichloroethene	U	2.5	U	2.5				
Tetrachloroethene	U	2.5	U	2.5				

Results are in parts per billion by volume (ppbv)

U = None detected at or above the limit of quantitation

LOQ = Limit of Quantitation

mL = milliliter

TABLE 5
Results of Target Compounds for 12 December 2007
Mills Gap Road TCE Site
Skyland, North Carolina
January 2008

Data File	011		012		013		014	
Sample Number	20071212MBK-2		20071212BK-1		4459		4458	
Sample Location	Method Blank		Lot Blank		Ambient		MGSS07	
Sample Volume (ml)	5		5		5		5	
Dilution multiplier:	1		1		1		1	
Date Sampled	12 Dec 2007		12 Dec 2007		12 Dec 2007		12 Dec 2007	
Date Analyzed	12 Dec 2007		12 Dec 2007		12 Dec 2007		12 Dec 2007	
Compounds	Results	LOQ	Results	LOQ	Results	LOQ	Results	LOQ
Trichloroethene	U	0.50	U	0.50	U	0.50	U	0.50
Tetrachloroethene	U	0.50	U	0.50	U	0.50	U	0.50

Data File	015		016		017		018	
Sample Number	4460		4461		4462		4463	
Sample Location	MGSG8		MGSG9		MGSG10		MGSG11	
Sample Volume (ml)	5		5		5		5	
Dilution multiplier:	1		1		1		1	
Date Sampled	12 Dec 2007		12 Dec 2007		12 Dec 2007		12 Dec 2007	
Date Analyzed	12 Dec 2007		12 Dec 2007		12 Dec 2007		12 Dec 2007	
Compounds	Results	LOQ	Results	LOQ	Results	LOQ	Results	LOQ
Trichloroethene	U	0.50	U	0.50	U	0.50	U	0.50
Tetrachloroethene	U	0.50	U	0.50	U	0.50	U	0.50

Data File	019		020		021		022	
Sample Number	4468		4467		4469		4469 Dup	
Sample Location	MGSG12		MGSG13		MGSG14		MGSG14 Dup	
Sample Volume (ml)	5		5		5		5	
Dilution multiplier:	1		1		1		1	
Date Sampled	12 Dec 2007		12 Dec 2007		12 Dec 2007		12 Dec 2007	
Date Analyzed	12 Dec 2007		12 Dec 2007		12 Dec 2007		12 Dec 2007	
Compounds	Results	LOQ	Results	LOQ	Results	LOQ	Results	LOQ
Trichloroethene	U	0.50	U	0.50	U	0.50	U	0.50
Tetrachloroethene	U	0.50	U	0.50	U	0.50	U	0.50

Results are in parts per billion by volume (ppbv)

U = None detected at or above the limit of quantitation

LOQ = Limit of Quantitation

mL = milliliter

TABLE 5 (continued)
Results of Target Compounds for 12 December 2007
Mills Gap Road TCE Site
Skyland, North Carolina
January 2008

Data File	023		024		025		026	
Sample Number	4467		4464		4465		4470	
Sample Location	MGSG13 Dup		MGSS43		MGSS106		MGSG15	
Sample Volume (ml)	5		5		5		5	
Dilution multiplier:	1		1		1		1	
Date Sampled	12 Dec 2007		12 Dec 2007		12 Dec 2007		12 Dec 2007	
Date Analyzed	12 Dec 2007		12 Dec 2007		12 Dec 2007		12 Dec 2007	
Compounds	Results	LOQ	Results	LOQ	Results	LOQ	Results	LOQ
Trichloroethene	U	0.50	U	0.50	U	0.50	U	0.50
Tetrachloroethene	U	0.50	16	0.50	U	0.50	U	0.50

Data File	027	028	029	030				
Sample Number	4471	4472	4473	4466				
Sample Location	MGSG16	MGSG17	MGSG18	MGSS238				
Sample Volume (ml)	5	5	5	5				
Dilution multiplier:	1	1	1	1				
Date Sampled	12 Dec 2007	12 Dec 2007	12 Dec 2007	12 Dec 2007				
Date Analyzed	12 Dec 2007	12 Dec 2007	12 Dec 2007	12 Dec 2007				
Compounds	Results	LOQ	Results	LOQ	Results	LOQ	Results	LOQ
Trichloroethene	U	0.50	U	0.50	U	0.50	U	0.50
Tetrachloroethene	U	0.50	U	0.50	U	0.50	U	0.50

Results are in parts per billion by volume (ppbv)

U = None detected at or above the limit of quantitation

LOQ = Limit of Quantitation

mL = milliliter

TABLE 6
Replicate Summary for Volatile Organic Compounds for 11 December 2007
Mills Gap Road TCE Site
Skyland, North Carolina
January 2008

Data File	024	025	
Sample Number	4442	4442	
Sample Location	Ambient	Ambient dup	
Sample Volume (ml)	5	5	
Dilution multiplier:	1	1	
Date Sampled	11 Dec 2007	11 Dec 2007	
Date Analyzed	11 Dec 2007	11 Dec 2007	
Compounds	Result	Result	RPD
Trichloroethene	1.1	1.0	9.5
Tetrachloroethene	U	U	

Data File	033	034	
Sample Number	4449	4449 Dup	
Sample Location	Between seeps 3 & 4	Between seeps 3 & 4	
Sample Volume (ml)	5	5	
Dilution multiplier:	1	1	
Date Sampled	11 Dec 2007	11 Dec 2007	
Date Analyzed	11 Dec 2007	11 Dec 2007	
Compounds	Results	Results	RPD
Trichloroethene	3.2	2.3	33
Tetrachloroethene	U	U	

Results are in part per billion by volume (ppbv)

RPD = Relative Percent Difference (absolute difference of the replicate values divided by their mean, expressed as a percentage)

U = None detected at or above the limit of quantitation

TABLE 7
Replicate Summary for Volatile Organic Compounds for 12 December 2007
Mills Gap Road TCE Site
Skyland, North Carolina
December 2007

Data File	021	022	
Sample Number	4469	4469	
Sample Location	MGSG14	MGSG14 Dup	
Sample Volume (ml)	5	5	
Dilution multiplier:	1	1	
Date Sampled	12 Dec 2007	12 Dec 2007	
Date Analyzed	12 Dec 2007	12 Dec 2007	
Compounds	Result	Result	RPD
Trichloroethene	U	U	
Tetrachloroethene	U	U	

Data File	020	023	
Sample Number	4467	4467	
Sample Location	MGSG13	MGSG13 Dup	
Sample Volume (ml)	5	5	
Dilution multiplier:	1	1	
Date Sampled	12 Dec 2007	12 Dec 2007	
Date Analyzed	12 Dec 2007	12 Dec 2007	
Compounds	Results	Results	RPD
Trichloroethene	U	U	
Tetrachloroethene	U	U	

Results are in part per billion by volume (ppbv)

RPD = Relative Percent Difference (absolute difference of the replicate values divided by their mean, expressed as a percentage)

U = None detected at or above the limit of quantitation

Lockheed Martin Technology Services
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DATE: January 23, 2008
TO: R. Singhvi, EPA/ERT Analytical Work Assignment Manager
FROM: V. Kansal, REAC Analytical Section Leader *Vinod Kansal*
SUBJECT: DOCUMENT TRANSMITTAL UNDER WORK ASSIGNMENT # 0-296

Attached please find the following document prepared under this work assignment:

Mills Gap Road Site - Analytical Report

G. Powell	Work Assignment Manager (w/o attachment)
K. Woodruff	Task Leader (w/o attachment)
J. Soroka	Data Validation and Report Writing Group Leader (w/o attachment)
Central File	WA # 0-296 (w/attachment)

ANALYTICAL REPORT



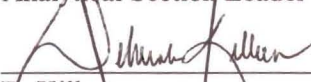

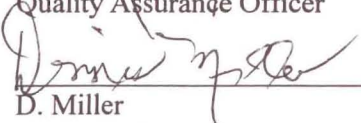
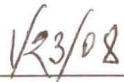
Prepared by
LOCKHEED MARTIN, Inc.

Mills Gap Road
Asheville, NC

January 2008

EPA Work Assignment No. 0-296
LOCKHEED MARTIN Work Order EAC00296
EPA Contract No. EP-C-04-032

Submitted to
G. Powell
EPA-ERT

	
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Section III

Chains of Custody

Appendices

Appendix A Data for VOC in Air	T 009
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Appendix will be furnished on request

Introduction

REAC, in response to WA# 0-296, provided analytical support for environmental samples collected from the Mills Gap Road Site in Asheville, NC as described in the following table. The support also included QA/QC, data review and preparation of an analytical report containing analytical and QA/QC results.

The samples were treated with procedures consistent with those specified in REAC SOP # 1008.

COC #	Number of Samples	Sampling Date	Date Received	Matrix	Analysis/ Method	Laboratory	Data Package
0-296-12/13/07-0001	2	12/12/07	12/17/07	Air	VOC/Modified REAC SOP 1814	REAC ¹	T 009
0-296-12/13/07-0002	1						
	1	12/13/07					
0-296-12/13/07-0003	2	12/12/07					
0-296-12/13/07-0004	2						
0-296-12/13/07-0005	2	12/13/07					
0-296-12/13/07-0006	2						
0-296-12/13/07-0007	2						
0-296-12/13/07-0008	1						

¹ REAC is NELAC certified for TO-15 analysis.

Case Narrative

The laboratory reported the data to three significant figures. Any other representation of the data is the responsibility of the user. Results less than 25 percent of the reporting limit are not reported by the laboratory. All data validation flags have been inserted into the results tables. At the request of the WAM, the laboratory reported only seventeen chlorinated compounds for the TO-15 analysis.

VOC in Air Package T 009

No special sample or certification RLs were requested for this project. The RL was based on the low standard of 0.04 ppbv from the calibration curve.

Chloromethane, chloroethane, trichlorofluoromethane, methylene chloride, carbon tetrachloride and tetrachloroethene were detected during the certification process in the SUMMA[®] canister used for sample 4507. Chloromethane, trichlorofluoromethane, methylene chloride and carbon tetrachloride results for sample 4507 were less than 5 times the certification result and are qualified estimated (J). The chloromethane, trichlorofluoromethane and methylene chloride certification results were above the sample RL; the RL was raised to the certification concentration for these compounds.

Summary of Abbreviations

BFB	Bromofluorobenzene
C	Centigrade
CLP	Contract Laboratory Program
COC	Chain of Custody
conc	concentration
cont	continued
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
D	(Surrogate Table) value is from a diluted sample and was not calculated
Dioxin	Polychlorinated dibenzo-p-dioxins (PCDD) and Polychlorinated dibenzofurans (PCDF)
DFTPP	Decafluorotriphenylphosphine
EMPC	Estimated maximum possible concentration
GC/MS	Gas Chromatography/ Mass Spectrometry
IS	Internal Standard
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MDA	Minimum Detectable Activity
MS (BS)	Matrix Spike (Blank Spike)
MSD (BSD)	Matrix Spike Duplicate (Blank Spike Duplicate)
MW	Molecular Weight
NA	Not Applicable or Not Available
NAD	Normalized Absolute Difference
NC	Not Calculated
NR	Not Requested\Not Reported
NS	Not Spiked
% D	Percent Difference
% REC	Percent Recovery
SOP	Standard Operating Procedure
ppbv	parts per billion by volume
ppm	parts per million
pptv	parts per trillion by volume
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance/Quality Control
QL	Quantitation Limit
REAC	Response Engineering and Analytical Contract
RL	Reporting Limit
RPD	Relative Percent Difference
RSD	Selected Ion Monitoring
Sur	Surrogate
TIC	Tentatively Identified Compound
TCLP	Toxicity Characteristic Leaching Procedure
VOC	Volatile Organic Compound
*	Value exceeds the acceptable QC limits.

m ³	cubic meter	g	gram	kg	kilogram	L	liter
µg	microgram	µL	microliter	mg	milligram	mL	milliliter
ng	nanogram	pg	picogram	pCi	picocurie	s	sigma

Data Validation Flags

J	Value is estimated	R	Value is unusable
J+	Value is estimated high (metals only)	U	Not detected
J-	Value is estimated low (metals only)	UJ	Not detected and RL is estimated

Rev. 01/10/08

Table 1.1a Results of the Analysis for VOC (ppbv) in Air
WA # 0-296 Mills Gap Road Site

Method Modified REAC SOP 1814

Page 1 of 2

Sample No. Location	Method Blank 071224-1		4514 Trip Blank		4502 Ambient		4513 Ambient		4500 MGSC12	
Analyte	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv
Chloromethane	U	0.0400	U	0.0400	0.553	0.0500	0.506	0.0500	0.589	0.0500
Vinyl Chloride	U	0.0400	U	0.0400	U	0.0500	U	0.0500	U	0.0500
Chloroethane	U	0.0400	U	0.0400	U	0.0500	U	0.0500	U	0.0500
Trichlorofluoromethane	U	0.0400	U	0.0400	0.227	0.0500	0.229	0.0500	0.270	0.0500
1,1-Dichloroethene	U	0.0400	U	0.0400	U	0.0500	U	0.0500	U	0.0500
Methylene Chloride	U	0.0400	U	0.0400	0.0549	0.0500	0.0842	0.0500	0.0746	0.0500
trans-1,2-Dichloroethene	U	0.0400	U	0.0400	U	0.0500	U	0.0500	U	0.0500
1,1-Dichloroethane	U	0.0400	U	0.0400	U	0.0500	U	0.0500	U	0.0500
cis-1,2-Dichloroethene	U	0.0400	U	0.0400	U	0.0500	0.178	0.0500	U	0.0500
Chloroform	U	0.0400	U	0.0400	U	0.0500	U	0.0500	0.124	0.0500
1,2-Dichloroethane	U	0.0400	U	0.0400	U	0.0500	U	0.0500	0.0230 J	0.0500
1,1,1-Trichloroethane	U	0.0400	U	0.0400	U	0.0500	0.0236 J	0.0500	U	0.0500
Carbon Tetrachloride	U	0.0400	U	0.0400	0.0794	0.0500	0.0716	0.0500	0.0875	0.0500
Trichloroethene	U	0.0400	U	0.0400	0.0230 J	0.0500	0.607	0.0500	0.0494 J	0.0500
1,1,2-Trichloroethane	U	0.0400	U	0.0400	U	0.0500	U	0.0500	U	0.0500
Tetrachloroethene	U	0.0400	U	0.0400	0.0297 J	0.0500	0.0354 J	0.0500	0.0336 J	0.0500
1,1,2,2-Tetrachloroethane	U	0.0400	U	0.0400	U	0.0500	U	0.0500	0.0441 J	0.0500

Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air
WA # 0-296 Mills Gap Road Site

Method Modified REAC SOP 1814

Sample No. Location	4507 MGSC01		4503 MGSC119		4504 MGSC113		4505 MGSC14		4506 MGSC15	
Analyte	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv
Chloromethane	0.529 J	0.235	0.585	0.0500	0.510	0.0500	0.538	0.0500	0.544	0.0500
Vinyl Chloride	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500
Chloroethane	U	0.0500	0.0584	0.0500	U	0.0500	U	0.0500	U	0.0500
Trichlorofluoromethane	0.231 J	0.123	0.237	0.0500	0.235	0.0500	0.235	0.0500	0.231	0.0500
1,1-Dichloroethene	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500
Methylene Chloride	0.0636 J	0.0542	2.45	0.0500	0.125	0.0500	0.0563	0.0500	0.0645	0.0500
trans-1,2-Dichloroethene	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500
1,1-Dichloroethane	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500
cis-1,2-Dichloroethene	0.0381 J	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500
Chloroform	U	0.0500	0.0365 J	0.0500	0.0483 J	0.0500	U	0.0500	U	0.0500
1,2-Dichloroethane	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500
1,1,1-Trichloroethane	U	0.0500	U	0.0500	0.0279 J	0.0500	U	0.0500	U	0.0500
Carbon Tetrachloride	0.0760 J	0.0500	0.0706	0.0500	0.0779	0.0500	0.0792	0.0500	0.0729	0.0500
Trichloroethene	0.161	0.0500	0.0303 J	0.0500	0.0317 J	0.0500	U	0.0500	0.0230 J	0.0500
1,1,2-Trichloroethane	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500
Tetrachloroethene	U	0.0500	0.0456 J	0.0500	0.0265 J	0.0500	U	0.0500	0.0306 J	0.0500
1,1,2,2-Tetrachloroethane	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500

Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air
WA # 0-296 Mills Gap Road Site

Method Modified REAC SOP 1814

Page 2 of 2

Sample No. Location	4501 MGSC10		4508 MGSC23		4509 MGSC25		4510 MGSC38		4511 MGSC10OW	
Analyte	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv
Chloromethane	0.527	0.0500	0.518	0.0500	0.268	0.0500	0.430	0.0500	0.332	0.0500
Vinyl Chloride	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500
Chloroethane	U	0.0500	0.0471 J	0.0500	U	0.0500	U	0.0500	U	0.0500
Trichlorofluoromethane	0.243	0.0500	0.244	0.0500	0.294	0.0500	0.272	0.0500	0.387	0.0500
1,1-Dichloroethene	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500
Methylene Chloride	0.0590	0.0500	0.0719	0.0500	0.111	0.0500	0.130	0.0500	0.0839	0.0500
trans-1,2-Dichloroethene	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500
1,1-Dichloroethane	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500
cis-1,2-Dichloroethene	U	0.0500	0.217	0.0500	1.43	0.0500	0.139	0.0500	0.107	0.0500
Chloroform	0.0226 J	0.0500	0.0820	0.0500	U	0.0500	0.0335 J	0.0500	0.0247 J	0.0500
1,2-Dichloroethane	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500
1,1,1-Trichloroethane	U	0.0500	0.0269 J	0.0500	0.0998	0.0500	0.0234 J	0.0500	0.0285 J	0.0500
Carbon Tetrachloride	0.0758	0.0500	0.0825	0.0500	0.0785	0.0500	0.0793	0.0500	0.0844	0.0500
Trichloroethene	0.0453 J	0.0500	0.489	0.0500	3.78	0.0500	0.526	0.0500	0.397	0.0500
1,1,2-Trichloroethane	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500
Tetrachloroethene	U	0.0500	U	0.0500	U	0.0500	0.0311 J	0.0500	0.133	0.0500
1,1,2,2-Tetrachloroethane	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500

Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air
WA # 0-296 Mills Gap Road Site

Method Modified REAC SOP 1814

Sample No. Location	4512 MGS10RE	
Analyte	Result ppbv	RL ppbv
Chloromethane	0.353	0.0500
Vinyl Chloride	U	0.0500
Chloroethane	U	0.0500
Trichlorofluoromethane	0.234	0.0500
1,1-Dichloroethene	U	0.0500
Methylene Chloride	0.0815	0.0500
trans-1,2-Dichloroethene	U	0.0500
1,1-Dichloroethane	U	0.0500
cis-1,2-Dichloroethene	0.186	0.0500
Chloroform	U	0.0500
1,2-Dichloroethane	U	0.0500
1,1,1-Trichloroethane	0.0260 J	0.0500
Carbon Tetrachloride	0.0791	0.0500
Trichloroethene	0.729	0.0500
1,1,2-Trichloroethane	U	0.0500
Tetrachloroethene	0.0913	0.0500
1,1,2,2-Tetrachloroethane	U	0.0500

Table 1.1b Results of the Analysis for VOC (µg/m³) in Air
WA # 0-296 Mills Gap Road Site

Method Modified REAC SOP 1814

Page 1 of 2

Sample No. Location	Method Blank 071224-1		4514 Trip Blank		4502 Ambient		4513 Ambient		4500 MGSC12	
Analyte	Result µg/m³	RL µg/m³	Result µg/m³	RL µg/m³	Result µg/m³	RL µg/m³	Result µg/m³	RL µg/m³	Result µg/m³	RL µg/m³
Chloromethane	U	0.0826	U	0.0826	1.14	0.103	1.04	0.103	1.22	0.103
Vinyl Chloride	U	0.102	U	0.102	U	0.128	U	0.128	U	0.128
Chloroethane	U	0.106	U	0.106	U	0.132	U	0.132	U	0.132
Trichlorofluoromethane	U	0.225	U	0.225	1.28	0.281	1.29	0.281	1.52	0.281
1,1-Dichloroethene	U	0.159	U	0.159	U	0.198	U	0.198	U	0.198
Methylene Chloride	U	0.139	U	0.139	0.191	0.174	0.292	0.174	0.259	0.174
trans-1,2-Dichloroethene	U	0.159	U	0.159	U	0.198	U	0.198	U	0.198
1,1-Dichloroethane	U	0.162	U	0.162	U	0.202	U	0.202	U	0.202
cis-1,2-Dichloroethene	U	0.159	U	0.159	U	0.198	0.706	0.198	U	0.198
Chloroform	U	0.195	U	0.195	U	0.244	U	0.244	0.605	0.244
1,2-Dichloroethane	U	0.162	U	0.162	U	0.202	U	0.202	0.0931 J	0.202
1,1,1-Trichloroethane	U	0.218	U	0.218	U	0.273	0.129 J	0.273	U	0.273
Carbon Tetrachloride	U	0.252	U	0.252	0.500	0.315	0.450	0.315	0.550	0.315
Trichloroethene	U	0.215	U	0.215	0.124 J	0.269	3.26	0.269	0.265 J	0.269
1,1,2-Trichloroethane	U	0.218	U	0.218	U	0.273	U	0.273	U	0.273
Tetrachloroethene	U	0.271	U	0.271	0.201 J	0.339	0.240 J	0.339	0.228 J	0.339
1,1,2,2-Tetrachloroethane	U	0.275	U	0.275	U	0.343	U	0.343	0.303 J	0.343

Table 1.1b (cont) Results of the Analysis for VOC (µg/m³) in Air
WA # 0-296 Mills Gap Road Site

Method Modified REAC SOP 1814

Sample No. Location	4507 MGSC01		4503 MGSC119		4504 MGSC113		4505 MGSC14		4506 MGSC15	
Analyte	Result µg/m³	RL µg/m³	Result µg/m³	RL µg/m³	Result µg/m³	RL µg/m³	Result µg/m³	RL µg/m³	Result µg/m³	RL µg/m³
Chloromethane	1.09 J	0.484	1.21	0.103	1.05	0.103	1.11	0.103	1.12	0.103
Vinyl Chloride	U	0.128	U	0.128	U	0.128	U	0.128	U	0.128
Chloroethane	U	0.132	0.154	0.132	U	0.132	U	0.132	U	0.132
Trichlorofluoromethane	1.30 J	0.691	1.33	0.281	1.32	0.281	1.32	0.281	1.30	0.281
1,1-Dichloroethene	U	0.198	U	0.198	U	0.198	U	0.198	U	0.198
Methylene Chloride	0.221 J	0.189	8.51	0.174	0.434	0.174	0.196	0.174	0.224	0.174
trans-1,2-Dichloroethene	U	0.198	U	0.198	U	0.198	U	0.198	U	0.198
1,1-Dichloroethane	U	0.202	U	0.202	U	0.202	U	0.202	U	0.202
cis-1,2-Dichloroethene	0.151 J	0.198	U	0.198	U	0.198	U	0.198	U	0.198
Chloroform	U	0.244	0.178 J	0.244	0.236 J	0.244	U	0.244	U	0.244
1,2-Dichloroethane	U	0.202	U	0.202	U	0.202	U	0.202	U	0.202
1,1,1-Trichloroethane	U	0.273	U	0.273	0.152 J	0.273	U	0.273	U	0.273
Carbon Tetrachloride	0.478 J	0.315	0.444	0.315	0.490	0.315	0.498	0.315	0.459	0.315
Trichloroethene	0.865	0.269	0.163 J	0.269	0.170 J	0.269	U	0.269	0.124 J	0.269
1,1,2-Trichloroethane	U	0.273	U	0.273	U	0.273	U	0.273	U	0.273
Tetrachloroethene	U	0.339	0.309 J	0.339	0.180 J	0.339	U	0.339	0.208 J	0.339
1,1,2,2-Tetrachloroethane	U	0.343	U	0.343	U	0.343	U	0.343	U	0.343

Table 1.1b (cont) Results of the Analysis for VOC ($\mu\text{g}/\text{m}^3$) in Air
WA # 0-296 Mills Gap Road Site

Method Modified REAC SOP 1814

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Sample No. Location	4501 MGSC10		4508 MGSC23		4509 MGSC25		4510 MGSC38		4511 MGSC10OW	
Analyte	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$
Chloromethane	1.09	0.103	1.07	0.103	0.553	0.103	0.888	0.103	0.686	0.103
Vinyl Chloride	U	0.128	U	0.128	U	0.128	U	0.128	U	0.128
Chloroethane	U	0.132	0.124 J	0.132	U	0.132	U	0.132	U	0.132
Trichlorofluoromethane	1.37	0.281	1.37	0.281	1.65	0.281	1.53	0.281	2.17	0.281
1,1-Dichloroethene	U	0.198	U	0.198	U	0.198	U	0.198	U	0.198
Methylene Chloride	0.205	0.174	0.250	0.174	0.386	0.174	0.452	0.174	0.291	0.174
trans-1,2-Dichloroethene	U	0.198	U	0.198	U	0.198	U	0.198	U	0.198
1,1-Dichloroethane	U	0.202	U	0.202	U	0.202	U	0.202	U	0.202
cis-1,2-Dichloroethene	U	0.198	0.860	0.198	5.67	0.198	0.551	0.198	0.424	0.198
Chloroform	0.110 J	0.244	0.400	0.244	U	0.244	0.164 J	0.244	0.121 J	0.244
1,2-Dichloroethane	U	0.202	U	0.202	U	0.202	U	0.202	U	0.202
1,1,1-Trichloroethane	U	0.273	0.147 J	0.273	0.545	0.273	0.128 J	0.273	0.155 J	0.273
Carbon Tetrachloride	0.477	0.315	0.519	0.315	0.494	0.315	0.499	0.315	0.531	0.315
Trichloroethene	0.243 J	0.269	2.63	0.269	20.3	0.269	2.83	0.269	2.13	0.269
1,1,2-Trichloroethane	U	0.273	U	0.273	U	0.273	U	0.273	U	0.273
Tetrachloroethene	U	0.339	U	0.339	U	0.339	0.211 J	0.339	0.902	0.339
1,1,2,2-Tetrachloroethane	U	0.343	U	0.343	U	0.343	U	0.343	U	0.343

Table 1.1b (cont) Results of the Analysis for VOC ($\mu\text{g}/\text{m}^3$) in Air
WA # 0-296 Mills Gap Road Site

Method Modified REAC SOP 1814

Sample No. Location	4512 MGS10RE	
Analyte	Result $\mu\text{g}/\text{m}^3$	RL $\mu\text{g}/\text{m}^3$
Chloromethane	0.729	0.103
Vinyl Chloride	U	0.128
Chloroethane	U	0.132
Trichlorofluoromethane	1.31	0.281
1,1-Dichloroethene	U	0.198
Methylene Chloride	0.283	0.174
trans-1,2-Dichloroethene	U	0.198
1,1-Dichloroethane	U	0.202
cis-1,2-Dichloroethene	0.737	0.198
Chloroform	U	0.244
1,2-Dichloroethane	U	0.202
1,1,1-Trichloroethane	0.142 J	0.273
Carbon Tetrachloride	0.498	0.315
Trichloroethene	3.92	0.269
1,1,2-Trichloroethane	U	0.273
Tetrachloroethene	0.619	0.339
1,1,2,2-Tetrachloroethane	U	0.343

Table 2.1 Results of the LCS Analysis for VOC in Air
WA # 0-296 Mills Gap Road Site

Page 1 of 1

Sample No. LCS: TO15E55LCS AT 99

Analyte	LCS Spike Added ppbv	LCS Result ppbv	% Recovery	QC Limits % Recovery
Chloromethane	1.03	1.04	101	70-130
Vinyl Chloride	1.03	1.00	97	70-130
Chloroethane	1.05	1.03	98	70-130
Trichlorofluoromethane	1.06	1.09	103	70-130
1,1-Dichloroethene	1.05	1.12	106	70-130
Methylene Chloride	1.05	1.11	106	70-130
trans-1,2-Dichloroethene	1.05	1.07	102	70-130
1,1-Dichloroethane	1.05	1.12	106	70-130
cis-1,2-Dichloroethene	1.05	0.881	84	70-130
Chloroform	1.02	0.909	89	70-130
1,2-Dichloroethane	1.05	0.922	88	70-130
1,1,1-Trichloroethane	1.05	0.984	94	70-130
Carbon Tetrachloride	1.04	0.956	92	70-130
Trichloroethene	1.04	0.951	91	70-130
1,1,2-Trichloroethane	1.03	0.945	92	70-130
Tetrachloroethene	1.04	0.818	79	70-130
1,1,2,2-Tetrachloroethane	1.01	0.794	79	70-130

Table 2.2 Results of the Duplicate Analysis for VOC in Air
WA # 0-296 Mills Gap Road Site

Page 1 of 1

Sample Number 4501

Analyte	Initial Analysis Results ppbv	Duplicate Analysis Results ppbv	RPD	QC Limit RPD≤*
Chloromethane	0.527	0.540	2	25
Vinyl Chloride	U	U	NC	25
Chloroethane	U	U	NC	25
Trichlorofluoromethane	0.243	0.245	1	25
1,1-Dichloroethene	U	U	NC	25
Methylene Chloride	0.0590	0.0596	1	25
trans-1,2-Dichloroethene	U	U	NC	25
1,1-Dichloroethane	U	U	NC	25
cis-1,2-Dichloroethene	U	U	NC	25
Chloroform	0.0226 J	0.0234 J	NC	25
1,2-Dichloroethane	U	U	NC	25
1,1,1-Trichloroethane	U	U	NC	25
Carbon Tetrachloride	0.0758	0.0796	5	25
Trichloroethene	0.0453 J	0.0478 J	NC	25
1,1,2-Trichloroethane	U	U	NC	25
Tetrachloroethene	U	U	NC	25
1,1,2,2-Tetrachloroethane	U	U	NC	25

Sample Number 4507

Analyte	Initial Analysis Results ppbv	Duplicate Analysis Results ppbv	RPD	QC Limit RPD≤*
Chloromethane	0.529	0.565	7	25
Vinyl Chloride	U	U	NC	25
Chloroethane	U	U	NC	25
Trichlorofluoromethane	0.231	0.236	2	25
1,1-Dichloroethene	U	U	NC	25
Methylene Chloride	0.0636	0.0654	3	25
trans-1,2-Dichloroethene	U	U	NC	25
1,1-Dichloroethane	U	U	NC	25
cis-1,2-Dichloroethene	0.0381J	0.0407 J	NC	25
Chloroform	U	U	NC	25
1,2-Dichloroethane	U	U	NC	25
1,1,1-Trichloroethane	U	U	NC	25
Carbon Tetrachloride	0.0760	0.0739	3	25
Trichloroethene	0.161	0.152	6	25
1,1,2-Trichloroethane	U	U	NC	25
Tetrachloroethene	U	U	NC	25
1,1,2,2-Tetrachloroethane	U	U	NC	25

* Applies to results>RL

REAC, Edison, NJ

(732) 321-4200

EP-C-04-032

CHAIN OF CUSTODY RECORD

Site #: 0-296

Contact Name: John Johnson

No: 0-296-12/13/07-0001

Cooler #: 383

Lab: REAC

Lab Phone: 732-494-4000

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	SUMMA	OrificeID	Stop Pressure
15916	4500	MGSC12	VOCS (volatiles)	Air	12/12/2007	1	Summa Canister	None	000180	001061	-14
15917	4501	MGSC10	VOCS (volatiles)	Air	12/12/2007	1	Summa Canister	None	000163	001015	-3

Special Instructions: TO-15 / TCE detection limit as requested by PWA

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All analyses	J. McCall	12/14/07	John Johnson	12/17/07	10:25	All Analysis	John Johnson	12/17/07	J. Deel	12/17/07	12:00

0296-DAR-012308

010

REAC, Edison, NJ

(732) 321-4200

EP-C-04-032

CHAIN OF CUSTODY RECORD

Site #: 0-296

Contact Name: John Johnson

No: 0-296-12/13/07-0002

Cooler #: 6651

Lab: REAC

Lab Phone: 732-494-4000

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	SUMMA	OrificeID	Stop Pressure
5918	4502	Ambient	VOCS (volatiles)	Air	12/12/2007	1	Summa Canister	None	000187	001055	-10
5919	4514	Trip Blank	VOCS (volatiles)	Air	12/13/2007	1	Summa Canister	None	000138		

Special Instructions: TO-15 / TCE detection limit as requested by PWA

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All analyses	McCall	12/14/07	James Patton	12/17/07	10:25	All/Analyses	James Patton	12/17/07	J. Bell	12/17/07	1:12

REAC, Edison, NJ

(732) 321-4200

EP-C-04-032

CHAIN OF CUSTODY RECORD

Site #: 0-296

Contact Name: John Johnson

No: 0-296-12/13/07-0003

Cooler #: 414

Lab: REAC

Lab Phone: 732-494-4000

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	SUMMA	OrificeID	Stop Pressure
5920	4503	MGSC119	VOCS (volatiles)	Air	12/12/2007	1	Summa Canister	None	000072	001045	-8.5
5921	4504	MGSC113	VOCS (volatiles)	Air	12/12/2007	1	Summa Canister	None	000197	013093	-8

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Special Instructions: TO-15 / TCE detection limit as requested by PWA

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All analyses	McCall	12/14/07	Jimmy Martin	12/17/07	10:25	All Analyses	Jimmy Martin	12/17/07	J. Hall	12/17/07	18:42

0296-DAR-012308

012

EP-C-04-032

Contact Name: John Johnson

Lab Phone: 732-494-4000

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Special Instructions: TO-15 / TCE detection limit as requested by PWA

[illegible]

REAC, Edison, NJ

(732) 321-4200

EP-C-04-032

CHAIN OF CUSTODY RECORD

Site #: 0-296

Contact Name: John Johnson

No: 0-296-12/13/07-0005

Cooler #: 6659

Lab: REAC

Lab Phone: 732-494-4000

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	SUMMA	OrificeID	Stop Pressure
5924	4507	MGSC01	VOCS (volatiles)	Air	12/13/2007	1	Summa Canister	None	000134	001023	0
5925	4508	MGSC23	VOCS (volatiles)	Air	12/13/2007	1	Summa Canister	None	000198	001039	-7

Special Instructions:

10-15 / TCE detection limit as requested by PWA

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All analyses	Smell	12/14/07	John Johnson	12/17/07	10:25	All Analysis	John Johnson	12/17/07	J. Bell	12/17/07	10:25

(732) 321-4200

EP-C-04-032

Site #: 0-296

Contact Name: John Johnson

Cooler #: 377

Lab: REAC

Lab Phone: 732-494-4000

[illegible]

Special Instructions: TO-15 / TCE detection limit as requested by PWA

CHAIN OF CUSTODY #

[illegible]

REAC, Edison, NJ
(732) 321-4200

EP-C-04-032

CHAIN OF CUSTODY RECORD

Site #: 0-296
Contact Name: John Johnson

No: 0-296-12/13/07-0007

Cooler #: 375

Lab: REAC

Lab Phone: 732-494-4000

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	SUMMA	OrificeID	Stop Pressure
15928	4511	MGSC10OW	VOCS (volatiles)	Air	12/13/2007	1	Summa Canister	None	000244	001062	-7
15929	4512	MGSC10RE	VOCS (volatiles)	Air	12/13/2007	1	Summa Canister	None	000144	001047	-11.5

Special Instructions:

10-15/ ICE detection limit as requested in PWA

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All analyses	Jundall	12/14/07	John Johnson	12/17/07	10:25	All Analysis	John Johnson	12/17/07	Jundall	12/17/07	10:25

Contact Name: John Johnson

Lab Phone: 732-494-4000

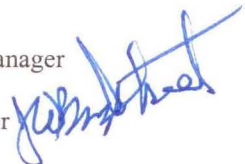
Special Instructions: <i>10-15/TCE Detection limit as requested in PWA</i>	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #


[illegible]



DATE: 18 January 2008

TO: Gregory Powell, U.S. EPA/ERT Work Assignment Manager

THROUGH: Jeffrey Bradstreet, REAC Air Response Section Leader 

FROM: Kenneth Woodruff, REAC Task Leader 

SUBJECT: DOCUMENT TRANSMITTAL UNDER WORK ASSIGNMENT # 0-296

Attached please find the following document prepared under this work assignment:

FINAL ANALYTICAL TAGA REPORT
MILLS GAP ROAD TCE SITE
SKYLAND, NC
JANUARY 2008


cc: Central File - WA # 0-296(w/attachment)
Electronic File – I:/Archive/REAC4/0-296/D/FA/010908
Dennis A. Miller, REAC Program Manager (w/o attachment)

FINAL ANALYTICAL TAGA REPORT
MILLS GAP ROAD TCE SITE
SKYLAND, NC
JANUARY 2008

U.S. EPA Work Assignment No.: 0-296
LOCKHEED MARTIN Work Order No.: EAC00296
U.S. EPA Contract No.: EP-C-04-032

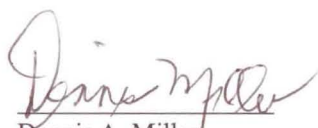
Submitted to
Gregory Powell
U.S. EPA/ERT

Prepared by:
Lockheed Martin/REAC


Kenneth Woodruff
REAC Task Leader

1/22/08
Date

Analysis by:
John Wood


Dennis A. Miller
REAC Program Manager

1/29/08
Date

Prepared by:
John Wood

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1.0 INTRODUCTION

The Environmental Protection Agency (EPA)/Environmental Response Team (ERT) issued Work Assignment (WA) Number 0-296, Mills Gap Road TCE Site in Skyland, NC, to Lockheed Martin under the Response Engineering and Analytical Contract (REAC). As an element of this WA, REAC personnel were to conduct target compound monitoring using the ECA Trace Atmospheric Gas Analyzer (TAGA) IIe, to assist EPA Region IV in its investigation of residential indoor air quality.

The TAGA air monitoring events conducted from 10 through 12 December 2007 were screening in nature. Air monitoring for trichloroethene (TCE) and tetrachloroethene (PCE) was performed in accordance with the REAC Draft Standard Operating Procedure (SOP) # 1711, *Trace Atmospheric Gas Analyzer (TAGA) IIe Operations*. Real-time monitoring for the target compounds was performed using a selected ion technique.

2.0 METHODOLOGY

2.1 Mass Spectrometer/Mass Spectrometer General Theory

The ECA TAGA IIe is based upon the Perkin-Elmer API 365 mass spectrometer/mass spectrometer (MS/MS) and is a direct air-monitoring instrument capable of detecting, in real time, trace levels of many organic compounds in ambient air. The technique of triple quadrupole MS/MS is used to differentiate and quantitate compounds.

The initial step in the MS/MS process involves simultaneous chemical ionization of the compounds present in a sample of ambient air. The ionization produces both positive and negative ions by donating or removing one or more electrons. The chemical ionization is a "soft" ionization technique, which allows ions to be formed with little or no structural fragmentation. These ions are called parent ions. The parent ions with different mass-to-charge (m/z) ratios are separated by the first quadrupole (the first MS of the MS/MS system). The quadrupole scans selected m/z ratios allowing only the parent ions with these ratios to pass through the quadrupole. Parent ions with m/z ratios different than those selected are discriminated electronically and fail to pass through the quadrupole.

The parent ions selected in the first quadrupole are accelerated through a collision cell containing uncharged nitrogen molecules in the second quadrupole. A portion of the parent ions entering the second quadrupole fragments as they collide with the nitrogen molecules. These fragment ions are called daughter ions. This process, in the second quadrupole, is called collision induced dissociation. The daughter ions are separated according to their m/z ratios by the third quadrupole (the second MS of the MS/MS system). The quadrupole scans selected m/z ratios, allowing only the daughter ions with these ratios to pass through the quadrupole. Daughter ions with m/z ratios different than those selected are discriminated electronically and fail to pass through the quadrupole. Daughter ions with the selected m/z ratios are then counted by an electron multiplier. The resulting signals are measured in ion counts per second (icps) for each parent/daughter ion pair selected. The intensity of the icps for each parent/daughter ion pair is directly proportional to the ambient air concentration of the organic compound that produced the ion pair. All of the ions discussed in this report have a single charge. The m/z ratios of all of the ions discussed are equal to the ion masses in atomic mass units (amu). Therefore, the terms parent and daughter masses are synonymous with parent and daughter ion m/z ratios.

2.2 TAGA Procedure

The TAGA was used to analyze indoor air and outdoor ambient air during stationary and mobile monitoring events. Indoor monitoring utilized a 300-foot corrugated Teflon[®] sampling hose. The proximal end was attached to the TAGA source inlet, while the distal end was taken inside a unit. For mobile monitoring, one end of a 4-foot corrugated Teflon[®] sampling hose was attached to the

TAGA source inlet, while the other was attached to a glass transfer tube passing through the wall of the bus during the monitoring event. In both cases, air was continuously drawn through the hose at a set flow rate and transported to the TAGA source during the monitoring event.

2.2.1 TAGA Mass Calibration

At the beginning of the monitoring period, a gas mixture containing benzene, toluene, xylenes, tetrachloroethene, trichloroethene, 1,1-dichloroethene, and vinyl chloride was introduced by a mass flow controller (MFC) into the sample air flow (SAF). The tuning parameters for the first quadrupole at 30, 78, 106, 130, and 166 amu, and the third quadrupole at 30, 78, 105, 129, and 166 amu were optimized for sensitivity and mass assignment. The peak widths were limited between 0.55 amu and 0.85 amu. The mass assignments were set to the correct values within 0.15 amu.

2.2.2 TAGA Response Factor Measurements

The TAGA was calibrated for the target compounds at appropriate times selected by the TAGA operator. The calibration system consisted of a regulated gas cylinder containing a gas standard mixture of the target compounds connected to an in-line MFC. The MFC was calibrated with a National Institute of Standards and Technology (NIST) traceable flow rate meter. The gas standard certification is presented in Appendix A. The gas standard containing a known mixture of target compounds, certified by the supplier, was regulated at preset flow rates, and diluted with ambient air. The dilution of the gas standard resulted in known analyte concentrations. The calibration consisted of a zero point and five known concentrations obtained by setting the MFC to 0, 10, 20, 40, 80, and 90 milliliters per minute (mL/min) with the SAF at 1,500 milliliters per second (mL/sec).

The approximate concentration range of standards introduced into the TAGA was between 2 and 21 parts per billion by volume (ppbv). Utilizing the analytes' concentrations, gas flow rates, air sampling flow rates, and atmospheric pressure, response factors (RFs), in units of ion counts per second per part per billion by volume (icps/ppbv), were calculated for each ion pair by using a least-square-fit algorithm to calculate the slope of its curve. The coefficient of determination was checked for each ion pair's RF to ensure that it was greater than 0.90. The RF of each analyte was used to quantify the target compounds in ambient air. The intermediate response factor (IRF) was calculated between pairs of calibrations and used to quantify target compounds in ambient air.

2.2.3 Transport Efficiency

The transport efficiency and residence time for the target compounds through the 300-foot length of corrugated Teflon® sampling hose was determined prior to and at the conclusion of indoor air monitoring activities each day. The transport efficiency was determined by introducing a known concentration of the target compounds into the proximal end and then into the distal end of the sampling hose. The signal intensity of each ion pair for each compound was measured in icps and the percent (%) transport efficiency calculated using the equation below:

$$\% \text{ transport efficiency} = \frac{\text{signal intensity at the distal end of the hose}}{\text{signal intensity at the proximal end of the hose}} \times 100$$

A transport efficiency of 85 percent is considered acceptable and results are summarized in Table 1.

The residence time is the interval, in seconds, it takes the air sample to travel the length of the sampling hose. The residence time, which reflects a time difference between the sampling and the instrument response, is incorporated in the offset. The offset, which is the total number of sequences acquired during the residence time, is applied to the monitoring files (Figures 2a to 6a and Figures 2b to 6b). Therefore, the observations and instrument responses are temporally coordinated.

2.2.4 TAGA Air Monitoring

TAGA monitoring was performed by continuously drawing air through the Teflon[®] hose at a flow-rate of approximately 1,500 mL/sec. The air was then passed through a glass splitter where the pressure gradient between the mass spectrometer core and the atmosphere causes a sample flow of approximately 10 mL/min into the ionization source through a heated transfer line. The flow into the TAGA source was controlled so that the ionization source pressure was maintained at an optimum value of approximately 2.6 torr. The remaining airflow was drawn through the air pump and vented from the TAGA bus.

Monitoring was performed in the parent/daughter ion-monitoring mode. As monitoring proceeded, the operator pressed letter keys (flags), alphabetically on a computer keyboard, to denote events or locations during the monitoring event. This information was also recorded on an event log sheet. The intensity of each parent/daughter ion pair monitored by the TAGA was recorded in a permanent file on the computer's hard drive. One set of recorded measurements of all the ion pairs is called a sequence.

At the beginning of each unit survey, a one-minute pre-entry ambient data segment was collected. At the operator's signal, the sampler then entered the unit while holding the distal end of the hose at breathing height. The sampler proceeded to each room in the unit where one-minute data segments were collected. After the rooms in the unit were monitored, a one-minute post-exit ambient data segment was collected. Upon completion of the one-minute post-exit ambient data segment, the instrumentation was challenged with the calibration standard, which was introduced at 30 mL/min (approximately 7 ppbv), to verify that the system was functioning properly.

2.3 Meteorological Monitoring

Data were collected from the Portable Meteorological Tower installed at the site on Mills Gap Road. Meteorological data, such as wind speed, wind direction, and rainfall, are averaged for each monitoring period, and summarized in Table 2. The compiled meteorological data are presented in Appendix B. Each entry in Appendix B represents a five minute average, ending at the reported time. The reported data for rainfall is an average of the data recorded during the monitoring period.

3.0 TAGA AIR MONITORING RESULTS

The TAGA was used to survey indoor air in the crawl space of residential units in the vicinity of the Mills Gap Road TCE Site. Two mobile monitoring surveys were also performed following a path selected by the work assignment manager (WAM). Additionally, an attempt was made to use the 300-foot hose to monitor ambient air in the vicinity of several springs down slope from the facility.

3.1 Unit Surveys

The TAGA was used to perform one-minute monitoring of the crawlspace underneath each unit. Floor plans were not required, and are, therefore, not provided. In some cases, the crawlspace

was entered through the house. In other cases, entry to the crawlspace was available from outside the house.

3.2 Outdoor Air Survey

The TAGA mobile laboratory was parked adjacent to the site fence, and the 300-foot hose was passed through the fence in an attempt to monitor ambient air in the vicinity of multiple springs located down a steep grade below the facility. Only one seep could be reached. (See Figure 2a)

3.3 Mobile Monitoring Paths

Figures 1a and 7a present the monitoring paths taken by the TAGA mobile laboratory as it traveled in the vicinity of the Mills Gap Road. The maps, representing the monitoring paths, are marked by letters. These letters are the "flags" that the TAGA operator placed into the file. These "flags" mark events and are carried through the rest of the data presentation.

3.4 TAGA File Event Summaries

Figures 1b, 2b, 3a through 6a, and 7b present the TAGA file event summaries. These are the observations made during the file acquisition by the TAGA operator, along with the times from the TAGA file and the letter "flags" used to mark the data, which are recorded by the TAGA computer.

3.5 Graphical Presentations

Figures 1c, 2c, 3b through 6b, and 7c are the graphical representations of the TAGA files. A graph of each target compound concentration is presented with ppbv plotted on the vertical axis, and time into the acquisition, in minutes, on the horizontal axis. The target compound concentration was calculated by averaging the concentrations obtained from the ion pairs that were monitored for each target compound. There are two horizontal lines on each graph. The lower line is set at the detection limit (DL) for the compound. The higher line is set at the concentration equal to the quantitation limit (QL) for the target compound. When high concentrations are represented, the lower DL line may not be readily discerned. Transient, momentary spikes above the QL line are occasionally observed. These spikes, electronic in nature, do not affect average concentrations. They may be distinguished from elevated concentrations because the spikes are only present for one sequence and are often only present for one ion pair of the monitored compound.

3.6 TAGA Target Compound Summaries

Figures 2d, and 3c through 6c present the TAGA target compound summaries. These figures contain the concentrations of the target compounds averaged over time, at the various locations logged into the TAGA file event summaries.

4.0 DISCUSSION OF RESULTS

The TAGA target compound summaries are represented in Figures 2d, and 3c through 6c. During each crawlspace survey, a one-minute average was measured in the crawlspace. Only the highest average concentrations above the QL are listed below.

During each mobile monitoring period, the TAGA mobile laboratory monitored continuously while moving along the roads in the vicinity of the Mills Gap Road TCE Site.

4.1 Mobile Monitoring at Mills Gap Road, File MGR002

Mobile monitoring was performed on 10 December 2007 at 17:25:40 and is represented in Figures 1a through 1c, starting at location A and ending at location P along the path depicted in Figure 1a. The average wind speed and direction on site during the monitoring period was 1.0 miles per hour (mph) from 302 degrees. There was no precipitation during the preceding hour. The highest instantaneous concentration for trichloroethene was 21 ppbv at 10.77 minutes, while driving on Mills Gap Road, between flags H and I, just after passing the Hidden Valley entrance, at Surrey Run. The instantaneous concentrations of tetrachloroethene was not detected above its quantitation limit.

4.2 Outdoor Air Survey, File MGR007

The slope extending downward from the Eastern side of the property line was surveyed on 11 December 2007 at 11:51:51 and is represented in Figures 2a through 2d. The average wind speed and direction on site during the monitoring period was 2.5 mph from 142 degrees. There was no precipitation during the preceding hour. The average concentration of trichloroethene was 0.20 ppbv at Seep A, between flags E and F. Tetrachloroethene was not detected above its quantitation limit.

4.3 Unit 12 Survey, File MGR010

Unit 12 was surveyed on 11 December 2007 at 14:58:07 and is represented in Figures 3a through 3c. The average wind speed and direction on site during the monitoring period was 2.9 mph from 119 degrees. There was no precipitation during the preceding hour. Trichloroethene and tetrachloroethene were not detected above their quantitation limits.

4.4 Unit 119 Survey, File MGR012

Unit 119 was surveyed on 11 December 2007 at 16:16:28 and is represented in Figures 4a through 4c. The average wind speed and direction on site during the monitoring period was 1.7 mph from 110 degrees. There was no precipitation during the preceding hour. Trichloroethene and tetrachloroethene were not detected above their quantitation limits.

4.5 Unit 113 Survey, File MGR013

Unit 113 was surveyed on 11 December 2007 at 16:55:35 and is represented in Figures 5a through 5c. The average wind speed and direction on site during the monitoring period was 2.4 mph from 89 degrees. There was no precipitation during the preceding hour. Trichloroethene and tetrachloroethene were not detected above their quantitation limits.

4.6 Unit 01 Survey, File MGR018

Unit 01 was surveyed on 12 December 2007 at 10:14:00 and is represented in Figures 6a through 6c. The average wind speed and direction on site during the monitoring period was 1.3 mph from 239 degrees. There was no precipitation during the preceding hour. The highest average concentration of trichloroethene was 0.23 ppbv in the crawlspace, between flags C and D. Tetrachloroethene was not detected above its quantitation limit.

4.7 Mobile Monitoring at Mills Gap Road, File MGR021

Mobile monitoring was performed on 12 December 2007 at 12:11:54 and is represented in Figures 7a through 7c, starting at location A and ending at location N along the path depicted in Figure 7a. The average wind speed and direction on site during the monitoring period was 6.2 mph from 310 degrees. There was no precipitation during the preceding hour. The highest instantaneous

concentration for trichloroethene was 0.49 ppbv at 12.837 minutes, while driving on Mills Gap Road, between flags K and L, just before passing the Hidden Valley entrance, at Surrey Run. The instantaneous concentrations of tetrachloroethene was not detected above its quantitation limit. The apparent instantaneous maximum for tetrachloroethene above its quantitation limit was for a single ion pair, and is associated with electronic interference.

5.0 QUALITY ASSURANCE/QUALITY CONTROL

The compound parent/daughter ion pairs used are listed below.

Compound	Parent Ion Mass	Daughter Ion Mass
Trichloroethene	130	95
Trichloroethene	132	95
Trichloroethene	132	97
Tetrachloroethene	164	129
Tetrachloroethene	166	129
Tetrachloroethene	166	131

Table 3 documents the RFs and IRFs generated during the calibration procedure for the individual ion pairs. Response Factors and Intermediate Response Factors were used to quantitate the ion pair concentrations.

The summaries of detection and quantitation limit data for the monitoring periods (Section 5.3 and Table 4) document the concentration, in ppbv, required for a compound's ion pair to be considered detectable and quantifiable during the specified monitoring period. The DL is defined as three times the standard deviation of the concentration for a compound's ion pair measured in an ambient air sample. The QL is defined as 10 times the standard deviation of the concentration for the same conditions.

The summaries of the target compound detection and quantitation limits measured during the monitoring periods (Section 5.4 and Table 4) document the concentration, in ppbv, required for the compound to be considered detectable and quantifiable. The detection and quantitation limits for a compound result from averaging the appropriate detection and quantitation limits of the compound's ion pairs.

5.1 Intermediate Response Factor for Ion Pairs

Response factors were generated from two calibration events, as described in the procedure (Section 2.2.2.). Table 3 contains the RFs in units of icps/ppbv. The initial and final RFs were used to calculate the IRFs, which were used to calculate the reported concentration results.

The following equation was used to calculate the IRFs found in Tables 3 and 4:

$$IRF = \frac{2(RF_1 \times RF_2)}{(RF_1 + RF_2)}$$

where:

IRF = Intermediate response factor (icps/ppbv)

RF₁ = The RF for an ion pair measured during the first calibration event (icps/ppbv)

RF₂ = The RF for the same ion pair measured during the second calibration event (icps/ppbv)

For example, the entry for the 130/95 ion pair of trichloroethene from Table 3 for files MGR011 and MGR014, 11 December 2007 is:

$$RF_1 = 2909.0 \text{ icps/ppbv}$$

$$RF_2 = 2841.2 \text{ icps/ppbv}$$

therefore,

$$IRF = \frac{2(2909.0 \times 2841.2)}{(2909.0 + 2841.2)} = \frac{16,530,101}{5,750.2} = 2,874.7 \text{ icps/ppbv}$$

The result, 2,874.7 icps/ppbv, is the IRF reported in Table 3 and used in Table 4.

5.2 Error Bars

The potential maximum concentration percent deviations for each target compound are presented in Table 3 and are called “error bars” for simplicity. They represent the potential bias in the concentration due to changes in the sensitivity of the TAGA instrument. Errors bars were calculated using the following equation:

$$\text{error bar} = \frac{|RF_1 - RF_2|}{(RF_1 + RF_2)} \times 100$$

where:

error bar = Maximum concentration percent deviation

RF_1 = The RF for an ion pair measured during the first calibration event (icps/ppbv)

RF_2 = The RF for the same ion pair measured during the second calibration event (icps/ppbv)

For example, the entry for the 130/95 ion pair of trichloroethene from Table 3 for files MGR011 and MGR014, 11 December 2007 is:

$$RF_1 = 2909.0 \text{ icps/ppbv}$$

$$RF_2 = 2841.2 \text{ icps/ppbv}$$

$$\text{error bar} = \frac{|2909.0 - 2841.2|}{(2909.0 + 2841.2)} \times 100 = 1.18\%$$

The % error bar calculated for the 130/95 ion pair of trichloroethene is 1.18% for files MGR011 and MGR014, 11 December 2007.

The above calculation was repeated for each ion pair. The error bars for each compound's ions were averaged to give a single value for the compound. This averaged error bar can be applied to the samples analyzed between the two calibrations of the monitoring period.

5.3 Ion Pair Detection and Quantitation Limits

The DLs and QLs were calculated using the standard deviation (SD) of the compound's ion pair intensity measured in an ambient air sample and its RF. The SD reflects the variability of the instrument's response to the ambient air sample.

The following equation was used to calculate the DLs found in Table 4:

$$DL = \frac{3 \times SD}{RF \text{ or } IRF}$$

where:

DL = Detection limit for an ion pair (ppbv)

SD = Standard deviation of the ion intensity measured in an ambient air sample (icps)

RF/IRF = Response/Intermediate response factor for an ion pair (icps/ppbv)

For example, the entry for the 130/95 ion pair of trichloroethene from Table 4, files MGR011 and MGR014, 11 December 2007 is:

SD = 24.693 icps

IRF = 2874.7 icps/ppbv

$$DL = \frac{3 \times 24.693}{2874.7} = 0.0258 \text{ ppbv}$$

The following equation was used to calculate the QLs found in Table 4:

$$QL = \frac{10 \times SD}{RF \text{ or } IRF}$$

where:

QL = Quantitation limit concentration for an ion pair (ppbv)

SD = Standard deviation of the ion intensity measured in an ambient air sample (icps)

RF/IRF = Response/Intermediate response factor for an ion pair (icps/ppbv)

For example, the entry for the 130/95 ion pair of trichloroethene from Table 4, files MGR011 and MGR014, 11 December 2007 is:

SD = 24.693 icps

IRF = 2874.7 icps/ppbv

$$QL = \frac{10 \times 24.693}{2874.7} = 0.0859 \text{ ppbv}$$

5.4 Compound Detection and Quantitation Limits

Averaging the respective DLs and QLs of the target compound's ion pairs found in Table 4 generated the DLs and QLs found in Table 4.

The following equation was used to calculate the compound's DL:

$$DL_c = \frac{DL_1 + DL_2 + \dots + DL_n}{n}$$

where:

DL_c = Detection limit for a compound (ppbv)
DL₁ = Detection limit for the first ion pair (ppbv)
DL₂ = Detection limit for the second ion pair (ppbv)
DL_n = Detection limit for the nth ion pair (ppbv)
n = Number of ion pairs to be averaged

For example, using the entries for the 130/95, 132/95 and 132/97 ion pairs of trichloroethene from Table 4 for files MGR011 and MGR014, 11 December 2007 is:

$$DL_c = \frac{0.0258 + 0.0394 + 0.0264}{3} = \frac{0.0916}{3} = 0.0305 \text{ ppbv}$$

This result, 0.0305 ppbv, rounded to 0.031 ppbv is the DL for trichloroethene found in Table 4.

The following equation was used to calculate the compound's QL:

$$QL_c = \frac{QL_1 + QL_2 + \dots + QL_n}{n}$$

where:

QL_c = Quantitation limit for a compound (ppbv)
QL₁ = Quantitation limit for the first ion pair (ppbv)
QL₂ = Quantitation limit for the second ion pair (ppbv)
QL_n = Quantitation limit for the nth ion pair (ppbv)
n = Number of ion pairs to be averaged

For example, using the entries for the 130/95, 132/95 and 132/97 ion pairs of trichloroethene from Table 4 for files MGR011 and MGR014, 11 December 2007 is:

$$QL_c = \frac{0.0859 + 0.131 + 0.0881}{3} = \frac{0.305}{3} = 0.102 \text{ ppbv}$$

This result, 0.102 ppbv, rounded to 0.10 ppbv is the QL for trichloroethene found in Table 4.

TABLES

TABLE 1
Summary of Transport Efficiencies Measured on 11 and 12 December 2007
Mills Gap Road TCE Site
Skyland, NC
January 2008

Transport Efficiency for 11 December 2007 10:20:58 File: MGR005				
Start Sequence:		298	640	
End Sequence:		399	788	
Compound	PM/DM	Proximal Intensity (icps)	Distal Intensity (icps)	Transport Efficiency (%)
Trichloroethene	130/95	25880.9	25013.1	96.6
Trichloroethene	132/95	7983.0	7863.6	98.5
Trichloroethene	132/97	16535.1	16065.3	97.2
Average Trichloroethene Transport Efficiency:				97.4
Tetrachloroethene	164/129	16416.3	16300.2	99.3
Tetrachloroethene	166/129	4676.2	4806.9	102.8
Tetrachloroethene	166/131	17098.2	16569.3	96.9
Average Tetrachloroethene Transport Efficiency:				99.7

Transport Efficiency for 11 December 2007 17:34:21 File: MGR015				
Start Sequence:		155	468	
End Sequence:		251	564	
Compound	PM/DM	Proximal Intensity (icps)	Distal Intensity (icps)	Transport Efficiency (%)
Trichloroethene	130/95	20861.3	20098.7	96.3
Trichloroethene	132/95	5291.5	5293.3	100.0
Trichloroethene	132/97	11354.8	11149.6	98.2
Average Trichloroethene Transport Efficiency:				98.2
Tetrachloroethene	164/129	9480.0	9761.1	103.0
Tetrachloroethene	166/129	2369.3	2512.7	106.0
Tetrachloroethene	166/131	11735.5	11626.3	99.1
Average Tetrachloroethene Transport Efficiency:				102.7

PM/DM = Parent Mass/Daughter Mass
icps = ion counts per second
% = Percent

TABLE 1 (continued)
Summary of Transport Efficiencies Measured on 11 and 12 December 2007
Mills Gap Road TCE Site
Skyland, NC
January 2008

Transport Efficiency for 12 December 2007 09:38:51 File: MGR017				
Start Sequence:		194	567	
End Sequence:		292	668	
Compound	PM/DM	Proximal Intensity (icps)	Distal Intensity (icps)	Transport Efficiency (%)
Trichloroethene	130/95	24179.5	22936.7	94.9
Trichloroethene	132/95	5924.6	5810.3	98.1
Trichloroethene	132/97	12819.4	12305.1	96.0
Average Trichloroethene Transport Efficiency:				96.3
Tetrachloroethene	164/129	9453.0	9454.4	100.0
Tetrachloroethene	166/129	2189.0	2347.0	107.2
Tetrachloroethene	166/131	12215.0	11803.0	96.6
Average Tetrachloroethene Transport Efficiency:				101.3

Transport Efficiency for 12 December 2007 10:48:19 File: MGR019				
Start Sequence:		199	676	
End Sequence:		394	780	
Compound	PM/DM	Proximal Intensity (icps)	Distal Intensity (icps)	Transport Efficiency (%)
Trichloroethene	130/95	22764.7	21638.4	95.0
Trichloroethene	132/95	5188.3	5194.7	100.1
Trichloroethene	132/97	11626.2	11465.4	98.6
Average Trichloroethene Transport Efficiency:				97.9
Tetrachloroethene	164/129	8033.5	8542.6	106.3
Tetrachloroethene	166/129	1633.1	1915.8	117.3
Tetrachloroethene	166/131	10753.5	10971.0	102.0
Average Tetrachloroethene Transport Efficiency:				108.6

PM/DM = Parent Mass/Daughter Mass
icps = ion counts per second
% = Percent

TABLE 2
Summary of Meteorological Conditions during Monitoring, 10 through 12 December 2007
Mills Gap Road TCE Site
Skyland, NC
January 2008

Date	File	Ws Average	Wd Average	Precipitation
12/10/2007	MGR002	1.0	302	0
12/11/2007	MGR007	2.5	142	0
12/11/2007	MGR010	2.9	119	0
12/11/2007	MGR012	1.7	110	0
12/11/2007	MGR013	2.4	89	0
12/12/2007	MGR018	1.3	239	0
12/12/2007	MGR021	6.2	310	0

The wind direction is the direction from which the wind is blowing.

Ws = Wind speed in miles per hour

Wd = Wind direction in degrees

TABLE 3
Response Factors and Error Bars Summary for 10 and 11 December 2007
Mills Gap Road TCE Site
Skyland, NC
January 2008

Calibration Files: MGR001 and MGR003 on 10 December 2007 Used for Survey File: MGR002					
Compound	PM/DM	Initial Response Factor (icps/ppbv)	Final Response Factor (icps/ppbv)	Intermediate Response Factor (icps/ppbv)	Error Bar (%)
Trichloroethene	130/95	2438.5	3080.3	2722.1	11.6
Trichloroethene	132/95	771.94	970.46	859.89	11.4
Trichloroethene	132/97	1575.3	1962.8	1747.8	11.0
Average:					11
Tetrachloroethene	164/129	1826.2	2238.6	2011.5	10.1
Tetrachloroethene	166/129	528.12	646.16	581.21	10.1
Tetrachloroethene	166/131	1704.6	2096.8	1880.4	10.3
Average:					10
Calibration Files: MGR004 and MGR008 on 11 December 2007 Used for Survey File: MGR007					
Compound	PM/DM	Initial Response Factor (icps/ppbv)	Final Response Factor (icps/ppbv)	Intermediate Response Factor (icps/ppbv)	Error Bar (%)
Trichloroethene	130/95	3748.4	3112.8	3401.2	9.26
Trichloroethene	132/95	1222.7	969.73	1081.6	11.5
Trichloroethene	132/97	2494.8	1927.6	2174.8	12.8
Average:					11
Tetrachloroethene	164/129	2816.8	2138.9	2431.5	13.7
Tetrachloroethene	166/129	838.36	645.27	729.25	13.0
Tetrachloroethene	166/131	2788.9	2216.4	2469.9	11.4
Average:					13

PM/DM = Parent Mass/Daughter Mass
icps = ion counts per second
ppbv = parts per billion by volume
% = Percent

TABLE 3 (continued)
Response Factors and Error Bars Summary for 10 and 11 December 2007
Mills Gap Road TCE Site
Skyland, NC
January 2008

Calibration Files: MGR011 and MGR014 on 11 December 2007 Used for Survey Files: MGR012 and MGR013					
Compound	PM/DM	Initial Response Factor (icps/ppbv)	Final Response Factor (icps/ppbv)	Intermediate Response Factor (icps/ppbv)	Error Bar (%)
Trichloroethene	130/95	2909.0	2841.2	2874.7	1.18
Trichloroethene	132/95	863.79	834.17	848.72	1.74
Trichloroethene	132/97	1749.1	1679.6	1713.6	2.03
Average:					1.6
Tetrachloroethene	164/129	1931.3	1830.6	1879.6	2.68
Tetrachloroethene	166/129	559.27	528.48	543.44	2.83
Tetrachloroethene	166/131	2009.4	1936.0	1972.0	1.86
Average:					2.5

PM/DM = Parent Mass/Daughter Mass
icps = ion counts per second
ppbv = parts per billion by volume
% = Percent

TABLE 4
Summary of Detection and Quantitation Limit Data for 10 through 12 December 2007
Mills Gap Road TCE Site
Skyland, NC
January 2008

Calibration Files: MGR001 and MGR003 on 10 December 2007 Used for Survey File: MGR002					
Compound	PM/DM	Intermediate Response Factor (icps/ppbv)	Standard Deviation (icps)	Detection Limit (ppbv)	Quantitation Limit (ppbv)
Trichloroethene	130/95	2722.1	22.261	0.0245	0.0818
Trichloroethene	132/95	859.89	12.238	0.0427	0.142
Trichloroethene	132/97	1747.8	14.741	0.0253	0.0843
Average:				0.031	0.10
Tetrachloroethene	164/129	2011.5	18.018	0.0269	0.0896
Tetrachloroethene	166/129	581.21	11.986	0.0619	0.206
Tetrachloroethene	166/131	1880.4	17.271	0.0276	0.0918
Average:				0.039	0.13
Calibration Files: MGR004 and MGR008 on 11 December 2007 Used for Survey File: MGR007					
Compound	PM/DM	Intermediate Response Factor (icps/ppbv)	Standard Deviation (icps)	Detection Limit (ppbv)	Quantitation Limit (ppbv)
Trichloroethene	130/95	3401.2	39.225	0.0346	0.115
Trichloroethene	132/95	1081.6	17.933	0.0497	0.166
Trichloroethene	132/97	2174.8	31.044	0.0428	0.143
Average:				0.042	0.14
Tetrachloroethene	164/129	2431.5	20.166	0.0249	0.0829
Tetrachloroethene	166/129	729.25	10.600	0.0436	0.145
Tetrachloroethene	166/131	2469.9	29.787	0.0362	0.121
Average:				0.035	0.12

PM/DM = Parent Mass/Daughter Mass
icps = ion counts per second
ppbv = parts per billion by volume

TABLE 4 (continued)
Summary of Detection and Quantitation Limit Data for 10 through 12 December 2007
Mills Gap Road TCE Site
Skyland, NC
January 2008

Calibration File: MGR009 at 14:31:19 on 11 December 2007 Used for Survey File: MGR010					
Compound	PM/DM	Response Factor (icps/ppbv)	Standard Deviation (icps)	Detection Limit (ppbv)	Quantitation Limit (ppbv)
Trichloroethene	130/95	2922.1	32.088	0.0329	0.110
Trichloroethene	132/95	871.78	11.155	0.0384	0.128
Trichloroethene	132/97	1775.9	15.028	0.0254	0.0846
Average:				0.032	0.11
Tetrachloroethene	164/129	1983.0	7.7172	0.0117	0.0389
Tetrachloroethene	166/129	576.04	3.0484	0.0159	0.0529
Tetrachloroethene	166/131	2046.0	11.063	0.0162	0.0541
Average:				0.015	0.049
Calibration Files: MGR011 and MGR014 on 11 December 2007 Used for Survey Files: MGR012 and MGR013					
Compound	PM/DM	Intermediate Response Factor (icps/ppbv)	Standard Deviation (icps)	Detection Limit (ppbv)	Quantitation Limit (ppbv)
Trichloroethene	130/95	2874.7	24.693	0.0258	0.0859
Trichloroethene	132/95	848.72	11.136	0.0394	0.131
Trichloroethene	132/97	1713.6	15.096	0.0264	0.0881
Average:				0.031	0.10
Tetrachloroethene	164/129	1879.6	12.313	0.0197	0.0655
Tetrachloroethene	166/129	543.44	5.2745	0.0291	0.0971
Tetrachloroethene	166/131	1972.0	11.814	0.0180	0.0599
Average:				0.022	0.074

PM/DM = Parent Mass/Daughter Mass
icps = ion counts per second
ppbv = parts per billion by volume

TABLE 4 (continued)
Summary of Detection and Quantitation Limit Data for 10 through 12 December 2007
Mills Gap Road TCE Site
Skyland, NC
January 2008

Calibration File: MGR016 at 09:10:44 on 12 December 2007 Used for Survey File: MGR018					
Compound	PM/DM	Response Factor (icps/ppbv)	Standard Deviation (icps)	Detection Limit (ppbv)	Quantitation Limit (ppbv)
Trichloroethene	130/95	3232.6	39.388	0.0366	0.122
Trichloroethene	132/95	958.86	20.873	0.0653	0.218
Trichloroethene	132/97	1953.8	25.121	0.0386	0.129
Average:				0.047	0.16
Tetrachloroethene	164/129	2036.7	13.365	0.0197	0.0656
Tetrachloroethene	166/129	575.04	5.8812	0.0307	0.102
Tetrachloroethene	166/131	2147.0	17.134	0.0239	0.0798
Average:				0.025	0.083
Calibration File: MGR020 at 11:28:19 on 12 December 2007 Used for Survey File: MGR021					
Compound	PM/DM	Response Factor (icps/ppbv)	Standard Deviation (icps)	Detection Limit (ppbv)	Quantitation Limit (ppbv)
Trichloroethene	130/95	2838.6	27.067	0.0286	0.0954
Trichloroethene	132/95	800.83	9.1612	0.0343	0.114
Trichloroethene	132/97	1679.0	15.533	0.0278	0.0925
Average:				0.030	0.10
Tetrachloroethene	164/129	1689.7	7.5022	0.0133	0.0444
Tetrachloroethene	166/129	448.95	3.0484	0.0204	0.0679
Tetrachloroethene	166/131	1845.6	7.0566	0.0115	0.0382
Average:				0.015	0.050

PM/DM = Parent Mass/Daughter Mass
icps = ion counts per second
ppbv = parts per billion by volume

FIGURES

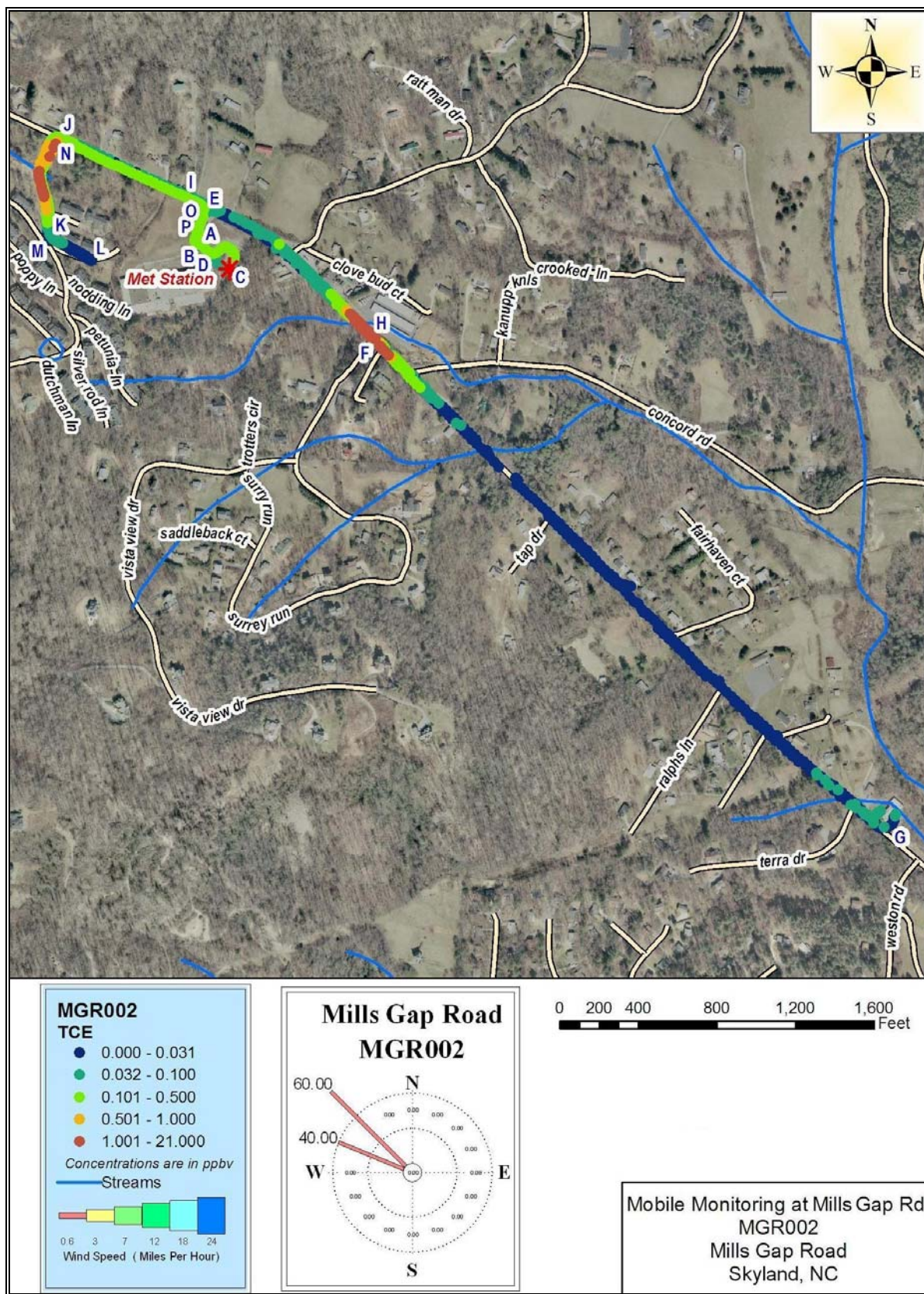


Figure 1a Mobile Monitoring Path at Mills Gap Road, MGR002

Figure 1b

TAGA File Event Summary File: MGR002 Acquired on 10 December 2007 at 17:25:40 Title: Mobile Monitoring at Mills Gap Road			
Flag	Offset Time	Offset Sequence	Description
A	1.6	160	Start monitoring in the parking lot
B	2.0	199	Turning right in the parking lot
C	2.8	277	Executing U-turn at the met station
D	3.5	344	Turning right toward main gate
E	4.6	451	Turning right onto Mills Gap Road
F	5.9	580	Passing Hidden Valley entrance at Surrey Run
G	7.9	772	Turning around at gas station at Terra Drive
H	10.6	1041	Passing Hidden Valley entrance at Surrey Run
I	11.7	1142	Passing the site
J	12.0	1176	Turning left onto South Side Village Drive
K	13.5	1324	Turning left onto Jasmine Lane
L	14.5	1417	Moving backwards at the end of Jasmine Lane
M	20.3	1980	Turning onto South Side Village Drive
N	23.9	2337	Turning right onto Mills Gap Road
O	24.6	2400	Turning right into the site
P	25.5	2497	Stopping mobile monitoring in the parking lot

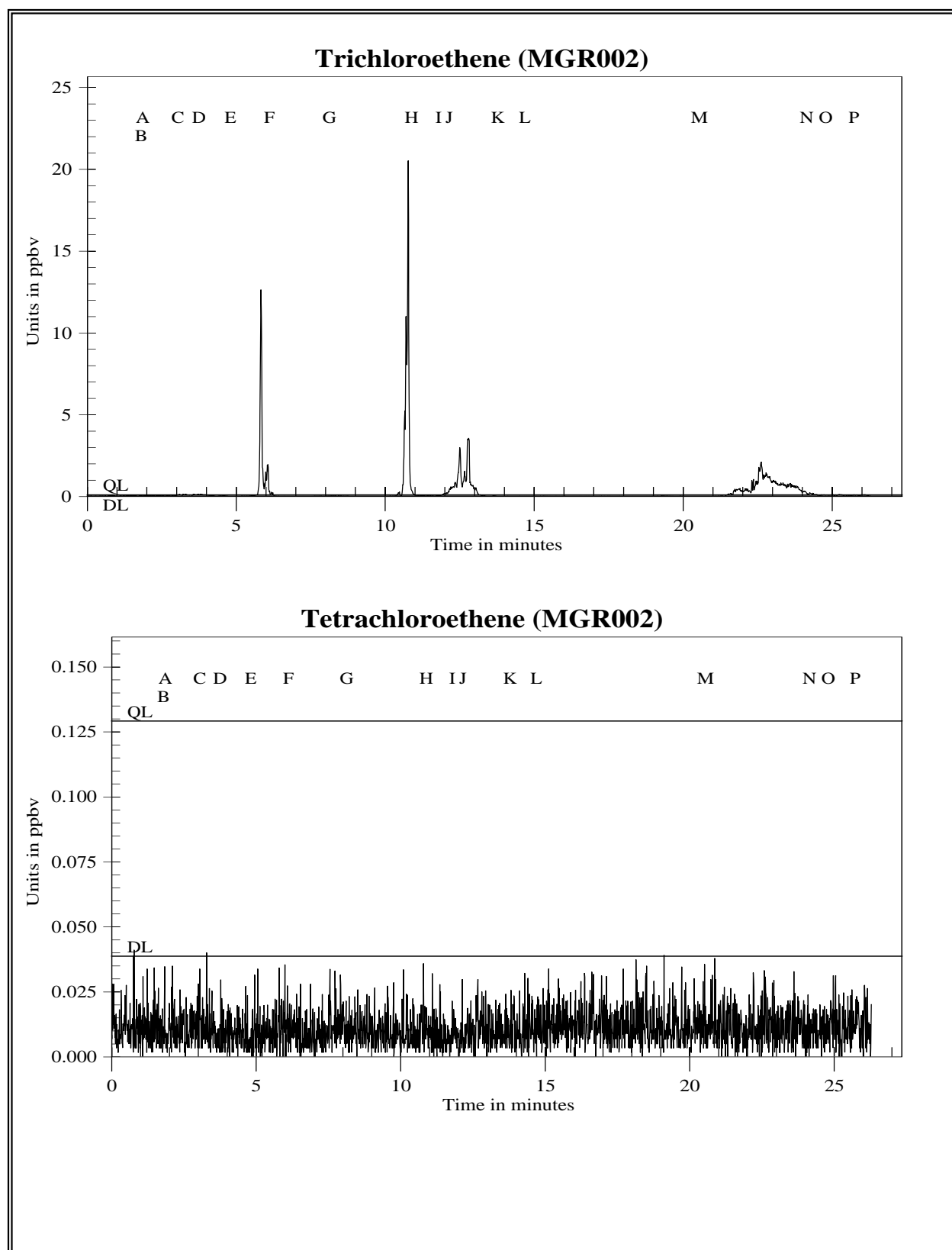


Figure 1c Mobile Monitoring at Mills Gap Road for Trichloroethene and Tetrachloroethene



Figure 2a Outdoor Air Survey at Mills Gap Road, MGR007

Figure 2b

TAGA File Event Summary File: MGR007 Acquired on 11 December 2007 at 11:51:51 Title: Outdoor Air Survey			
Flag	Offset Time	Offset Sequence	Description
B	3.6	354	Start of the pre-run ambient
C	4.7	458	End of the pre-run ambient
D	6.8	668	Crossing Seep A fenceline
E	7.8	761	Start of Seep A
F	9.4	919	End of Seep A
G	11.8	1157	Start of the post-run ambient
H	12.8	1254	End of the post-run ambient
I	13.3	1304	Start of the 30 mL/min spike
J	14.8	1450	End of the 30 mL/min spike

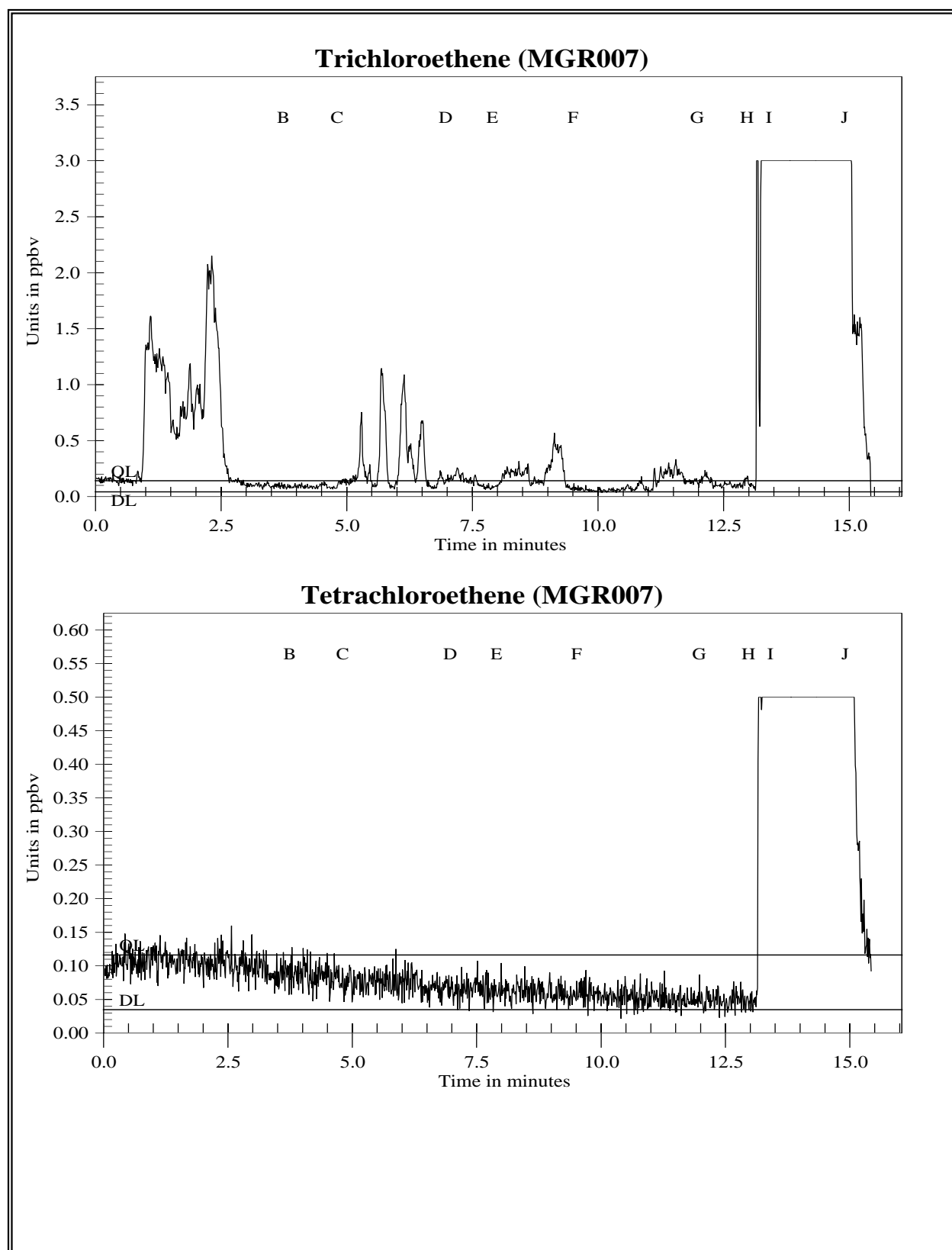


Figure 2c Outdoor Air Survey for Trichloroethene and Tetrachloroethene

Figure 2d

TAGA Target Compound Summary File: MGR007 Acquired on 11 December 2007 at 11:51:51			
		Trichloroethene	Tetrachloroethene
Detection Limits - DL:		0.042	0.035
Quantitation Limits - QL:		0.14	0.12
Flags	Description	Trichloroethene	Tetrachloroethene
B - C	Pre-run ambient	0.092J	0.087J
E - F	Seep A	0.20	0.061J
G - H	Post-run ambient	0.12J	0.049J
I - J	30 mL/min spike	6.2	5.1

Concentrations are given in parts per billion by volume

J = Concentration detected below the quantitation limit

Figure 3a

TAGA File Event Summary File: MGR010 Acquired on 11 December 2007 at 14:58:07 Title: Crawl Space Monitoring in Unit 12			
Flag	Offset Time	Offset Sequence	Description
A	1.8	181	Start of the pre-entry ambient
B	2.8	274	End of the pre-entry ambient
C	7.1	694	Entering unit 12
D	7.3	712	Entering the basement
E	7.8	767	Start of the crawl space
F	9.1	888	End of the crawl space
G	9.6	940	Exiting the basement
H	9.8	961	Exiting the unit
I	11.0	1074	Start of the post-exit ambient
J	18.8	1842	End of the post-exit ambient
K	19.9	1946	Start of the 30 mL/min spike
L	21.3	2086	End of the 30 mL/min spike

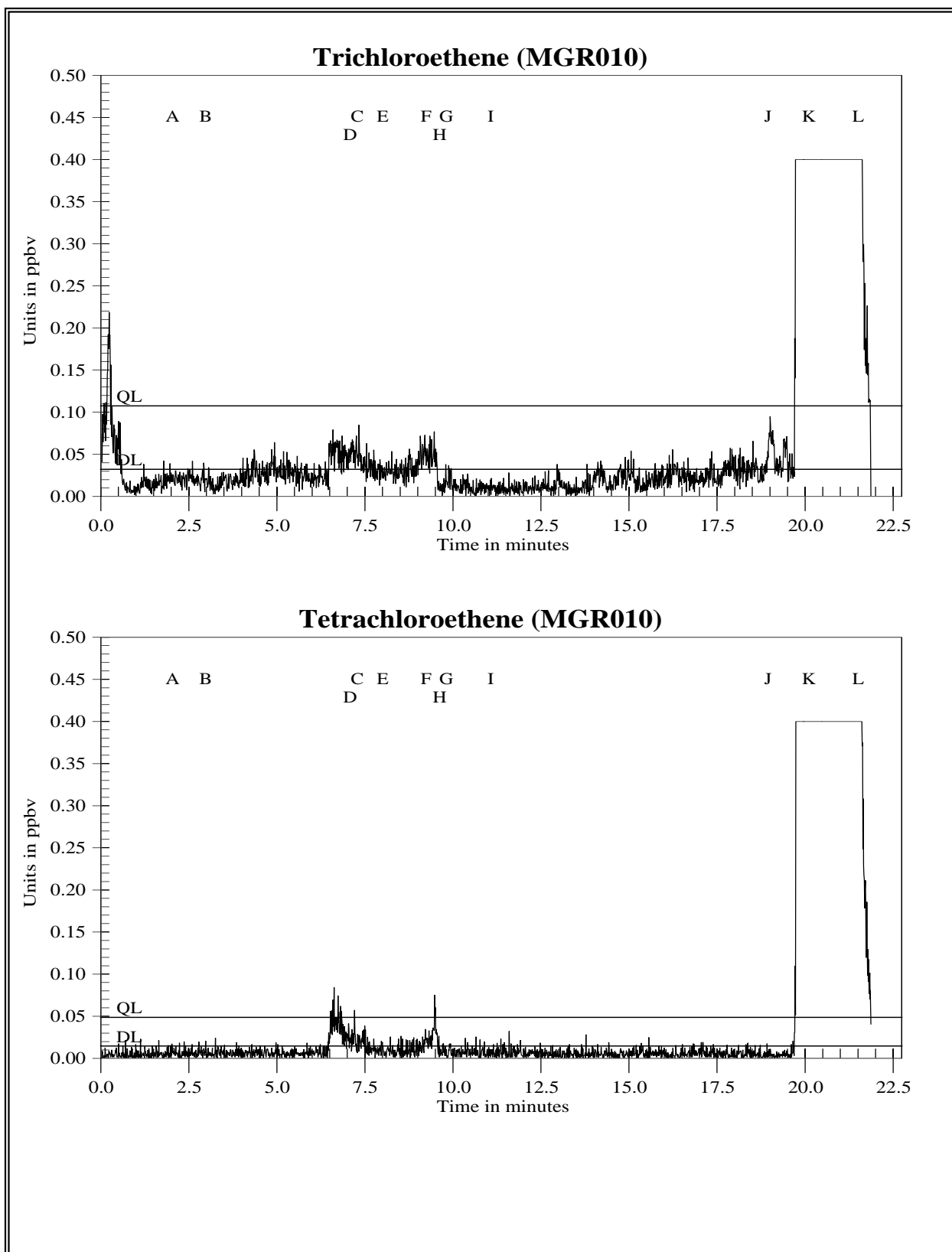


Figure 3b Crawspace Monitoring in Unit 12 for Trichloroethene and Tetrachloroethene

Figure 3c

TAGA Compound Survey Summary for Unit 12 File: MGR010 Acquired on 11 December 2007 at 14:58:07			
		Trichloroethene	Tetrachloroethene
Detection Limits - DL:		0.032	0.015
Quantitation Limits - QL:		0.11	0.049
Flags	Description	Trichloroethene	Tetrachloroethene
A - B	Pre-entry ambient	DL=0.032	DL=0.015
E - F	Crawlspace	DL=0.032	DL=0.015
I - J	Post-exit ambient	DL=0.032	DL=0.015
K - L	30 mL/min spike	6.4	5.3

Concentrations are given in parts per billion by volume

Figure 4a

TAGA File Event Summary File: MGR012 Acquired on 11 December 2007 at 16:16:28 Title: Crawl Space Monitoring in Unit 119			
Flag	Offset Time	Offset Sequence	Description
A	1.8	173	Start of the pre-run ambient
B	2.7	269	End of the pre-run ambient
C	4.3	417	Start of the crawlspace at unit 119
D	5.4	533	End of the crawlspace at unit 119
E	6.8	663	Start of the post-run ambient
F	8.0	787	End of the post-run ambient
G	10.3	1009	Start of the 30 mL/min spike
H	11.8	1155	End of the 30 mL/min spike

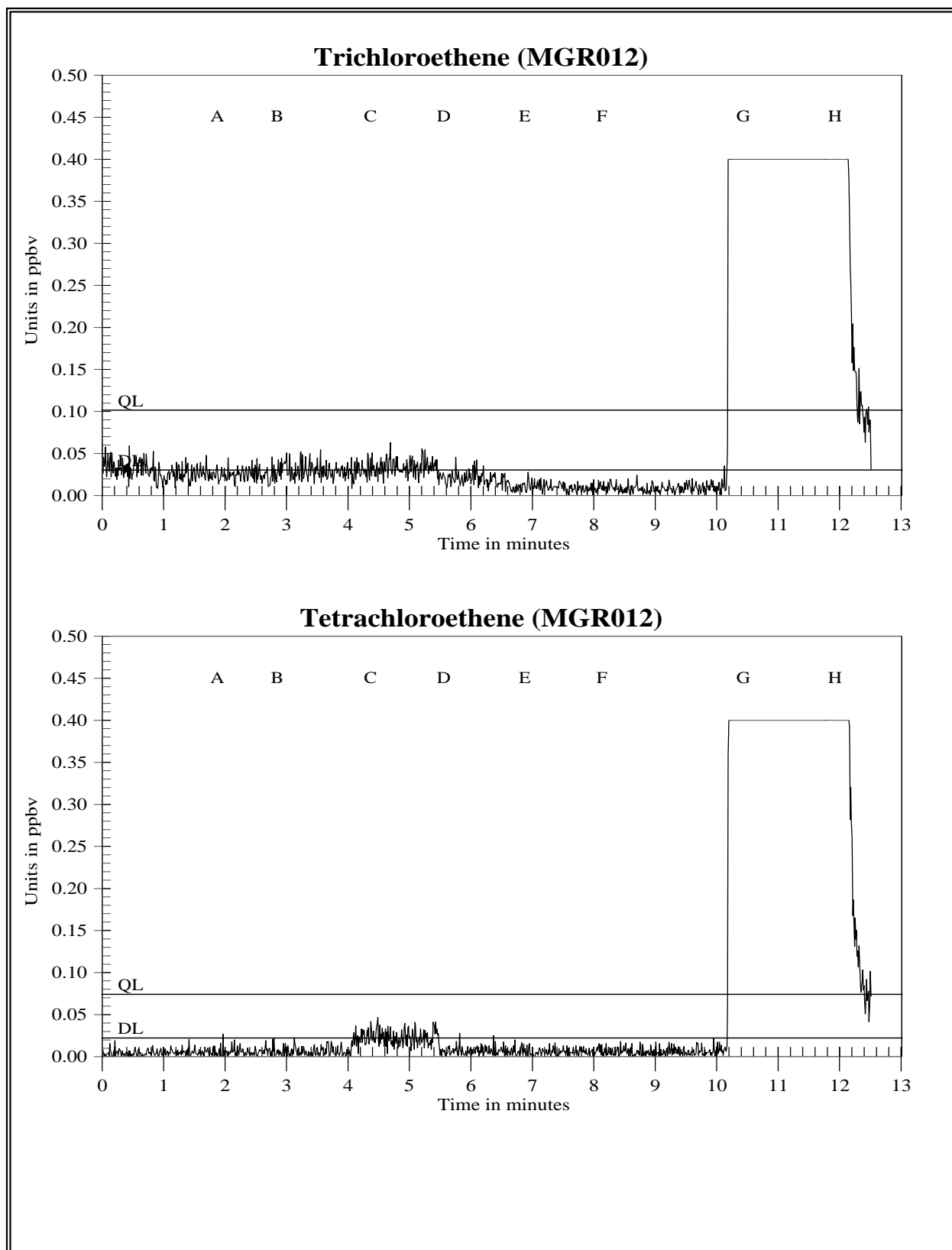


Figure 4b Crawlspace Monitoring in Unit 119 for Trichloroethene and Tetrachloroethene

Figure 4c

TAGA Compound Survey Summary for Unit 119 File: MGR012 Acquired on 11 December 2007 at 16:16:28			
		Trichloroethene	Tetrachloroethene
Detection Limits - DL:		0.031	0.022
Quantitation Limits - QL:		0.10	0.074
Flags	Description	Trichloroethene	Tetrachloroethene
A - B	Pre-run ambient	DL=0.031	DL=0.022
C - D	Crawlspace at unit 119	0.034J	0.023J
E - F	Post-run ambient	DL=0.031	DL=0.022
G - H	30 mL/min spike	6.5	5.3

Concentrations are given in parts per billion by volume

J = Concentration detected below the quantitation limit

Figure 5a

TAGA File Event Summary File: MGR013 Acquired on 11 December 2007 at 16:55:35 Title: Crawl Space Monitoring in Unit 113			
Flag	Offset Time	Offset Sequence	Description
A	1.8	176	Start of the pre-run ambient
B	2.8	276	End of the pre-run ambient
C	4.0	391	Entering unit 113
D	4.4	432	Entering the basement
E	5.4	533	Start of the crawlspace
F	6.5	634	End of the crawlspace
G	7.6	740	Exiting the basement
H	7.9	769	Exiting the unit
I	8.6	839	Start of the post-run ambient
J	10.2	1002	End of the post-run ambient
K	10.9	1067	Start of the 30 mL/min spike
L	12.4	1215	End of the 30 mL/min spike

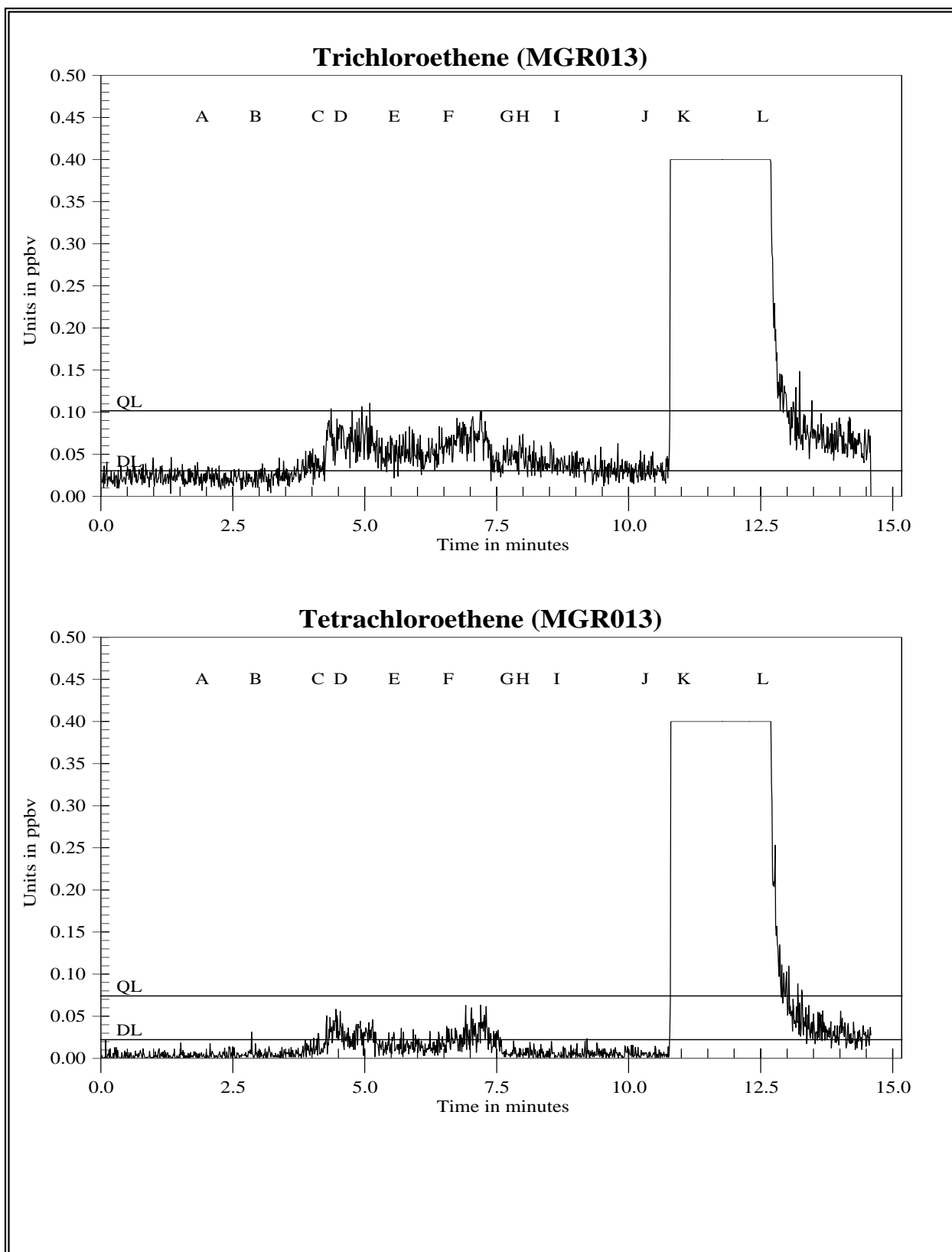


Figure 5b Crawlspace Monitoring in Unit 113 for Trichloroethene and Tetrachloroethene

Figure 5c

TAGA Compound Survey Summary for Unit 113 File: MGR013 Acquired on 11 December 2007 at 16:55:35			
		Trichloroethene	Tetrachloroethene
Detection Limits - DL:		0.031	0.022
Quantitation Limits - QL:		0.10	0.074
Flags	Description	Trichloroethene	Tetrachloroethene
A - B	Pre-run ambient	DL=0.031	DL=0.022
E - F	Crawlspace	0.052J	DL=0.022
I - J	Post-run ambient	0.033J	DL=0.022
K - L	30 mL/min spike	6.5	5.3

Concentrations are given in parts per billion by volume

J = Concentration detected below the quantitation limit

Figure 6a

TAGA File Event Summary File: MGR018 Acquired on 12 December 2007 at 10:14:00 Title: Crawl Space Monitoring in Unit 01			
Flag	Offset Time	Offset Sequence	Description
A	1.9	184	Start of the pre-entry ambient
B	2.9	283	End of the pre-entry ambient
C	4.4	435	Start of Unit 01 crawlspace
D	5.5	534	End of Unit 01 crawlspace
E	6.3	619	Start of the South side of the crawlspace
F	7.4	720	End of the South side of the crawlspace
G	8.9	874	Start of the post-exit ambient
H	10.4	1013	End of the post-exit ambient
I	11.5	1127	Start of the 30 mL/min spike
J	13.0	1273	End of the 30 mL/min spike

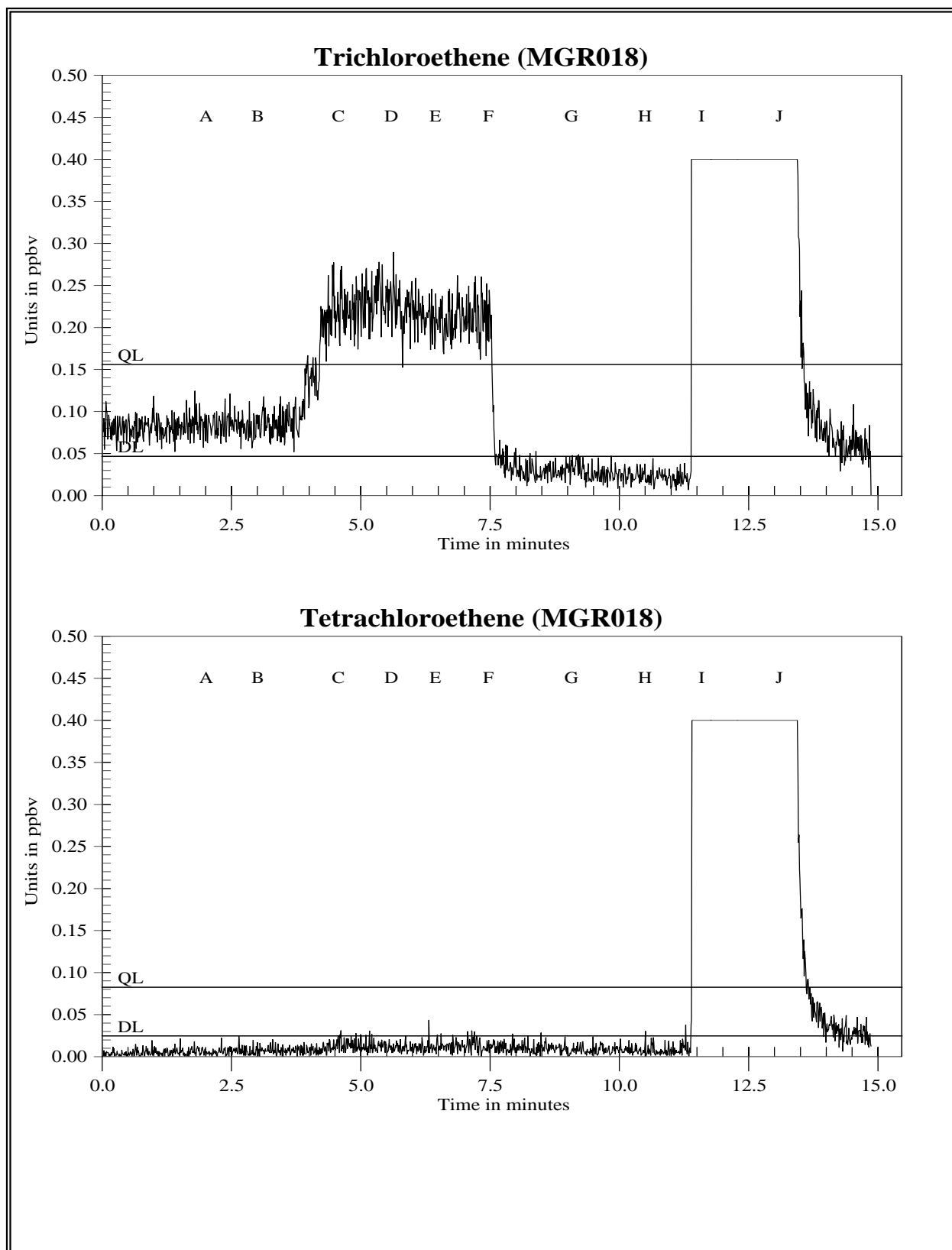


Figure 6b Crawlspace Monitoring in Unit 01 for Trichloroethene and Tetrachloroethene

Figure 6c

TAGA Compound Survey Summary for Unit 01 File: MGR018 Acquired on 12 December 2007 at 10:14:00			
		Trichloroethene	Tetrachloroethene
Detection Limits - DL:		0.047	0.025
Quantitation Limits - QL:		0.16	0.083
Flags	Description	Trichloroethene	Tetrachloroethene
A - B	Pre-entry ambient	0.084J	DL=0.025
C - D	Crawlspace	0.23	DL=0.025
E - F	South side of the crawlspace	0.21	DL=0.025
G - H	Post-exit ambient	DL=0.047	DL=0.025
I - J	30 mL/min spike	6.0	4.6

Concentrations are given in parts per billion by volume

J = Concentration detected below the quantitation limit

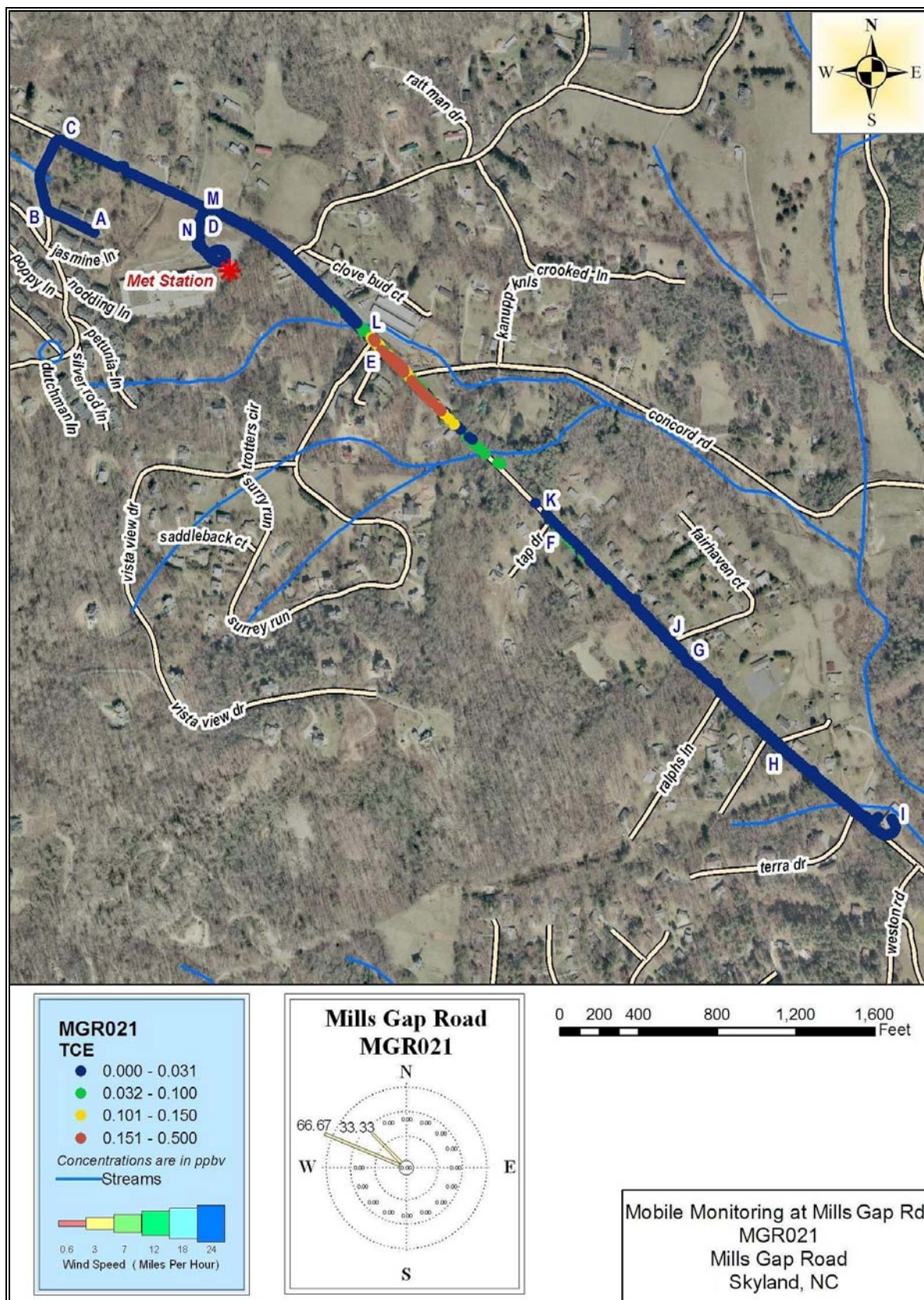


Figure 7a Mobile Monitoring at Mills Gap Road, MGR021

Figure 7b

TAGA File Event Summary File: MGR021 Acquired on 12 December 2007 at 12:11:54 Title: Mobile Monitoring at Mills Gap Road			
Flag	Time	Sequence	Description
A	2.2	215	Start of the monitoring on Silk Tree Lane moving west
B	3.1	308	Turning right onto Southside Village Drive
C	5.0	487	Turning right onto Mills Gap Road
D	5.9	575	Passing the site entrance
E	6.8	669	Passing Hidden Valley entrance at Surrey Run
F	7.9	775	Passing Tap Drive
G	8.5	834	Passing Fairhaven Court
H	8.9	870	Passing Paul Williams Lane
I	9.5	928	Turning around at Shell gas station
J	11.2	1099	Passing Fairhaven Court
K	11.9	1168	Passing Tap Drive
L	13.0	1275	Passing Hidden Valley entrance at Surrey Run
M	14.4	1409	Entering the site
N	16.2	1581	End monitoring in the parking lot

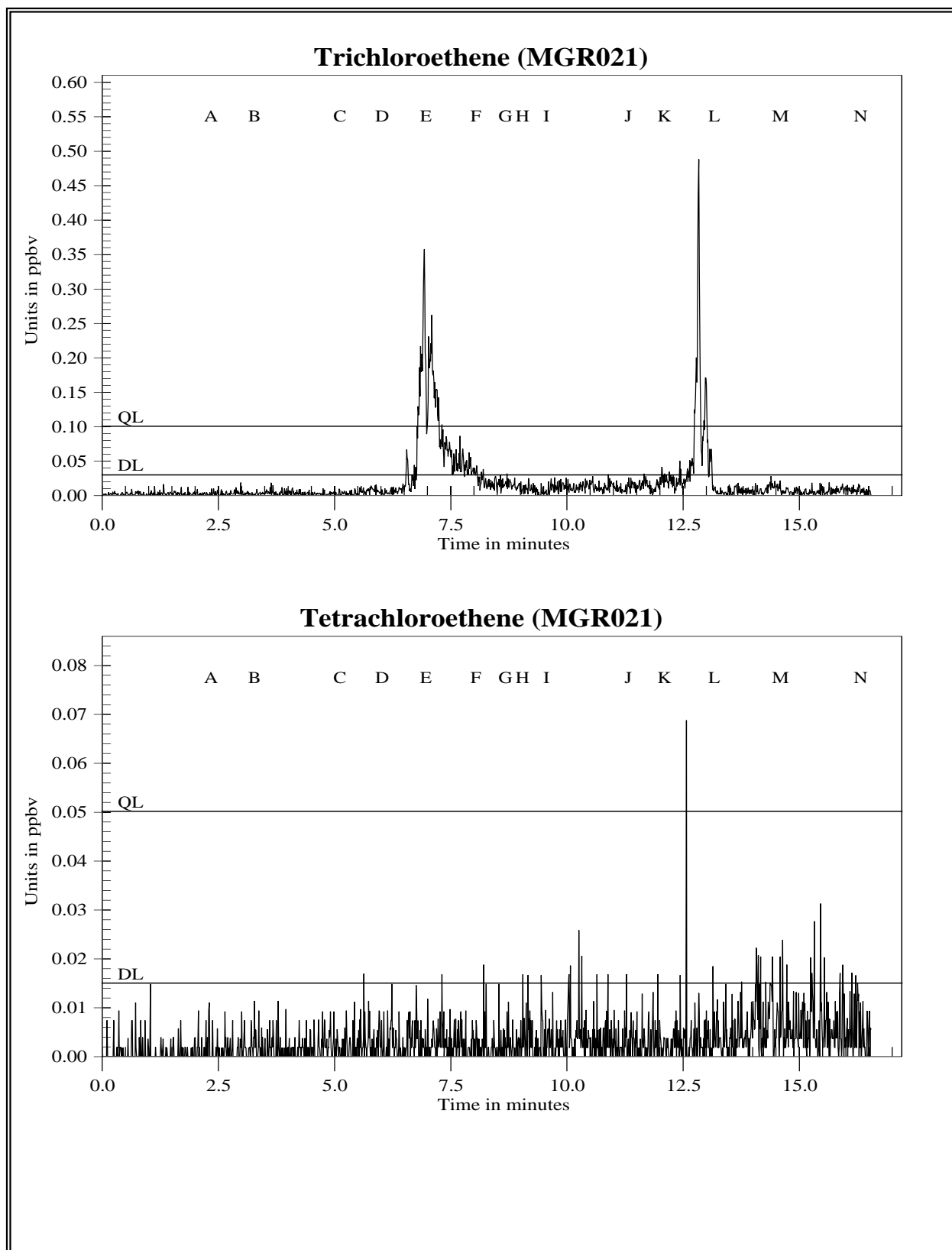


Figure 7c Mobile Monitoring at Mills Gap Road for Trichloroethene and Tetrachloroethene

APPENDIX A

Standard Gas Cylinder Certification

Mills Gap Road TCE Site

Final Analytical TAGA Report

January 2008



3434 Route 22 West, Branchburg, New Jersey 08876 USA
ISO 9001:2000

SHIPPED FROM: 80 INDUSTRIAL DRIVE ALPHA, NJ. 08865

SHIPPED TO: Lockheed Martin / REAC
GSA Raritan Depot, Bldg. 209
2890 Woodbridge Ave.
Edison, NJ 08837

**CERTIFICATE
OF
ANALYSIS**

SGI ORDER # :	117006	CYLINDER # :	CC-256091
ITEM# :	1	CYLINDER PRES:	1365 psig
CERTIFICATION DATE:	10/01/2007	CYLINDER VALVE:	CGA 350
P.O.# :	Verbal-Chuck	PRODUCT EXPIRATION DATE:	10/01/2008
BLEND TYPE:	CERTIFIED		

ANALYTICAL ACCURACY: +/- 2%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Vinyl Chloride	20.0 ppm	20.4 ppm
1,1-Dichloroethene	20.0 ppm	20.9 ppm
Benzene	20.0 ppm	20.5 ppm
Trichloroethylene	20.0 ppm	20.3 ppm
Toluene	20.0 ppm	20.3 ppm
Tetrachloroethylene	20.0 ppm	20.3 ppm
p-Xylene	10.0 ppm	10.1 ppm
m-Xylene	10.0 ppm	10.1 ppm
o-Xylene	10.0 ppm	10.1 ppm
Nitrogen	Balance	Balance

ANALYST: Lou Lorenzetti
Lou Lorenzetti

DATE: 10/01/2007

Tel: +1 908-252-9300 Fax: +1 908-252-0811
www.spectragases.com

APPENDIX B

Compiled Meteorological Data

Mills Gap Road TCE Site

Final Analytical TAGA Report

January 2008

Local Climatological Data-Hourly Observations Table**Mills Gap Road TCE Site, Skyland, NC**

Elevation: 2440 ft. above sea level

Latitude: 35° 29' 34.914" N

Longitude: 82° 30' 20.232" W

10 through 12 December 2007

Date	Time	Temp (F)	Relative Humd (%)	Wind Speed (mph)	Wind Dir (deg)	Station Press. (in Hg)	Total Precip. (in.)
12/10/2007	16:00	69	52	4.2	348	27.66	0
12/10/2007	16:05	69	53	3.7	329	27.67	0.01
12/10/2007	16:10	69	53	3.9	331	27.68	0
12/10/2007	16:15	69	53	3.6	329	27.67	0
12/10/2007	16:20	69	53	3.5	328	27.68	0
12/10/2007	16:25	68	53	2.9	305	27.68	0
12/10/2007	16:30	68	53	4.1	287	27.68	0
12/10/2007	16:35	68	52	3.5	269	27.67	0
12/10/2007	16:40	68	52	4.2	323	27.67	0
12/10/2007	16:45	68	53	3.5	310	27.67	0
12/10/2007	16:50	68	53	3.5	318	27.66	0
12/10/2007	16:55	68	53	3.0	330	27.67	0
12/10/2007	17:00	67	53	3.9	313	27.66	0
12/10/2007	17:05	67	53	2.4	323	27.66	0
12/10/2007	17:10	67	54	2.2	312	27.66	0
12/10/2007	17:15	66	55	1.4	333	27.66	0
12/10/2007	17:20	66	56	1.4	350	27.66	0
12/10/2007	17:25	65	58	1.2	308	27.66	0
12/10/2007	17:30	64	61	1.3	304	27.66	0
12/10/2007	17:35	62	64	1.1	312	27.66	0
12/10/2007	17:40	61	66	0.9	317	27.66	0
12/10/2007	17:45	60	69	0.8	293	27.66	0
12/10/2007	17:50	59	70	1.0	284	27.66	0
12/10/2007	17:55	59	71	0.9	326	27.66	0
12/10/2007	18:00	59	71	1.0	288	27.66	0
12/10/2007	18:05	59	72	0.7	326	27.66	0
12/10/2007	18:10	59	74	0.8	288	27.66	0
12/10/2007	18:15	59	74	0.7	324	27.66	0
12/10/2007	18:20	58	75	0.7	307	27.66	0
12/10/2007	18:25	58	75	0.7	289	27.66	0
12/10/2007	18:30	58	76	1.0	280	27.66	0
12/10/2007	18:35	58	77	0.7	297	27.66	0
12/10/2007	18:40	58	77	1.3	323	27.66	0
12/10/2007	18:45	58	77	0.9	309	27.66	0
12/10/2007	18:50	58	77	1.1	333	27.66	0
12/10/2007	18:55	58	78	1.5	337	27.66	0
12/10/2007	19:00	59	76	0.9	295	27.66	0
12/10/2007	19:05	58	78	0.8	325	27.66	0
12/10/2007	19:10	57	79	0.7	291	27.66	0
12/10/2007	19:15	57	80	0.6	273	27.66	0

Wind direction is the direction from which the wind is blowing.

Local Climatological Data-Hourly Observations Table (continued)**Mills Gap Road TCE Site, Skyland, NC**

Elevation: 2440 ft. above sea level

Latitude: 35° 29' 34.914" N

Longitude: 82° 30' 20.232" W

10 through 12 December 2007

Date	Time	Temp (F)	Relative Humd (%)	Wind Speed (mph)	Wind Dir (deg)	Station Press. (in Hg)	Total Precip. (in.)
12/10/2007	19:20	58	79	1.9	296	27.66	0
12/10/2007	19:25	58	80	1.7	311	27.66	0
12/10/2007	19:30	57	80	0.9	316	27.66	0
12/10/2007	19:35	57	82	0.8	311	27.66	0
12/10/2007	19:40	57	82	1.9	299	27.66	0
12/10/2007	19:45	57	80	0.8	338	27.66	0
12/10/2007	19:50	57	81	1.9	297	27.66	0
12/10/2007	19:55	57	80	1.2	301	27.66	0
12/10/2007	20:00	57	80	1.3	319	27.66	0
12/10/2007	20:05	57	80	0.9	331	27.66	0
12/10/2007	20:10	57	81	1.2	296	27.66	0
12/10/2007	20:15	56	81	0.7	302	27.66	0
12/10/2007	20:20	56	82	0.9	314	27.66	0
12/10/2007	20:25	56	83	0.6	7	27.66	0
12/10/2007	20:30	55	83	0.6	17	27.66	0
12/10/2007	20:35	55	83	0.7	48	27.66	0
12/10/2007	20:40	55	84	0.6	139	27.66	0
12/10/2007	20:45	55	85	0.6	77	27.66	0
12/10/2007	20:50	55	84	0.6	340	27.66	0
12/10/2007	20:55	54	84	0.6	327	27.66	0
12/10/2007	21:00	54	85	0.6	8	27.66	0
12/10/2007	21:05	54	85	0.6	24	27.66	0
12/10/2007	21:10	54	86	0.7	128	27.66	0
12/10/2007	21:15	55	86	0.6	104	27.66	0
12/10/2007	21:20	54	85	0.6	337	27.66	0
12/10/2007	21:25	54	85	0.6	328	27.66	0
12/10/2007	21:30	54	86	0.7	240	27.66	0
12/10/2007	21:35	54	85	0.6	243	27.66	0
12/10/2007	21:40	54	86	0.6	191	27.66	0
12/10/2007	21:45	54	85	0.9	122	27.66	0
12/10/2007	21:50	53	85	1.1	125	27.66	0
12/10/2007	21:55	52	85	0.6	127	27.66	0
12/10/2007	22:00	52	87	0.6	75	27.66	0
12/10/2007	22:05	52	87	0.6	75	27.66	0
12/10/2007	22:10	52	89	0.6	96	27.66	0
12/10/2007	22:15	52	89	0.6	212	27.66	0
12/10/2007	22:20	52	88	0.6	174	27.66	0
12/10/2007	22:25	52	88	0.6	177	27.66	0
12/10/2007	22:30	52	89	0.6	267	27.66	0
12/10/2007	22:35	53	89	0.6	230	27.66	0

Wind direction is the direction from which the wind is blowing.

Local Climatological Data-Hourly Observations Table (continued)**Mills Gap Road TCE Site, Skyland, NC**

Elevation: 2440 ft. above sea level

Latitude: 35° 29' 34.914" N

Longitude: 82° 30' 20.232" W

10 through 12 December 2007

Date	Time	Temp (F)	Relative Humd (%)	Wind Speed (mph)	Wind Dir (deg)	Station Press. (in Hg)	Total Precip. (in.)
12/10/2007	22:40	53	89	0.6	199	27.66	0
12/10/2007	22:45	53	89	0.6	200	27.66	0
12/10/2007	22:50	53	89	0.6	266	27.66	0
12/10/2007	22:55	53	88	0.6	275	27.66	0
12/10/2007	23:00	53	88	0.6	310	27.66	0
12/10/2007	23:05	52	89	0.6	247	27.66	0
12/10/2007	23:10	53	89	0.6	220	27.66	0
12/10/2007	23:15	53	89	0.6	153	27.66	0
12/10/2007	23:20	52	88	0.6	131	27.66	0
12/10/2007	23:25	51	88	0.6	142	27.66	0
12/10/2007	23:30	51	89	0.7	140	27.66	0
12/10/2007	23:35	51	89	1.3	126	27.66	0
12/10/2007	23:40	51	89	0.6	120	27.66	0
12/10/2007	23:45	51	89	0.6	142	27.66	0
12/10/2007	23:50	51	90	0.6	158	27.66	0
12/10/2007	23:55	51	90	0.7	106	27.66	0
12/11/2007	0:00	51	90	0.6	127	27.66	0
12/11/2007	0:05	51	89	1.6	133	27.66	0
12/11/2007	0:10	50	89	0.7	144	27.66	0
12/11/2007	0:15	50	90	0.9	160	27.65	0
12/11/2007	0:20	50	90	0.6	165	27.65	0
12/11/2007	0:25	50	90	0.9	157	27.65	0
12/11/2007	0:30	50	90	1.6	146	27.64	0
12/11/2007	0:35	49	90	0.8	143	27.64	0
12/11/2007	0:40	50	91	0.6	144	27.64	0
12/11/2007	0:45	50	91	0.6	132	27.63	0
12/11/2007	0:50	50	91	0.6	127	27.63	0
12/11/2007	0:55	50	90	0.6	123	27.63	0
12/11/2007	1:00	50	90	0.6	125	27.63	0
12/11/2007	1:05	50	90	0.6	125	27.63	0
12/11/2007	1:10	49	90	0.9	128	27.63	0
12/11/2007	1:15	49	90	0.8	132	27.63	0
12/11/2007	1:20	48	90	0.6	121	27.63	0
12/11/2007	1:25	49	91	2.0	26	27.63	0
12/11/2007	1:30	50	91	0.7	69	27.63	0
12/11/2007	1:35	50	91	1.1	139	27.63	0
12/11/2007	1:40	50	91	0.8	150	27.63	0
12/11/2007	1:45	50	91	0.6	147	27.63	0
12/11/2007	1:50	50	91	0.7	137	27.63	0
12/11/2007	1:55	49	91	0.8	137	27.63	0

Wind direction is the direction from which the wind is blowing.

Local Climatological Data-Hourly Observations Table (continued)**Mills Gap Road TCE Site, Skyland, NC**

Elevation: 2440 ft. above sea level

Latitude: 35° 29' 34.914" N

Longitude: 82° 30' 20.232" W

10 through 12 December 2007

Date	Time	Temp (F)	Relative Humd (%)	Wind Speed (mph)	Wind Dir (deg)	Station Press. (in Hg)	Total Precip. (in.)
12/11/2007	2:00	49	91	0.6	135	27.63	0
12/11/2007	2:05	49	91	0.6	135	27.63	0
12/11/2007	2:10	49	91	0.6	131	27.63	0
12/11/2007	2:15	50	91	0.6	141	27.63	0
12/11/2007	2:20	50	91	0.7	126	27.63	0
12/11/2007	2:25	49	91	0.9	325	27.63	0
12/11/2007	2:30	49	91	0.6	247	27.63	0
12/11/2007	2:35	49	91	0.6	234	27.63	0
12/11/2007	2:40	49	91	0.6	211	27.63	0
12/11/2007	2:45	49	91	1.1	233	27.63	0
12/11/2007	2:50	49	90	1.1	289	27.63	0
12/11/2007	2:55	48	90	0.7	233	27.63	0
12/11/2007	3:00	48	91	0.9	217	27.63	0
12/11/2007	3:05	49	91	0.6	210	27.63	0
12/11/2007	3:10	49	91	0.7	158	27.63	0
12/11/2007	3:15	48	91	1.2	131	27.64	0
12/11/2007	3:20	48	91	0.8	132	27.63	0
12/11/2007	3:25	48	91	0.6	124	27.63	0
12/11/2007	3:30	48	91	0.7	149	27.64	0
12/11/2007	3:35	48	91	0.6	140	27.64	0
12/11/2007	3:40	48	91	0.6	127	27.63	0
12/11/2007	3:45	48	91	0.6	130	27.63	0
12/11/2007	3:50	49	91	0.6	138	27.63	0
12/11/2007	3:55	49	91	0.6	138	27.63	0
12/11/2007	4:00	49	91	0.8	137	27.63	0
12/11/2007	4:05	49	91	0.9	118	27.63	0
12/11/2007	4:10	49	91	1.0	146	27.63	0
12/11/2007	4:15	48	91	0.9	129	27.63	0
12/11/2007	4:20	47	91	0.6	125	27.63	0
12/11/2007	4:25	48	91	0.6	195	27.63	0
12/11/2007	4:30	49	92	0.6	152	27.63	0
12/11/2007	4:35	49	91	0.8	129	27.63	0
12/11/2007	4:40	48	91	0.6	129	27.63	0
12/11/2007	4:45	48	91	1.3	255	27.63	0
12/11/2007	4:50	47	91	1.2	286	27.63	0
12/11/2007	4:55	47	91	0.8	248	27.63	0
12/11/2007	5:00	47	91	0.6	246	27.63	0
12/11/2007	5:05	47	91	0.6	237	27.63	0
12/11/2007	5:10	47	91	0.6	215	27.63	0
12/11/2007	5:15	47	91	1.0	289	27.63	0

Wind direction is the direction from which the wind is blowing.

Local Climatological Data-Hourly Observations Table (continued)**Mills Gap Road TCE Site, Skyland, NC**

Elevation: 2440 ft. above sea level

Latitude: 35° 29' 34.914" N

Longitude: 82° 30' 20.232" W

10 through 12 December 2007

Date	Time	Temp (F)	Relative Humd (%)	Wind Speed (mph)	Wind Dir (deg)	Station Press. (in Hg)	Total Precip. (in.)
12/11/2007	5:20	48	91	0.6	153	27.63	0
12/11/2007	5:25	48	91	0.6	131	27.63	0
12/11/2007	5:30	48	91	0.6	122	27.63	0
12/11/2007	5:35	48	91	0.6	179	27.63	0
12/11/2007	5:40	47	91	0.6	180	27.63	0
12/11/2007	5:45	47	91	0.6	121	27.63	0
12/11/2007	5:50	47	91	0.7	294	27.64	0
12/11/2007	5:55	47	91	0.6	182	27.64	0
12/11/2007	6:00	47	91	0.6	158	27.64	0
12/11/2007	6:05	47	91	0.6	159	27.64	0
12/11/2007	6:10	47	91	0.6	151	27.64	0
12/11/2007	6:15	47	91	0.6	82	27.64	0
12/11/2007	6:20	47	91	0.6	175	27.64	0
12/11/2007	6:25	47	91	0.8	278	27.65	0
12/11/2007	6:30	47	91	0.6	249	27.65	0
12/11/2007	6:35	47	91	0.6	216	27.65	0
12/11/2007	6:40	47	91	0.6	197	27.65	0
12/11/2007	6:45	47	91	0.6	129	27.65	0
12/11/2007	6:50	46	91	0.9	135	27.65	0
12/11/2007	6:55	46	91	1.0	148	27.65	0
12/11/2007	7:00	46	91	0.6	140	27.65	0
12/11/2007	7:05	46	91	0.8	139	27.65	0
12/11/2007	7:10	46	91	1.0	135	27.65	0
12/11/2007	7:15	46	91	0.6	129	27.65	0
12/11/2007	7:20	46	91	0.6	130	27.65	0
12/11/2007	7:25	46	91	0.6	130	27.65	0
12/11/2007	7:30	46	91	0.6	131	27.65	0
12/11/2007	7:35	46	91	0.6	135	27.65	0
12/11/2007	7:40	47	91	0.6	139	27.65	0
12/11/2007	7:45	47	91	0.6	137	27.65	0
12/11/2007	7:50	47	91	1.0	133	27.65	0
12/11/2007	7:55	47	91	0.7	130	27.65	0
12/11/2007	8:00	46	91	0.6	158	27.65	0
12/11/2007	8:05	47	91	0.6	295	27.66	0
12/11/2007	8:10	47	92	0.8	169	27.66	0
12/11/2007	8:15	47	91	0.6	127	27.66	0
12/11/2007	8:20	47	91	0.6	71	27.66	0
12/11/2007	8:25	47	92	0.6	140	27.66	0
12/11/2007	8:30	47	91	0.6	140	27.66	0
12/11/2007	8:35	47	91	0.6	135	27.66	0

Wind direction is the direction from which the wind is blowing.

Local Climatological Data-Hourly Observations Table (continued)**Mills Gap Road TCE Site, Skyland, NC**

Elevation: 2440 ft. above sea level

Latitude: 35° 29' 34.914" N

Longitude: 82° 30' 20.232" W

10 through 12 December 2007

Date	Time	Temp (F)	Relative Humd (%)	Wind Speed (mph)	Wind Dir (deg)	Station Press. (in Hg)	Total Precip. (in.)
12/11/2007	8:40	47	91	0.6	135	27.66	0
12/11/2007	8:45	48	92	0.6	135	27.66	0
12/11/2007	8:50	48	92	0.6	136	27.66	0
12/11/2007	8:55	48	92	0.6	136	27.66	0
12/11/2007	9:00	49	92	0.6	253	27.66	0
12/11/2007	9:05	49	92	2.7	308	27.66	0
12/11/2007	9:10	49	92	2.5	306	27.66	0
12/11/2007	9:15	50	92	2.2	309	27.66	0
12/11/2007	9:20	50	92	2.4	331	27.66	0
12/11/2007	9:25	50	92	3.2	320	27.67	0
12/11/2007	9:30	51	92	3.6	319	27.67	0
12/11/2007	9:35	51	92	3.0	312	27.67	0
12/11/2007	9:40	51	92	2.4	313	27.68	0
12/11/2007	9:45	51	92	1.7	247	27.68	0
12/11/2007	9:50	51	91	0.6	103	27.68	0
12/11/2007	9:55	52	91	0.6	110	27.68	0
12/11/2007	10:00	52	91	0.6	143	27.68	0
12/11/2007	10:05	53	92	0.7	124	27.68	0
12/11/2007	10:10	53	92	0.9	133	27.68	0
12/11/2007	10:15	54	92	0.7	166	27.68	0
12/11/2007	10:20	54	92	1.0	134	27.68	0
12/11/2007	10:25	55	92	0.9	126	27.68	0
12/11/2007	10:30	55	91	1.0	105	27.68	0
12/11/2007	10:35	56	91	0.9	110	27.68	0
12/11/2007	10:40	57	89	0.8	107	27.68	0
12/11/2007	10:45	58	84	1.2	118	27.68	0
12/11/2007	10:50	59	80	1.0	116	27.68	0
12/11/2007	10:55	60	75	1.1	116	27.68	0
12/11/2007	11:00	61	72	0.8	111	27.68	0
12/11/2007	11:05	61	71	0.9	114	27.68	0
12/11/2007	11:10	61	71	0.8	115	27.68	0
12/11/2007	11:15	62	70	1.3	106	27.68	0
12/11/2007	11:20	63	70	1.4	119	27.68	0
12/11/2007	11:25	63	68	1.3	108	27.67	0
12/11/2007	11:30	64	67	2.0	120	27.67	0
12/11/2007	11:35	64	67	1.3	114	27.67	0
12/11/2007	11:40	65	66	3.6	123	27.67	0
12/11/2007	11:45	65	65	2.7	125	27.67	0
12/11/2007	11:50	65	64	2.1	110	27.67	0
12/11/2007	11:55	65	65	2.1	134	27.67	0

Wind direction is the direction from which the wind is blowing.

Local Climatological Data-Hourly Observations Table (continued)**Mills Gap Road TCE Site, Skyland, NC**

Elevation: 2440 ft. above sea level

Latitude: 35° 29' 34.914" N

Longitude: 82° 30' 20.232" W

10 through 12 December 2007

Date	Time	Temp (F)	Relative Humd (%)	Wind Speed (mph)	Wind Dir (deg)	Station Press. (in Hg)	Total Precip. (in.)
12/11/2007	12:00	66	63	3.1	128	27.66	0
12/11/2007	12:05	66	62	2.2	162	27.66	0
12/11/2007	12:10	66	62	1.8	127	27.66	0
12/11/2007	12:15	66	62	1.3	101	27.66	0
12/11/2007	12:20	67	60	2.4	13	27.66	0
12/11/2007	12:25	67	59	2.7	12	27.66	0
12/11/2007	12:30	68	59	1.9	20	27.66	0
12/11/2007	12:35	68	57	2.4	70	27.66	0
12/11/2007	12:40	68	57	2.4	74	27.66	0
12/11/2007	12:45	69	54	2.9	12	27.66	0
12/11/2007	12:50	69	52	4.4	313	27.66	0
12/11/2007	12:55	69	53	2.8	58	27.66	0
12/11/2007	13:00	70	52	3.4	99	27.66	0
12/11/2007	13:05	70	52	3.0	106	27.66	0
12/11/2007	13:10	70	52	3.3	90	27.65	0
12/11/2007	13:15	70	51	1.9	98	27.65	0
12/11/2007	13:20	70	50	2.5	124	27.65	0
12/11/2007	13:25	71	50	1.6	97	27.65	0
12/11/2007	13:30	71	49	1.9	94	27.65	0
12/11/2007	13:35	71	48	2.3	123	27.65	0
12/11/2007	13:40	71	48	2.1	103	27.65	0
12/11/2007	13:45	71	47	1.9	93	27.64	0
12/11/2007	13:50	72	46	2.5	108	27.64	0
12/11/2007	13:55	72	46	2.5	120	27.64	0
12/11/2007	14:00	73	44	1.0	123	27.64	0
12/11/2007	14:05	73	43	2.6	97	27.64	0
12/11/2007	14:10	73	44	1.9	158	27.64	0
12/11/2007	14:15	73	43	2.7	91	27.64	0
12/11/2007	14:20	73	43	2.4	123	27.64	0
12/11/2007	14:25	73	43	2.5	113	27.65	0
12/11/2007	14:30	73	43	2.7	117	27.65	0
12/11/2007	14:35	73	43	2.4	111	27.65	0
12/11/2007	14:40	73	43	2.9	110	27.65	0
12/11/2007	14:45	73	43	3.0	115	27.65	0
12/11/2007	14:50	73	43	2.3	123	27.65	0
12/11/2007	14:55	73	42	2.8	138	27.65	0
12/11/2007	15:00	73	43	2.3	129	27.66	0
12/11/2007	15:05	73	43	4.2	121	27.66	0
12/11/2007	15:10	73	44	2.9	105	27.66	0
12/11/2007	15:15	73	44	2.7	123	27.66	0

Wind direction is the direction from which the wind is blowing.

Local Climatological Data-Hourly Observations Table (continued)**Mills Gap Road TCE Site, Skyland, NC**

Elevation: 2440 ft. above sea level

Latitude: 35° 29' 34.914" N

Longitude: 82° 30' 20.232" W

10 through 12 December 2007

Date	Time	Temp (F)	Relative Humd (%)	Wind Speed (mph)	Wind Dir (deg)	Station Press. (in Hg)	Total Precip. (in.)
12/11/2007	15:20	73	43	2.5	117	27.66	0
12/11/2007	15:25	73	43	2.7	117	27.66	0
12/11/2007	15:30	73	43	1.8	125	27.66	0
12/11/2007	15:35	73	42	2.1	133	27.66	0
12/11/2007	15:40	73	43	2.2	114	27.66	0
12/11/2007	15:45	73	44	3.4	101	27.66	0
12/11/2007	15:50	72	45	1.7	88	27.66	0
12/11/2007	15:55	71	48	2.4	110	27.66	0
12/11/2007	16:00	70	49	2.3	96	27.66	0
12/11/2007	16:05	69	51	2.3	88	27.66	0
12/11/2007	16:10	68	52	2.3	117	27.66	0
12/11/2007	16:15	68	52	2.6	109	27.66	0
12/11/2007	16:20	68	54	1.4	115	27.66	0
12/11/2007	16:25	67	55	2.1	123	27.66	0
12/11/2007	16:30	67	55	1.6	92	27.65	0
12/11/2007	16:35	67	55	2.2	90	27.65	0
12/11/2007	16:40	67	55	1.1	98	27.64	0
12/11/2007	16:45	67	55	2.2	84	27.64	0
12/11/2007	16:50	67	56	2.0	101	27.64	0
12/11/2007	16:55	67	56	2.6	85	27.63	0
12/11/2007	17:00	67	56	1.9	85	27.63	0
12/11/2007	17:05	66	57	2.1	102	27.63	0
12/11/2007	17:10	66	57	3.2	80	27.63	0
12/11/2007	17:15	66	57	2.5	87	27.63	0
12/11/2007	17:20	66	58	1.6	107	27.63	0
12/11/2007	17:25	66	58	3.1	101	27.62	0
12/11/2007	17:30	65	59	2.7	91	27.62	0
12/11/2007	17:35	65	59	3.1	89	27.62	0
12/11/2007	17:40	65	59	2.2	93	27.62	0
12/11/2007	17:45	65	59	2.4	103	27.62	0
12/11/2007	17:50	65	60	2.5	108	27.62	0
12/11/2007	17:55	65	60	2.1	98	27.62	0
12/11/2007	18:00	64	61	2.5	95	27.62	0
12/11/2007	18:05	65	60	4.6	91	27.62	0
12/11/2007	18:10	65	60	3.8	104	27.62	0
12/11/2007	18:15	64	61	2.7	98	27.62	0
12/11/2007	18:20	64	61	2.3	103	27.61	0
12/11/2007	18:25	64	62	1.5	85	27.61	0
12/11/2007	18:30	64	62	1.0	95	27.62	0
12/11/2007	18:35	63	64	1.9	33	27.62	0

Wind direction is the direction from which the wind is blowing.

Local Climatological Data-Hourly Observations Table (continued)**Mills Gap Road TCE Site, Skyland, NC**

Elevation: 2440 ft. above sea level

Latitude: 35° 29' 34.914" N

Longitude: 82° 30' 20.232" W

10 through 12 December 2007

Date	Time	Temp (F)	Relative Humd (%)	Wind Speed (mph)	Wind Dir (deg)	Station Press. (in Hg)	Total Precip. (in.)
12/11/2007	18:40	63	64	1.9	94	27.62	0
12/11/2007	18:45	63	64	1.7	101	27.62	0
12/11/2007	18:50	62	64	2.5	75	27.61	0
12/11/2007	18:55	62	64	1.7	101	27.61	0
12/11/2007	19:00	62	65	1.6	79	27.61	0
12/11/2007	19:05	62	65	1.8	106	27.61	0
12/11/2007	19:10	62	65	1.7	84	27.61	0
12/11/2007	19:15	61	66	1.1	157	27.61	0
12/11/2007	19:20	59	70	1.8	149	27.61	0
12/11/2007	19:25	58	73	1.7	140	27.61	0
12/11/2007	19:30	58	73	1.7	137	27.61	0
12/11/2007	19:35	58	73	1.2	142	27.60	0
12/11/2007	19:40	57	75	1.2	147	27.60	0
12/11/2007	19:45	56	76	1.6	134	27.60	0
12/11/2007	19:50	56	77	1.2	133	27.60	0
12/11/2007	19:55	56	78	1.2	136	27.60	0
12/11/2007	20:00	56	77	1.5	135	27.60	0
12/11/2007	20:05	56	78	1.4	153	27.60	0
12/11/2007	20:10	55	79	0.7	157	27.59	0
12/11/2007	20:15	55	80	1.0	149	27.59	0
12/11/2007	20:20	56	79	1.0	135	27.59	0
12/11/2007	20:25	56	79	1.6	174	27.59	0
12/11/2007	20:30	57	77	1.2	118	27.59	0
12/11/2007	20:35	56	77	1.1	146	27.59	0
12/11/2007	20:40	56	79	1.4	132	27.59	0
12/11/2007	20:45	56	79	1.2	139	27.59	0
12/11/2007	20:50	55	80	0.8	112	27.58	0
12/11/2007	20:55	55	80	1.5	104	27.58	0
12/11/2007	21:00	55	79	1.0	142	27.58	0
12/11/2007	21:05	56	80	1.2	116	27.58	0
12/11/2007	21:10	56	80	1.5	119	27.58	0
12/11/2007	21:15	56	79	1.2	127	27.58	0
12/11/2007	21:20	55	80	1.1	150	27.58	0
12/11/2007	21:25	55	83	1.6	104	27.57	0
12/11/2007	21:30	55	80	1.3	132	27.57	0
12/11/2007	21:35	55	80	1.5	109	27.57	0
12/11/2007	21:40	55	81	1.7	128	27.57	0
12/11/2007	21:45	55	81	1.8	155	27.57	0
12/11/2007	21:50	54	82	1.6	134	27.57	0
12/11/2007	21:55	54	83	1.0	119	27.57	0

Wind direction is the direction from which the wind is blowing.

Local Climatological Data-Hourly Observations Table (continued)**Mills Gap Road TCE Site, Skyland, NC**

Elevation: 2440 ft. above sea level

Latitude: 35° 29' 34.914" N

Longitude: 82° 30' 20.232" W

10 through 12 December 2007

Date	Time	Temp (F)	Relative Humd (%)	Wind Speed (mph)	Wind Dir (deg)	Station Press. (in Hg)	Total Precip. (in.)
12/11/2007	22:00	54	83	0.8	128	27.57	0
12/11/2007	22:05	54	83	1.7	166	27.57	0
12/11/2007	22:10	54	83	1.5	144	27.57	0
12/11/2007	22:15	54	83	1.5	126	27.57	0
12/11/2007	22:20	54	83	1.9	131	27.57	0
12/11/2007	22:25	54	83	1.2	123	27.56	0
12/11/2007	22:30	54	82	1.6	127	27.56	0
12/11/2007	22:35	54	83	1.9	125	27.56	0
12/11/2007	22:40	54	82	1.6	148	27.56	0
12/11/2007	22:45	54	84	1.6	110	27.56	0
12/11/2007	22:50	54	82	1.6	111	27.56	0
12/11/2007	22:55	54	83	1.8	138	27.55	0
12/11/2007	23:00	54	82	1.1	135	27.55	0
12/11/2007	23:05	53	84	1.3	134	27.55	0
12/11/2007	23:10	53	85	1.3	137	27.55	0
12/11/2007	23:15	53	86	1.5	127	27.55	0
12/11/2007	23:20	52	86	1.2	123	27.55	0
12/11/2007	23:25	52	87	1.1	122	27.55	0
12/11/2007	23:30	53	88	1.3	123	27.55	0
12/11/2007	23:35	53	87	1.4	120	27.54	0
12/11/2007	23:40	53	86	1.0	121	27.54	0
12/11/2007	23:45	53	87	1.3	102	27.54	0
12/11/2007	23:50	53	87	1.9	141	27.54	0
12/11/2007	23:55	52	86	1.6	126	27.53	0
12/12/2007	0:00	52	87	1.2	136	27.53	0
12/12/2007	0:05	51	88	1.4	124	27.53	0
12/12/2007	0:10	51	89	1.9	115	27.53	0
12/12/2007	0:15	53	90	1.8	106	27.52	0
12/12/2007	0:20	53	88	1.7	115	27.52	0
12/12/2007	0:25	54	88	2.3	107	27.52	0
12/12/2007	0:30	55	84	1.9	108	27.52	0
12/12/2007	0:35	56	83	2.1	110	27.52	0
12/12/2007	0:40	56	82	1.8	112	27.52	0
12/12/2007	0:45	56	82	1.4	125	27.52	0
12/12/2007	0:50	55	82	1.7	129	27.52	0
12/12/2007	0:55	54	83	1.5	132	27.52	0
12/12/2007	1:00	54	85	1.5	127	27.52	0
12/12/2007	1:05	53	85	1.1	110	27.52	0
12/12/2007	1:10	53	85	1.3	148	27.52	0
12/12/2007	1:15	52	86	0.9	135	27.52	0

Wind direction is the direction from which the wind is blowing.

Local Climatological Data-Hourly Observations Table (continued)**Mills Gap Road TCE Site, Skyland, NC**

Elevation: 2440 ft. above sea level

Latitude: 35° 29' 34.914" N

Longitude: 82° 30' 20.232" W

10 through 12 December 2007

Date	Time	Temp (F)	Relative Humd (%)	Wind Speed (mph)	Wind Dir (deg)	Station Press. (in Hg)	Total Precip. (in.)
12/12/2007	1:20	52	86	0.9	138	27.52	0
12/12/2007	1:25	52	87	0.9	161	27.52	0
12/12/2007	1:30	51	88	1.0	155	27.52	0
12/12/2007	1:35	51	88	1.0	144	27.52	0
12/12/2007	1:40	51	89	0.9	145	27.52	0
12/12/2007	1:45	51	89	1.0	148	27.52	0
12/12/2007	1:50	51	89	1.1	130	27.52	0
12/12/2007	1:55	51	89	0.8	138	27.52	0
12/12/2007	2:00	51	90	0.7	153	27.52	0
12/12/2007	2:05	51	90	0.8	129	27.52	0
12/12/2007	2:10	51	90	0.7	138	27.52	0
12/12/2007	2:15	51	90	0.7	162	27.52	0
12/12/2007	2:20	51	90	0.7	153	27.52	0
12/12/2007	2:25	51	90	0.6	145	27.52	0
12/12/2007	2:30	51	90	0.6	134	27.52	0
12/12/2007	2:35	51	90	0.6	133	27.52	0
12/12/2007	2:40	51	90	0.6	44	27.52	0
12/12/2007	2:45	50	90	1.2	4	27.52	0
12/12/2007	2:50	50	91	0.6	147	27.52	0
12/12/2007	2:55	51	90	0.6	128	27.52	0
12/12/2007	3:00	50	90	0.6	128	27.51	0
12/12/2007	3:05	50	90	1.0	140	27.51	0
12/12/2007	3:10	50	90	0.6	126	27.51	0
12/12/2007	3:15	50	90	1.0	125	27.51	0
12/12/2007	3:20	50	91	0.8	144	27.51	0
12/12/2007	3:25	50	91	0.9	103	27.51	0
12/12/2007	3:30	50	91	0.6	93	27.51	0
12/12/2007	3:35	50	91	0.6	117	27.51	0
12/12/2007	3:40	50	91	1.0	149	27.51	0
12/12/2007	3:45	51	91	0.6	141	27.51	0
12/12/2007	3:50	50	91	0.6	133	27.51	0
12/12/2007	3:55	50	91	0.6	144	27.51	0
12/12/2007	4:00	50	91	0.6	130	27.51	0
12/12/2007	4:05	50	91	0.6	138	27.51	0
12/12/2007	4:10	50	91	0.6	136	27.50	0
12/12/2007	4:15	50	91	0.7	150	27.50	0
12/12/2007	4:20	50	91	0.7	140	27.50	0
12/12/2007	4:25	50	91	0.6	134	27.49	0
12/12/2007	4:30	50	91	0.6	175	27.49	0
12/12/2007	4:35	50	91	0.6	128	27.49	0

Wind direction is the direction from which the wind is blowing.

Local Climatological Data-Hourly Observations Table (continued)**Mills Gap Road TCE Site, Skyland, NC**

Elevation: 2440 ft. above sea level

Latitude: 35° 29' 34.914" N

Longitude: 82° 30' 20.232" W

10 through 12 December 2007

Date	Time	Temp (F)	Relative Humd (%)	Wind Speed (mph)	Wind Dir (deg)	Station Press. (in Hg)	Total Precip. (in.)
12/12/2007	4:40	50	91	1.6	149	27.49	0
12/12/2007	4:45	49	90	1.0	112	27.49	0
12/12/2007	4:50	48	90	1.0	146	27.49	0
12/12/2007	4:55	48	91	0.9	222	27.49	0
12/12/2007	5:00	48	91	1.4	163	27.49	0
12/12/2007	5:05	48	91	0.6	121	27.49	0
12/12/2007	5:10	48	91	1.0	135	27.48	0
12/12/2007	5:15	48	91	1.5	147	27.48	0
12/12/2007	5:20	48	91	1.9	153	27.49	0
12/12/2007	5:25	48	91	1.1	138	27.49	0
12/12/2007	5:30	48	91	0.9	138	27.49	0
12/12/2007	5:35	47	91	1.6	138	27.49	0
12/12/2007	5:40	48	91	0.6	140	27.49	0
12/12/2007	5:45	48	91	0.6	168	27.49	0
12/12/2007	5:50	48	91	1.1	73	27.49	0
12/12/2007	5:55	48	91	1.6	132	27.49	0
12/12/2007	6:00	48	91	1.1	60	27.49	0
12/12/2007	6:05	49	92	1.1	161	27.48	0
12/12/2007	6:10	49	91	1.8	116	27.48	0
12/12/2007	6:15	48	91	2.3	123	27.48	0
12/12/2007	6:20	49	92	1.8	135	27.48	0
12/12/2007	6:25	49	91	1.7	130	27.48	0
12/12/2007	6:30	48	91	1.0	140	27.48	0
12/12/2007	6:35	48	91	0.7	103	27.49	0
12/12/2007	6:40	49	91	0.8	144	27.49	0
12/12/2007	6:45	48	91	1.3	137	27.49	0
12/12/2007	6:50	49	91	1.2	138	27.49	0
12/12/2007	6:55	49	91	0.8	148	27.49	0
12/12/2007	7:00	49	91	0.6	112	27.49	0
12/12/2007	7:05	48	91	1.9	143	27.49	0
12/12/2007	7:10	48	91	2.1	156	27.49	0
12/12/2007	7:15	48	91	0.8	129	27.49	0
12/12/2007	7:20	48	91	0.7	150	27.49	0
12/12/2007	7:25	48	91	0.8	111	27.49	0
12/12/2007	7:30	48	91	1.2	142	27.49	0
12/12/2007	7:35	48	91	0.6	151	27.49	0
12/12/2007	7:40	48	91	0.6	140	27.49	0
12/12/2007	7:45	48	91	0.6	132	27.49	0
12/12/2007	7:50	48	91	0.6	129	27.49	0
12/12/2007	7:55	48	91	0.6	149	27.49	0

Wind direction is the direction from which the wind is blowing.

Local Climatological Data-Hourly Observations Table (continued)**Mills Gap Road TCE Site, Skyland, NC**

Elevation: 2440 ft. above sea level

Latitude: 35° 29' 34.914" N

Longitude: 82° 30' 20.232" W

10 through 12 December 2007

Date	Time	Temp (F)	Relative Humd (%)	Wind Speed (mph)	Wind Dir (deg)	Station Press. (in Hg)	Total Precip. (in.)
12/12/2007	8:00	49	92	1.0	90	27.49	0
12/12/2007	8:05	49	91	1.8	144	27.49	0
12/12/2007	8:10	48	91	1.7	110	27.49	0
12/12/2007	8:15	48	91	1.7	84	27.50	0
12/12/2007	8:20	49	92	1.2	165	27.49	0
12/12/2007	8:25	49	92	0.7	163	27.49	0
12/12/2007	8:30	49	92	0.6	122	27.50	0
12/12/2007	8:35	50	92	0.6	149	27.50	0
12/12/2007	8:40	50	92	0.8	127	27.50	0
12/12/2007	8:45	50	92	1.2	160	27.50	0
12/12/2007	8:50	51	92	0.8	138	27.51	0
12/12/2007	8:55	51	92	0.6	152	27.51	0
12/12/2007	9:00	51	92	0.8	175	27.51	0
12/12/2007	9:05	51	92	0.7	140	27.51	0
12/12/2007	9:10	52	92	0.7	136	27.51	0
12/12/2007	9:15	52	92	0.9	117	27.51	0
12/12/2007	9:20	53	92	0.6	124	27.51	0
12/12/2007	9:25	53	92	0.6	112	27.51	0
12/12/2007	9:30	53	92	0.8	119	27.52	0
12/12/2007	9:35	53	92	0.7	114	27.52	0
12/12/2007	9:40	54	92	0.8	128	27.52	0
12/12/2007	9:45	54	92	0.7	123	27.52	0
12/12/2007	9:50	54	92	0.7	135	27.52	0
12/12/2007	9:55	55	92	0.8	127	27.52	0
12/12/2007	10:00	55	92	0.6	103	27.52	0
12/12/2007	10:05	56	91	1.3	35	27.52	0
12/12/2007	10:10	56	90	0.6	197	27.52	0
12/12/2007	10:15	57	87	0.8	226	27.53	0
12/12/2007	10:20	59	77	1.2	229	27.54	0
12/12/2007	10:25	61	68	1.9	262	27.54	0
12/12/2007	10:30	62	65	2.9	283	27.54	0
12/12/2007	10:35	63	63	1.8	268	27.54	0
12/12/2007	10:40	64	61	2.3	268	27.54	0
12/12/2007	10:45	64	60	2.9	295	27.55	0
12/12/2007	10:50	65	60	1.7	315	27.54	0
12/12/2007	10:55	65	59	2.5	325	27.55	0
12/12/2007	11:00	65	59	1.4	244	27.55	0
12/12/2007	11:05	65	59	2.5	339	27.55	0
12/12/2007	11:10	65	59	3.3	311	27.55	0
12/12/2007	11:15	66	58	3.2	325	27.55	0

Wind direction is the direction from which the wind is blowing.

Local Climatological Data-Hourly Observations Table (continued)

Mills Gap Road TCE Site, Skyland, NC

Elevation: 2440 ft. above sea level

Latitude: 35° 29' 34.914" N

Longitude: 82° 30' 20.232" W

10 through 12 December 2007

Date	Time	Temp (F)	Relative Humd (%)	Wind Speed (mph)	Wind Dir (deg)	Station Press. (in Hg)	Total Precip. (in.)
12/12/2007	11:20	66	57	3.2	303	27.55	0
12/12/2007	11:25	67	57	2.8	273	27.55	0
12/12/2007	11:30	67	56	3.0	340	27.55	0
12/12/2007	11:35	67	56	3.3	288	27.55	0
12/12/2007	11:40	67	55	3.1	290	27.55	0
12/12/2007	11:45	68	54	3.5	289	27.55	0
12/12/2007	11:50	68	53	3.7	294	27.55	0
12/12/2007	11:55	68	53	3.7	288	27.54	0
12/12/2007	12:00	68	53	4.1	316	27.54	0
12/12/2007	12:05	69	53	6.3	318	27.54	0
12/12/2007	12:10	68	53	5.9	333	27.54	0
12/12/2007	12:15	69	53	6.1	303	27.54	0
12/12/2007	12:20	69	53	6.5	309	27.54	0
12/12/2007	12:25	68	53	6.1	301	27.54	0
12/12/2007	12:30	69	53	6.1	327	27.54	0
12/12/2007	12:35	69	53	7.6	330	27.55	0
12/12/2007	12:40	69	54	7.2	307	27.54	0
12/12/2007	12:45	69	54	6.9	323	27.54	0
12/12/2007	12:50	69	54	4.6	314	27.54	0
12/12/2007	12:55	68	55	6.4	310	27.55	0
12/12/2007	13:00	68	55	4.5	307	27.55	0
12/12/2007	13:05	68	55	6.1	315	27.54	0
12/12/2007	13:10	68	55	6.4	310	27.54	0
12/12/2007	13:15	68	55	7.3	331	27.54	0
12/12/2007	13:20	68	56	6.3	327	27.54	0
12/12/2007	13:25	68	56	6.5	334	27.54	0

Wind direction is the direction from which the wind is blowing.