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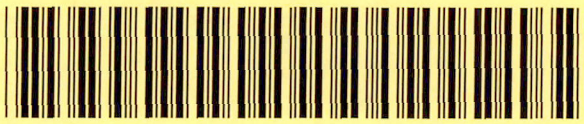

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LIMITED SOIL AND GROUNDWATER ASSESSMENT REPORT
ATKINSON STREET SITE
109 ATKINSON STREET
NCDENR ID# NONCD0002867
HAMLET, RICHMOND COUNTY, NORTH CAROLINA
ORPHAN PRIORITY SITE CONTRACT #N10005S

Prepared for:

North Carolina Department of Environment and Natural Resources
Division of Waste Management
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1.0 INTRODUCTION

&ME, Inc.'s (S&ME's) scope of services were performed in general accordance with our proposal P135-10V, dated July 15, 2010, and as authorized by the North Carolina Department of Environment and Natural Resources' (NCDENR's) Task Authorization dated August 10, 2010 for the Orphan Site Cleanup under Contract No. N10005S.

S&ME completed the following scope of services approved for this task authorization:

- Prepared a site specific Health and Safety Plan (HASP)for the site based upon suspected contamination of chlorinated solvents;
- Reviewed database listings and available public records in the NCDENR's incident file and Richmond County Health Department files for the Atkinson Street site and facilities in the vicinity to collect information on possible source areas of contamination that may be contributing to the contamination of the groundwater resource used by area water supply wells;
- Obtained permission to install soil borings (B-109-1 through B-109-4) and monitor wells (SMW-3, and DMW-1 through DMW-3) from the Richmond County Health Department and obtained monitor well installation permits from the North Carolina Division of Water Quality;
- Completed five soil borings to approximately 20 feet below the ground surface (ft-bgs);
- Collected one soil sample from each borehole (B-109-1 through B109-4 and SMW-1) for volatile organic compounds (VOCs) by EPA Method 8260B analysis;
- Installed one shallow Type II monitor well (~25 ft-bgs) on the Haught property and three deep Type II monitor wells monitor wells (one on the Haught property and two on the Butler property to a depth of approximately 95 ft-bgs);
- Collected and analyzed for VOCs by EPA Method 8260B on soil samples collected from each boring drilled for the monitor well installations and one groundwater sample from each monitor well location;
- Sampled residential water supply wells at the Haughts, Jernigans, and Butlers for analysis of VOCs by EPA Method 8260B;
- Surveyed the location and top of casing elevations from the newly installed monitor wells; and,
- Prepared this report.

2.0 PROJECT BACKGROUND

The Haught Property has a water supply well that has had concentrations of 1,1-dichloroethylene (1,1-DCE) detected in water quality samples analyzed by the Division of Waste Management (DWM) Inactive hazardous Sites Branch (IHSB). Mr. Haught's water supply well is located at 109 Atkinson Street in Hamlet, Richmond County, North Carolina. The site and vicinity are shown in **Figure 1**. Previous analytical tests performed on water sampled from the Atkinson Street site supply well detected 1,1-DCE concentrations ranging from 4.8 to 23.4 micrograms per liter (µg/L). The North Carolina groundwater quality standard for 1,1-DCE is 7.0 µg/L. The construction record on the Haught supply well indicated that the well is constructed to a depth of approximately 89 ft-bgs and was screened between 79 ft-bgs and 89 ft-bgs.

Mr. David Wells of S&ME, along with Mr. Keith Snavely, Mr. John Walch, Mr. Sean Boyles, and Mr. David Brown of NCDENR IHSB visited the Atkinson Street site on June 24, 2010. During this site visit, boring locations were reviewed and the area was observed for access restrictions. Mr. Mike Norton of the Richmond County Health Department also visited the site and communicated locations of septic tanks and drainage fields at the drill sites. Mr. Norton also checked boring locations for compliance with buffer rules for well installations. A site map showing the well and boring locations is on **Figure 2.**

Previous investigations that included sampling water supply wells were performed in the area by the North Carolina Division of Water Quality or Richmond County Health Department. S&ME is aware that two monitor wells (SMW-1 and SMW-2) were installed and sampled previously at the at the Atkinson Street site by Solutions IES Inc.

This limited investigation of the Atkinson Street site is intended to assess potential sources for the 1,1-DCE detected in the water supply well at the subject property. Other potential sources of the constituents detected in the groundwater may include the CSX railroad and the CSX Transportation Hamlet Yard site (NONCD0001420). The southern portion of the CSX property is located about 500 feet to the north of the Haught residence. The CSX railroad is located approximately 1000 feet to the northeast of the Haught residence.

3.0 SITE ACTIVITIES

S&ME personnel performed site activities to clear utilities, sample soils, describe lithology, install monitor wells, sample water supply wells, and sample groundwater from the monitor wells between September 7 and 21, 2010.

3.1 Scope Preparation, Health & Safety

The Scope of Services were designed to assess potential soil and groundwater contamination possibly originating on-site or coming from off-site sources by collecting soil and groundwater samples at predetermined locations throughout the site. S&ME prepared a site-specific HASP and notified North Carolina One-Call to have subsurface utilities marked. Bateman Civil Survey Company (BCSC) to located and marked underground utilities at the site prior to commencing field activities. S&ME obtained monitor well installation permits form the Richmond County Health Department and from the North Carolina Division of Water Quality. In addition, S&ME reviewed the public record made available by the NCDENR and by Richmond County Health Department.

3.2 Review of Public Records

S&ME obtain database listings and historical aerial photographs of the Atkinstreet Site and vicinity from Environmental Data Resources, Inc. (EDR). Based on the database listing for the Atkinson Street site, S&ME reviewed the public records made available by the NCDENR and the Richmond County Health Department. A copy of the EDR database report and associated records (i.e., historical topographic maps and aerial photographs) is included in **Appendix I**. Available public records reviewed are listed in **Section 6.0** of this report.

3.2.1 Historical Use Information (Aerial Photograph and Topographic Maps)

The historical aerial photographs showing the Atkinson Street site and surrounding area that were reviewed are dated 1958, 1976, 1983, 1993, 1999 and 2006. Historical topographic maps reviewed are dated 1942 (7.5 minute series), 1949 (15 minute and 7.5 minute series), 1957, 1982 and 2002 (7.5 minute series). Copies of the aerial photographs and the topographic maps are included with the EDR report in **Appendix I**.

The 1958 and 1976 aerial photographs show the Atkinson Street site as an agricultural field boarded by woodlands to the east, south and west. A road, railroad track, and a railroad yard are located to the north and northwest. The 1983 aerial photograph shows residential development at the Atkinson Street site. The general vicinity of the site in 1983 is similar in appearance as it was shown in the 1976 aerial photograph with additional residential development north of the railroad yard.

The 1993 aerial photograph shows additional residential development east and south of the Atkinson Street site. It appears that additional development is present at the railroad yard

site as shown with the addition of a building, roadways, and a large aboveground storage tank.

The general appearance of the Atkinson Street site and general vicinity as shown in the 1990 and 2006 aerial photographs are similar to the 1993 aerial photograph with some changes in increased residential development.

The historical topographic maps dated 1942 shows the Atkinson Street site as agricultural fields. The Seaboard Air Line railroad track is shown at a similar or same location where the current Campbell Road is located. The 1949 topographic maps also so the location of the Seaboard Air Line railroad track where Campbell Road is currently located, which is adjacent to the current Atkinson Street site's location. The 1957 topographic map no longer shows the Seaboard Air line railroad track present. Campbell Road is shown in its place, and the 1957 map not show the Seaboard railroad yard, which was not shown in the 1942 or 1949 topographic maps.

The Atkinson Street residence is shown in the 1982 topographic map along with several other residences south of Campbell Road. The general vicinity north, east and west of the site appears to be similar in site use as was depicted in 1957 topographic map. No obvious changes are noted between the 1982 and 2002 topographic maps of for the Atkinson Street site or its general vicinity, including the railroad yard to the north.

3.2.2 Summary of the Public Record Review (NCDENR & Richmond County)

S&ME obtained records from NCDENR and from Richmond County for nearby sites and properties. The NCDENR file contained reports that contained groundwater quality data for the Atkinson Street site, neighboring water supply wells, and the CSX Hamlet Diesel Shop.

Historical groundwater data obtained during the state and county file review indicated several water supply wells to the northeast, east, south and southwest of the Atkinson Street site have been sampled and analyzed for VOCs. Data from 14water supply wells including the Atkinson Street site were tabulated (reference **Groundwater Quality Summary** table in **Appendix I**). Low levels of 1,1-DCE, 1,1-Dichloroethane (1,1-DCA) and other chlorinated and non-chlorinated VOCs were detected in the water supply well samples at adjoining and adjacent properties to the south and southwest of the Haught property.

CSX Railroad operates a railroad yard on property that is located within 500 feet northeast of the Atkinson Street Site. The CSX facility has reported release incidents for contaminants that included but were not limited to petroleum hydrocarbons and chlorinated organic compounds. CSX has detected chlorinated compound concentration above 15A NCAC 2L Groundwater Standards. Chlorinated constituents detected by CSX included: 1,1-DCE, 1,1-DCA,Tetrachloroethene (PCE), Trichloroethene (TCE), cis-1,2-Dichloroethene (cis-1,2-DCE) and, 1,1,1-Trichloroethane (1,1,1-TCA).

According to the CSX Remedial Investigation (RI) Report (ARCADIS 2010), the analysis of groundwater elevations from monitor wells that intersect the aquifer zone

similar in depth to area water supply wells indicated flow was to the south-southwest, which is toward the Atkinson Street Site.

3.2.3 Regional Geology

Richmond County, North Carolina is located in the Coastal Plain Physiographic Province just east of the Fall Line described by M.D. Winner and R.W. Coble (Winner and Coble 1996). Richmond County is in an area of the Coastal Plain that is commonly called the Sand Hills and is distinguished by sand deposits that are either exposed or are near the land surface. The Coastal Plain sediments near Hamlet according to James P. Owens (Geologic Map of Cape Fear Region, 1989) include the Tertiary Pinehurst Formation, which is described as deposits of fluvial origin (Daniels and others, 1966). The deposits are massive thick bedded white medium sand with fine to coarse sand that is orange brown and may be as thick as 30 meters. Thin clay lamina may be present in the unit. The heavy mature mineral deposits are quartz-rich and include zircon, tourmaline and rutile. Moderate mineral assemblages include stauralite, sillimanite and kyanite. The Pinehurst Formation rests over the Tarheel Formation, which is Cretaceous in age and is the basal unit of the Black Creek Group. Owens describes the Tarheel Formation as thick red to white cross bedded sand and white to black thick bedded clays. The Tarheel may have a thickness of 60 meters and rests unconformably on the Cape Fear formation.

3.2.4 Regional Hydrogeology

According to Winner and Coble, the Black Creek aquifer is present in Richmond County and the area of the subject site, which likely pinches out near the Fall Line. The Black Creek Aquifer rests over the Cape Fear confining unit, which overlies the Upper Cape Fear Aquifer. The Upper Cape Fear Aquifer may be present as a thin unit below Hamlet, North Carolina. Crystalline bedrock underlies the Cape Fear Units.

A municipal water supply well was drilled for the Town of Hamlet. The well location is approximately 1.2 miles southwest of the intersection of Campbell Road and Atkinson Drive. Based on a description of the lithology by Arcadis (Remedial Investigation Report – CSX Hamlet) from the log presented in Winner and Coble, the Black Creek Confining Unit was present at elevation of 303 feet above mean sea level (ft-msl) and had a thickness of approximately 20 feet. The confining unit was underlain by the Black Creek Aquifer which had a thickness of approximately 136 feet starting from a top elevation of 283 ft-msl. The Upper Cape Fear Confining Unit was reportedly encountered at an elevation of 147 ft-msl and appears to rest on bedrock at an elevation near 117 ft-msl.

3.3 Limited Soil and Groundwater Sampling

On September 10 and 13, 2010, S&ME utilized direct-push drilling technology to advance five soil borings. On September 14, 16, and 17 three additional soil samples were collected using wash drilling techniques and split spoon samples. A photographic log of the project area is included in **Appendix II.**

In all, nine soil samples (eight record samples and one duplicate) were collected for VOC analysis by EPA Method 8260B. After the soil borings were completed, monitor wells

were installed in four of the eight soil borings. Five groundwater samples (Four record samples and one duplicate) were collected for analysis. Two quality control samples (one equipment blank and one trip blank) were collected to review the integrity of the procedures between samples and management of the sample containers through the sampling event.

3.3.1 Soil Assessment

Soil borings B-109-1 through B-109-4 and SMW-3 were advanced below the ground surface with the direct-push hydraulic drill rig. Soil samples from the borings for DMW-1, DMW-2 and DMW-3 were collected using a stainless steel split spoon driven into the subsurface soil with blows from a 140 pound hammer that was dropped thirty inches. The soil samples were classified in the field and descriptions were recorded on field log forms and summarized in a field book. The lithology based on the field classifications from the borings to depths of approximately 20 ft-bgs consisted of sandy soil described as: tan brown medium sand; tan to red clayey medium grained sand; and white or gray fine grained sand. The sand units rest on very stiff or hard tan gray silty clay encountered between 16 to 21 ft-bgs. The lithology described from borings terminated between 85 and 95 ft bgs encountered silty sand units separated by silty or sandy clay layers that varied in thickness that were present between 19 and 23 ft-bgs, 40 and 60 ft-bgs and near the termination of the borings between 72 and 95 ft-bgs.

Soil samples were field-screened for total organic vapor concentrations using a photo-ionization detector (PID). One portion of each sample was placed in a re-sealable plastic bag. A second portion of the sample was placed in a labeled laboratory-supplied container and placed on ice in an insulated container. The sample headspace PID readings were obtained after waiting approximately 15 minutes to allow the soil sample to reach ambient temperature and to allow the organic vapors from the soil sample to equilibrate with the headspace in the sample bag. After 15 minutes, the PID probe was inserted into the bag to obtain a headspace reading on with the instrument. The results from the PID screening are summarized in **Table 1**.

After recording the PID readings of organic vapor concentrations, one sample from each boring that exhibiting the highest organic vapor concentration, or had visual signs of contamination, was selected for laboratory analysis. The corresponding soil samples that were stored on ice in a jar and selected for analysis were shipped under standard Chain-of-Custody procedures to Environmental Conservation Laboratories (ENCO) of Cary, North Carolina for laboratory analysis following standard EPA Test Methods.

The soil samples were analyzed for VOCs by EPA Method 8260B. A complete list of all soil samples and their corresponding detections by the laboratory analysis are included as **Table 2** and the summary of VOC detections at soil sample locations is presented in **Figure 3.** Subsurface lithology and field screening results for the soil borings are provided in the boring logs and in the field notes, which are included as **Appendix III.**

It should be noted that the split spoon samples collected from wash drilling techniques may have been exposed to drilling fluids. The drilling fluids may impact the sample

integrity including moisture content and chemical constituents that may be present in the drilling fluid that may have contacted the soil samples.

The source of drilling fluid for DMW-1 was groundwater obtained from the Jernigan residence water supply well as authorized by an on-site IHSB staff member and with permission from Mrs. Jernigan. The drilling fluid used to drill borings for DMW-2 and DMW-3 was obtained from the City of Hamlet Public Works municipal water supply.

3.3.2 Groundwater Assessment

Installation of Monitor Wells

Boring locations where monitor wells were installed were given a "SMW" for shallow groundwater or "DMW" for groundwater depths similar to the water supply wells in the area of the site. The boring for SMW-3 was installed with a hydraulic drill that advanced 4 ¼ -inch inside diameter (ID) hollow stem augers to the termination depth of the well. The boring for SWM-3 encountered a very stiff to very hard silty clay layer at a depth of 19 ft-bgs and terminated at a depth of 21.8 feet without fully penetrating the clay layer. The shallow monitor well was installed with a ten foot well screen interval from 11.8 to 21.8 ft-bgs.

The borings for the DMW monitor wells encountered a hard sandy silty clay layer between 82 and 95 ft-bgs. The termination depths of the monitor wells DMW-1, DMW-2 and DMW-3 were 93.5 ft-bgs, 83 ft-bgs and 84 ft-bgs, respectively. The soil boring and monitor well locations are shown on **Figure 2**.

The monitor wells were constructed by installing approximately ten or five foot lengths of two-inch diameter polyvinyl chloride (PVC) slotted (0.010-inch) screens. Quartz filter sand filled the boring annulus around the well screen and bentonite was used to seal the boring annulus above the well screen and sand pack interval. Sufficient lengths of two-inch diameter PVC riser pipe were added on top of the well screens to bring the monitor wells to elevations that were above ground surface. The monitor wells were completed by hydrating the bentonite seals and then filling the boring annulus from the top of the bentonite seal to the ground surface with cement grout. The details of the monitor well construction are depicted on the boring logs are included in **Appendix III** and are summarized in **Table 3**.

Monitor well development was performed upon the completion of the well installations using a decontaminated Monsoon® stainless steel submersible well pump. During drilling, the volume of water used to wash drill or that was used to mix with drilling mud for the drilling process was monitored. Upon completion of each boring, the total volume of water used during drilling was estimated. The volume of water extracted during well development was based the volume of water introduced to the boring during drilling and on the clarity of the discharged development water. At a minimum, the volume of water removed during development exceeded the volume of water introduced into the boring during drilling. Approximately 300 to 400 gallons were pumped during the well development activities from monitor wells DMW-1, DMW-2 and DMW-3. Well development was performed to attempt to remove liquids and sediment suspended in the

water column in the well and in the surrounding sand pack that may have been impacted by drilling fluids during drilling.

Depth to Water

Upon completion of the monitor well installations, the wells were developed and allowed to equilibrate before water levels were measured for at least 24 hours. S&ME personnel measured the depth to groundwater with an electronic interface probe that was decontaminated before each use. Groundwater elevations were calculated from the water level measurements and the top of the well casing (TOC) elevations surveyed by BCSC. The groundwater level in monitor well SMW-3 was 15.16 ft-bgs. Groundwater was encountered at depths ranging from 29.2 ft-bgs in SMW-2 to 45.16 ft-bgs in DMW-1. The groundwater elevations are summarized in **Table 4.**

Only one shallow groundwater measurement point was available for measurement in the shallow monitor well network. Therefore, no groundwater flow or gradient information could be determined to estimate the potentiometric surface of the shallow groundwater.

The September 21, 2010 water level measurements were used to prepare the potentiometric surface of groundwater (**Figure 4**) from wells screened to total depths ranging between 83 ft-bgs and 93.5 ft-bgs. Based upon current groundwater elevations of wells screened at depths similar to the water supply wells in the area, this aquifer zone appears to flow generally to the southwest at a gradient of approximately 0.012. Groundwater gradient calculations are included in **Appendix IV**.

Monitor Well Sample Collection

After measuring the depth-to-water on September 21, 2010, S&ME personnel purged the four newly installed monitor wells using the Monsoon® submersible well pump. Discharge tubing from the pump was connected to a flow through cell (YSI) to measure purge parameters (pH, temperature, conductivity, dissolved oxygen, turbidity, and oxygen reduction potential) on the effluent purge water. A summary of the field parameters recorded on September 21, 2010 is included in **Table 5.** A copy of the field groundwater sampling logs is in **Appendix V.**

S&ME personnel collected groundwater samples from each of the four monitor wells after purge parameters stabilized. The monitor well locations are shown on **Figure 5.** The pump flow rate was slowed to less than one liter per minute and water flowing from the discharge tube from the pump was collected directly into the laboratory supplied containers (40 ml vials). The groundwater samples were stored in an insulated cooler with ice. Sample management was documented from collection through delivery to Environmental Conservation Laboratories, Inc., (ENCO) in Cary, North Carolina under chain-of-custody procedures. ENCO is a North Carolina certified laboratory who analyzed the groundwater samples by EPA Method 8260B for VOCs (North Carolina Certification Numbers 424, 442, and 591).

Boring Abandonment / IDW Management

Soil borings identified as B-109-1 through B-109-4 were not converted to monitor wells and were permanently abandoned by filling the boreholes with a bentonite grout mix.

Investigative derived wastes (IDW), such as soil cuttings, fluids from the wash drilling and/or mud rotary drilling methods, and purgewater generated during the soil boring advancement, well installation and groundwater sampling were collected in a sealed roll-off container that was transported to A&D Environmental Services' permitted facility for disposal.

Water Supply Well Sampling

On September 10, 2010, S&ME collected a sample from the water supply wells at the Haught residence (WSW-1), the Jernigan residence (WSW-2), and the Butler residence (WSW-3). The water supply wells were purged from the spigot located closest to the wellhead. The spigot was fully opened and water was purged until field parameters stabilized. After the parameters were stable, the flow rate from the spigot was reduced and sample containers provided by ENCO were filled for laboratory analysis. The groundwater samples were stored in an insulated cooler with ice. Sample management was documented from collection through delivery under chain-of-custody procedures to ENCO. The groundwater samples were analyzed for VOCs by EPA Method 8260B. The water supply well locations are shown on **Figure 6.**

4.0 FINDINGS

4.1 Lithology

The soil borings at the subject site encountered fine to medium sand separated by clayey sand layers with variable thicknesses. Generally up to three sandy clay layers were encountered in the borings for the Atkinson Street assessment. The elevations of the clayey units from shallow to deep ranged from 367.4 to 358.2 ft-mean sea level (ft-MSL), 340.2 to 325.5 ft-MSL and 298.2 to 282.4 ft-MSL. The less permeable sandy clay layers likely act to retard downward migration of groundwater and its constituents and may also provide a surface for groundwater and its constituents to move laterally with the gradient of the lithologic surface. Detailed descriptions of the lithology encountered at the boring locations are presented on the boring logs (**Appendix III**).

4.2 Soil Analyses

Regulatory Standards

The DWM IHSB holds regulatory jurisdiction for the site. Therefore, the detected constituents are compared to the IHSB preliminary soil remediation goals (PSRGs). The IHSB has two PSRGs: a "health-based" remediation goal for total concentrations of contaminants, and a "protection of groundwater" remediation goal for leachable concentrations of contaminants.

Organic Compounds

Acetone, tetrachloroethylene (PCE), toluene, and naphthalene concentrations were detected by the analytical tests on one or more of the record soil samples that were above the laboratory method detection limit (MDL). Only three detections of acetone in record soil samples (B-109-1 from 13-15 ft-bgs, DMW-1 from 13-15 ft-bgs, and DMW-2 from 8.5-10 ft-bgs) were above the method reporting level (MRL). The reported constituent concentrations in the soil samples were below both the IHSB health-based and groundwater protection PSRGs. The summary of soil analyses is presented in **Table 2.**

4.3 Groundwater Sampling Results

Regulatory Standards

Constituent concentrations detected in the groundwater samples that were above the laboratory MDLs are summarized on **Table 6.** As a point of reference, the detected constituents are compared to:

- Groundwater quality protection standards promulgated by Title 15A of the North Carolina Administrative Code, Subchapter 2L (15A NCAC 2L), .0200 Groundwater Quality Standards, hereafter referred to as 2L Standards.
- USEPA Drinking Water Maximum Contamination Level (MCL)

Monitor Wells

One VOC constituent 1,1-DCE was detected in the record (11 µg/L) and duplicate (12 µg/L) groundwater samples that were analyzed from monitor well DMW-1. Monitor well DMW-1 is located on the Haught property and appears to be upgradient to the Haught water supply well WSW-1 based on groundwater potentiometric contours. These 1,1-DCE concentrations detected were above the listed State and Federal regulatory standard of 7 µg/L. Concentrations of acetone, chloroform bromodichloromethane, and 1,1-DCA were detected in groundwater sampled from one or more of the four wells, but none of reported concentrations exceeded the 15A NCAC 2L groundwater standard or the Federal MCLs. Acetone was detected (3.7J) above the MDL, but below the MRL in the Trip Blank. The groundwater analytical results are summarized in **Table 6**, and a Groundwater Constituent Concentration Map is included as **Figure 5**.

Water Supply Wells

Organic Compounds

Groundwater samples were collected on September 10, 2010 from three water supply wells. The laboratory analytical results indicated that 1,1-DCE was detected at concentrations that were greater than the compound-specific NCAC 2L Standard of 7 µg/L in water from the Haught Residence water supply well (Sample ID WSW-1). 1,1-DCE was also detected in the water from the Jernigan Residence supply well (Sample ID WSW-2) at a concentration of 0.7 µg/L; and in the water supply well on the Butler Residence (WSW-3) at a concentration of 2.60 µg/L. However, 1,1-DCE concentrations at the Jernigan and Butler residences were below the NCAC 2L Standard. The groundwater analytical results are summarized in **Table 7**. The Groundwater Constituent Map for the water supply wells is in **Figure 6**. A copy of the laboratory analytical results and chain-of-custody form is included in **Appendix VI**.

With 1,1-DCE being the chemical of concern at the Haught's water supply wells (a.k.a., Atkinson Street site), S&ME compared the historical data of 1,1-DCE concentrations of samples collected from water supply wells at the Haught's water supply well and at neighboring properties (**Figure 7**). Also listed in **Figure** 7 are the concentrations of 1,1-DCE for wells located north of the Atkinson Street site at the CSX site.

Four supply wells located to the south-southeast and south of the site similarly had no detections of 1,1-DCE that were above 0.5 µg/L. 1,1-DCE concentrations were not detected above the detection limit of 0.5 µg/L in the three supply wells north of the Haught property (near Lances Run).

5.0 CONCLUSIONS

A limited soil and groundwater assessment was conducted at the Atkinson Street site located at the Haught Residence on 109 Atkinson Street in Hamlet, North Carolina. The assessment was performed in an effort to locate potential sources of 1,1-DCE contamination detected in the on-site water supply well. The assessment reviewed subsurface soils, shallow groundwater quality, groundwater quality in the aquifer zone similar to that intersected by area water supply wells, groundwater quality from the drinking water supply well on site, and drinking water quality from two supply wells in the area of the subject site.

The findings at the site are as follows:

- The soil borings at the subject site encountered fine to medium sand separated by sandy clay layers with variable thicknesses. Generally three sandy clay layers were encountered by the borings. The less permeable sandy clay layers likely act to retard downward migration of groundwater and its constituents and may also provide a surface for groundwater and its constituents to move laterally with the gradient of the lithologic surface.

- No concentrations of VOCs exceed IHSB action levels in the shallow soil. 1,1-DCE was not detected above the analytical method's detection limit. PCE was reported in three of the eight collected soil samples at concentrations above the analytical method's detection limit, but below the method's reporting limit in soil at depths above any confining clay layer.

- The September 21, 2010 groundwater elevations measured for monitor wells screened at depths between 83 ft-bgs and 93.5 ft-bgs, which is similar to the screened interval of water supply wells in the area, indicate flow was generally to the southwest at a gradient of approximately 0.012.

- Based on analytical testing, the shallow groundwater (<20 ft-bgs) is not contaminated with 1,1-DCE.

- 1,1-DCE was detected in the groundwater sample from DMW-1 at a concentration of 11 µg/L, which is above the listed 15A NCAC 2L Standards and the Federal MCL standards. DMW-1 is located on the Haught property and is screened between 83 ft-bgs and 93.5 ft-bgs, which is hydraulically upgradient to the Haught residence supply well. This data is qualified in that water used in drilling fluids was obtained from the neighboring Jernigan property, which had a reported 1,1-DCE concentration of 0.7 µg/L. There is a level of confidence in the result from well DMW-1 in that 400 gallons of water was purged during well development, and approximately 200 gallons was from the Jernigan well was used in the drilling fluids.

- Groundwater analyzed from monitor wells on the Butler property had levels of 1,1-DCE reported that were below the listed 15A NCAC 2L Standards and the Federal MCL standards.

- Analytical results of the groundwater sampled from the Haught Residence water supply well detected a 1,1-DCE concentration above the listed 15A NCAC 2L Standards and the Federal MCL standards. Groundwater analyzed from water supply wells at the Jernigan residence and the Butler residence had levels of 1,1-DCE reported that were below the listed 15A NCAC 2L Standards, and the Federal MCL standards.

- Historical groundwater analyses obtained from state and county file records indicated 14 water supply wells to the northeast, east, south and southwest of the Atkinson Street site were sampled and analyzed for VOCs. Low levels of 1,1-DCE were detected in the drinking water on three adjacent properties to the south and on three adjacent properties to the southwest of the Haught property. Three supply wells north and four supply wells located to the south-southeast and south of the Haught property did not report 1,1-DCE concentrations above the detection limit of 0.5 µg/L. The concentrations of 1,1-DCE detected in off-site supply wells were below the NCAC 2L Standard.

- The file review included reports of incidents from CSX located northeast of the Atkinson Street site just north of Campbell Road. The CSX file included summary reports the described incidents where petroleum and/or chlorinated compounds were released to the soil and groundwater. Chlorinated compounds not limited to 1,1-DCE, 1,1-DCA, PCE and TCE were reported to have impacted groundwater quality at the CSX site. Groundwater flow for the deep aquifer (i.e, the screened depth for the Haught well) is to the south-southwest, which is from the CSX property toward the Atkinson Street site.

The data obtained from this assessment did not provide sufficient evidence to indicate that a source of 1,1-DCE exists on-site. The groundwater aquifer above a confining layers at a depth of approximately 20 ft-bgs had no reported concentrations of 1,1-DCE that were above the analytical method's detection limit. In addition, the water supply well for the Atkinson Street site (a.k.a. the Haught's well) is apparently screened at a depth interval between 79 feet and 89 feet below the top of casing, which is in an aquifer below two semi confining clay layers encountered by the soil borings at depths of approximately 19 ft-bgs and 40 ft-bgs.

Since 1,1-DCE was not detected in the shallow aquifer above the confining layer at 20 ft-bgs, this evidence indicates that a potential source of 1,1-DCE appears to exist hydraulically upgradient. Additional evidence supporting this theory exists in historical analytical data that reported low levels of 1,1-DCE in water supply wells in the vicinity of the Atkinson Street site as well as monitor well test data reported in the Remedial Investigation for CSX Hamlet Yard (ARCADIS 2010). Additional analytical and subsurface data from the groundwater aquifer upgradient to the Haught property at elevations above the confining unit at approximately 20 ft-bgs, between the confining layers at approximately 20 ft-bgs and 40 ft-bgs, and from locations that directly

correspond to the aquifer zone intersected by the Atkinson Street site well are needed to assess and/or approximate the source of 1,1-DCE detected in the deeper aquifer zone.

6.0 REFERENCES

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1996, Regional Aquifer System Analysis-Northern Atlantic Coastal Plain Hydrogeologic Framework of the North Carolina Coastal Plain, M.D. Winner and R.W. Coble.

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Tables

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Table 1
Soil Field Screening Results
Atkinson Street
109 Atkinson Street
Hamlet, North Carolina
S&ME Project No. 1054-10-2002
Soil Samples Collected on September 10, 13, 15, 2010

Boring ID	Depth (ft-bgs)	PID (PPM)
B-109-1	0-5	0.0
B-109-1	5-9	0.0
B-109-1	9-13	0.6
B-109-1	**13-17**	**1.6**
B-109-1	17-20	2.8
B-109-2	0-5	0.0
B-109-2	**5-9**	**2.9**
B-109-2	9-13	0.0
B-109-2	13-17	1.7
B-109-2	17-20	1.6
B-109-3	0-5	0.1
B-109-3	5-9	1.5
B-109-3	**9-13**	**2.8**
B-109-3	13-17	0.0
B-109-3	17-20	0.0
B-109-4	0-5	0.7
B-109-4	5-9	1.1
B-109-4	**9-13**	**1.2**
B-109-4	13-17	0.8
B-109-4	17-20	0.0
SMW-3	0-5	0
SMW-3	5-9	0.1
SMW-3	9-13	0.3
SMW-3	**13-17**	**0.6**
SMW-3	17-21	0.9
SMW-3	21-24	1.9
DMW-1	3-5	0
DMW-1	8-10	0
DMW-1	**13-15**	**0.2**
DMW-1	18-20	0
DMW-1	23-25	0
DMW-1	28-30	0.1
DMW-1	33-35	0.0
DMW-2	3.5-5	0.0
DMW-2	**8.5-10**	**0.0**
DMW-2	13.5-15	0.0
DMW-2	18.5-20	0.0
DMW-2	23.5-25	0.0
DMW-2	28.5-30	0.0
DMW-2	33.5-35	0.0
DMW-3	3.5-5	0.0
DMW-3	**8.5-10**	**0.0**
DMW-3	13.5-15	0.0
DMW-3	18.5-20	0.0
DMW-3	23.5-25	0.0
DMW-3	28.5-30	0.0
DMW-3	33.5-35	0.0

Notes:
1) ft-bgs = Feet below the ground surface.
2) PID = Photo-ionization detector.
3) PPM = Parts per million, volume in air.
4) **Bold** face type and shading indicates that the sample was sent the to lab for analysis
5) See Figure 2 for soil boring locations.

TABLE 2
Summary of Soil Sampling Results
Atkinson Street Site
109 Atkinson Street
Hamlet, North Carolina
S&ME Project No. 1054-10-2002

Analytical Method			VOC[5] by EPA Method 8260B			
Sample ID	Contaminant of Concern: Date Collected (m/dd/yy)	Contaminant of Concern: Sample Depth (ft-bgs[2])	Acetone	Tetrachloroethene	Toluene	Naphthalene
			mg/Kg[1]	mg/Kg	mg/Kg	mg/Kg
B-109-1	9/10/2010	13-15	**0.0065**	<0.00027	<0.00019	<0.00023
B-109-2	9/10/2010	5-9	<0.0011[6]	**0.00061J**	<0.00019	<0.00023
B-109-3	9/10/2010	9-13	<0.0013	<0.00030	<0.00022	<0.00026
B-109-4	9/10/2010	9-13	<0.0011	<0.00026	<0.00018	<0.00022
Eq Blank*	9/10/2010	-	<0.0015	<0.00036	<0.00027	<0.00039
Trip Blank*	9/3/2010	-	<0.0015	<0.00036	<0.00027	<0.00039
DMW-1	9/14/2010	13-15	**0.011**	<0.00027	<0.00019	**0.00087J**
DMW-2	9/16/2010	8.5-10	**0.0056**	<0.00028	<0.00020	<0.00024
DMW-3	9/17/2010	8.5-10	<0.0011	**0.00046J**	<0.00019	<0.00022
SMW-3	9/13/2010	13-15	**0.0055J**	**0.00072J**	<0.00022	<0.00027
Trip Blank*	9/3/2010	-	<0.0015	<0.00036	<0.00027	<0.00039
Duplicate Soil	09/17/10	-	**0.0071**	<0.00026	**0.00040J**	<0.00022
IHSB Soil Remediation Goal Preliminary HB PSRG[3]			12,000	0.55	820	3.60
IHSB Soil Remediation Goal PG PSRG[4]			2.40	0.005	5.5	0.21

Notes:
* Equipment blank and Trip Blank sample concentrations in mlligram per liter = part per million.
J = concentration detected above the method detection limit but below the sample method reporting limit.
1. All results are listed in milligram per kilogram (mg/kg) = parts per million.
2. ft-bgs = feet below ground surface.
3. HB PSRGs = NDCENR Inactive Hazardous Sites Branch Health-Based Prelimimary Soil Remediation Goals. January 2010.
4. PG PSRGs = NDCENR Inactive Hazardous Sites Branch Groundwater Protection-Based Prelimimary Soil Remediation Goals. Ja
5. VOCs = Volatile Organic Compounds.
6. < = denotes less than sample detection limit.
Bold depicts constiuents detected above the sample method detection limit.
Bold and shaded depicts constiuents detected above IHSB or US EPA Region 9 Residential Risk-Based Level.

Table 3
Monitor Well Construction
Atkinson Street Site
109 Atkinson Street
Hamlet, North Carolina
S&ME Project No. 1054-10-2002

Well ID	Date Installed (m/dd/yy)	Date Water Level Measured (m/dd/yy)	Well Casing Depth (ft-bgs)	Screen Interval (x to y ft-bgs)			Bottom of Well (ft-bgs)	Top of Casing Elevation* (ft)	Depth to Water from Top of Casing (ft-btoc)	Groundwater Elevation** (ft)	Comments
HMW-1	02/18/09	9/13/2010	70.0	70.0	to	80.0	80.00	382.3	NM	NC	Constructed for CSX
HMW-2	02/18/09	09/13/10	26.0	26.0	to	36.0	36.00	382.45	NM	NC	Constructed for CSX
SMW-1	03/18/10	09/21/10	85.0	85.0	to	90.0	90.00	374.23	37.31	336.92	Type II - 2" Sch. 40 PVC casing w/ 0.010 slot screen.
SMW-2	03/18/10	09/21/10	75.0	75.0	to	85.0	85.00	368.65	29.20	339.45	Type II - 2" Sch. 40 PVC casing w/ 0.010 slot screen.
SMW-3	09/13/10	09/21/10	11.8	11.8	to	21.8	21.80	383.92	15.16	368.76	Type II - 2" Sch. 40 PVC casing w/ 0.010 slot screen.
DMW-1	09/14/10	09/21/10	88.5	88.5	to	93.5	93.50	385.28	45.16	340.12	Type II - 2" Sch. 40 PVC casing w/ 0.010 slot screen.
DMW-2	09/15/10	09/21/10	78.0	78.0	to	83.0	83.00	379.99	41.36	338.63	Type II - 2" Sch. 40 PVC casing w/ 0.010 slot screen.
DMW-3	09/17/10	09/21/10	78.5	79.0	to	84.0	84.00	367.03	30.34	336.69	Type II - 2" Sch. 40 PVC casing w/ 0.010 slot screen.

Notes:
ft-bgs = Feet below ground surface.
ft-btoc = Feet below top of well casing.
Elevations from a site survey by Bateman Civil Survey Company dated September 20, 2010.

Table 4
Groundwater Elevations September 2010
Atkinson Street Site
109 Atkinson Street
Hamlet, North Carolina
S&ME Project No. 1054-10-2002

Well ID	Date Measured	Top of Casing Elevation (ft.)	Depth to Water from Top of Casing (ft.)	Groundwater Elevation* (ft.)
Shallow				
HMW-1	NM	382.30	NM	NC
SMW-3	9/21/2010	383.92	15.16	368.76
Deep				
HMW-2	NM	382.45	NM	NC
SMW-1	9/21/2010	374.23	37.31	346.61
SMW-2	9/21/2010	368.65	29.20	354.72
DMW-1	9/21/2010	385.28	45.16	338.76
DMW-2	9/21/2010	379.99	41.36	342.56
DMW-3	9/21/2010	367.03	30.34	353.58

NM = Not measured.
NC = Not calculated.
Elevations from a site survey by Bateman Civil Survey Company dated September 20, 2010.

Table 5
Field Parameters
Atkinson Street Site
109 Atkinston Street
Hamlet, North Carolina
S&ME Project No. 1054-10-2002

Well Number	Field Parameter					
	pH[1]	Conductivity (mS/cm)[2]	Temperature (°C)[3]	Dissolved Oxygen (mg/L)[4]	Oxygen Reduction Potential (mV)[5]	Turbidity (NTUs)[6]
SMW-3	4.37	0.151	20.60	6.04	124.0	126
DMW-1	5.64	0.140	18.62	6.06	91	8.0
DMW-2	10.21	0.204	19.71	4.70	-106	6.1
DMW-3	7.47	0.055	18.96	7.54	-17.0	12

1. pH - Standard units.
2. mS/cm^2 - milliseimens per square centimeter.
3. °C - degrees Centigrade.
4. mg/L - milligram per liter.
5. mV - millivolt.
6. NTUs - nephrotelemetric units.

Table 6
Groundwater Sample Analyses
Atkinson Street Site
109 Atkinson Street
Hamlet, North Carolina
S&ME Project No. 1054-10-2002

Analytical Method		EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Contaminant of Concern		Acetone	Bromodichloromethane	2-Butanone	Chloroform	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	Trichloroethene	Naphthalene
Well ID	Date Collected (m/dd/yy)									
DMW-1	9/21/2010	<1.5	<1.0	<1.0	<0.20	<0.30	**1.40**	**11.00**	<0.38	<0.39
DMW-2	9/21/2010	**3.5J**	**0.41J**	<1.0	**2.20**	<0.34	<0.33	**0.90J**	<0.38	<0.39
DMW-3	9/21/2010	**4.6J**	<1.0	<1.0	**1.0**	<0.34	<0.33	**2.60**	<0.38	<0.39
SMW-3	9/21/2010	**4.0J**	<1.0	<1.0	<0.20	<0.34	<0.33	<0.24	<0.38	<0.39
Duplicate (DMW-1)	9/21/2010	<1.5	<1.0	<1.0	<0.20	<0.34	**1.30**	**12.00**	<0.38	<0.39
Equipment Blank	9/21/2010	<1.5	<1.0	<1.0	<0.20	<0.34	<0.33	<0.24	<0.38	<0.39
Trip Blank	9/21/2010	**3.7J**	<1.0	<1.0	<0.20	<0.34	<0.33	<0.24	<0.38	<0.39
15A NCAC 2L Groundwater Standard (µg/l)		6,000	0.6	4,000	70	3	6	7	3	6
National Primary (or Secondary*) Drinking Water MCL		NL	Zero	NL	70	NL	NL	7	5	NL

Notes:
All sample analytical concentrations are reported in micrograms per liter (µg/l).
J = concentration detected above the method detection limit but below the sample method reporting limit.
BOLD depicts constituents detected above the sample practical quantitation limit.
15A NCAC 2L Groundwater Standard (µg/l) amended January 1, 2010.
USEPA MCL = National Primary Drinking Water Regulations for Contaminants in Drinking Water checked 10/15/2010.
NL = Not Listed.
SHADED AND BOLD numbers indicate concentrations above NCAC 2L Groundwater Quality Standard.

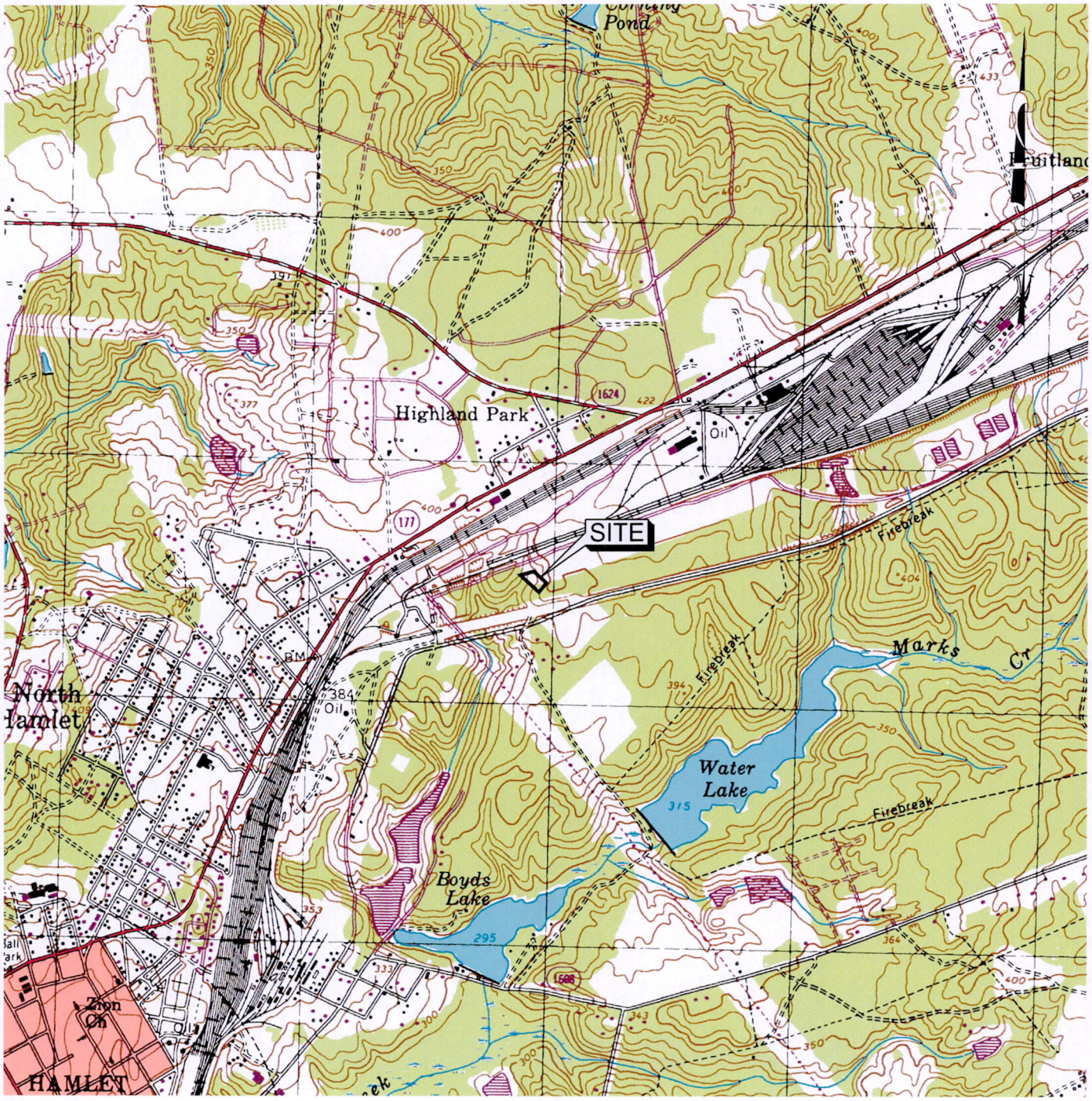
Table 7
Water Supply Well Sample Analyses
Atkinson Street Site
109 Atkinson Street
Hamlet, North Carolina
S&ME Project No. 1054-10-2002

Analytical Method (e.g., VOC by EPA 601)			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Contaminant of Concern										
Well ID	Sample ID	Date Collected (m/dd/yy)	Acetone	2-Butanone	Chloroform	Chloromethane	1,1,-Dichloroethane	1,1-Dichloroethene	Trichloroethene	Naphthalene
Haught Residence	WSW-1	9/10/2010	<1.5	<1.0	<0.20	<0.30	**1.20**	**7.10**	<0.38	<0.39
Jernigan Residence	WSW-2	9/10/2010	<1.5	<1.0	<0.20	<0.34	<0.33	**0.70**	<0.38	<0.39
Butler Residence	WSW-3	9/10/2010	<1.5	<1.0	<0.20	<0.34	<0.33	**2.60**	<0.38	<0.39
Trip Blank	Trip Blank	9/10/2010	<1.5	<1.0	<0.20	<0.34	<0.33	<0.24	<0.38	<0.39
15A NCAC 2L Groundwater Standard (µg/l)			6,000	4,000	70	3	6	7	3	6
National Primary (or Secondary*) Drinking Water MCL			NL	NL	70	NL	NL	7	5	NL

Notes:
All sample analytical concentrations are reported in micrograms per liter (µg/l).
J = concentration detected above the method detection limit, but below the sample method reporting limit.
BOLD depicts constituents detected above the sample practical quantitation limit.
15A NCAC 2L Groundwater Standard (µg/l) amended January 1, 2010.
USEPA MCL = National Primary Drinking Water Regulations for Contaminants in Drinking Water checked 10/15/2010.
NL = Not Listed.
SHADED AND BOLD numbers indicate concentrations above NCAC 2L Groundwater Quality Standard.

Figures

Figure 1	Vicinity Map
Figure 2	Site Map
Figure 3	VOC Constituents in Soil – September 2010
Figure 4	Groundwater Contour Map – September 2010
Figure 5	Groundwater Constituents – September 2010
Figure 6	Water Supply Well Groundwater Constituents – September 2010
Figure 7	Historical Water Supply Well Groundwater Constituents



GRAPHIC SCALE

1000 0 500 1000 2000

(IN FEET)

TOPO SOURCE: NCGS DRG
HAMLET NC, DATE 2002, CONTOUR INTERVAL 10 FOOT

A-1987

SCALE: 1" = 2000'	S&ME WWW.SMEINC.COM	VICINITY MAP
DATE: NOV. 2010	NC ENGINEER LICENSE #F-0176	ATKINSON STREET CONTAMINATION SITE
DRAWN BY: BTR	3201 SPRING FOREST RD, RALEIGH, NC 27616	109 ATKINSON STREET
PROJECT NO: 1054-10-2003		HAMLET, NORTH CAROLINA

FIGURE NO. 1

S:\PROJECTS\2_IHSB Orphan Priority Sites 2010\IHSB Contract Projects\1054-10-2002 Atkinson_Str_Hamlet_NCD096158696\CADA\1987.dwg, Layout1, 11/11/2010 3:52:42 PM, 1:1

LEGEND

- EXISTING MONITOR WELL LOCATION
- EXISTING SOIL BORING LOCATION

GRAPHIC SCALE

50 0 25 50

(IN FEET)

IMAGE SOURCE: NC ONEMAP, RICHMOND NC, DATED 2005

SCALE:	1" = 50'
DATE:	NOV. 2010
PROJECT NUMBER:	1054-10-2002
DRAWN BY:	BTR
DRAWING NUMBER:	B-1402
CHECKED BY:	

S&ME
WWW.SMEINC.COM
NC ENGINEER LICENSE #F-0176
3201 SPRING FOREST RD. RALEIGH, NC 27616

SITE MAP

ATKINSON STREET CONTAMINATION SITE - 109 ATKINSON ST
HAMLET, NORTH CAROLINA

FIGURE NO.

2

S:\PROJECTS\2_IHSB Orphan Priority Sites 2010\IHSB Contract Projects\1054-10-2002 Atkinson_Str_Hamlet_NC\D0961586\96\CAD\B1402.dwg, Layout1, 11/17/2010 2:53:41 PM, 1:1

LEGEND

- EXISTING MONITOR WELL LOCATION
- EXISTING SOIL BORING LOCATION

CONSTITUENT CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM (mg/Kg)

NOTE: REFER TO TABLE 2 FOR DETAILED SAMPLE DATA, SAMPLE DATES AND SAMPLE INTERVALS.

GRAPHIC SCALE

50 0 25 50

(IN FEET)

IMAGE SOURCE: NC ONEMAP, RICHMOND NC, DATED 2005

SCALE: 1" = 50'
DATE: NOV. 2010
PROJECT NUMBER: 1054-10-2002
DRAWN BY: BTR
DRAWING NUMBER: B-1403
CHECKED BY:

S&ME
WWW.SMEINC.COM
NC ENGINEER LICENSE #F-0176
3201 SPRING FOREST RD, RALEIGH, NC 27616

VOC CONSTITUENTS IN SOIL SEPTEMBER 2010

ATKINSON STREET CONTAMINATION SITE - 109 ATKINSON ST
HAMLET, NORTH CAROLINA

FIGURE NO.
3

S:\PROJECTS\2_IHSB Orphan Priority Sites 2010\IIHSB Contract Projects\1054-10-2002 Atkinson_Str_Hamlet_NCD096158696\CAD\B1403.dwg, Layout1, 11/18/2010 8:26:08 AM, 1:1

LEGEND

- EXISTING MONITOR WELL LOCATION
- EXISTING SOIL BORING LOCATION
- 377 —— GROUNDWATER CONTOUR
- (378.67) MEASURED GROUNDWATER ELEVATION
- 0.012 → HYDRAULIC GRADIENT AND GROUNDWATER FLOW DIRECTION ON SEPTEMBER 21, 2010
- * WELL NOT INCLUDED IN GROUNDWATER CONTOUR CALCULATION

GRAPHIC SCALE

50 0 25 50

(IN FEET)

IMAGE SOURCE: NC ONEMAP, RICHMOND NC, DATED 2005

SCALE: 1" = 50'
DATE: NOV. 2010
PROJECT NUMBER: 1054-10-2002
DRAWN BY: BTR
DRAWING NUMBER: B-1404
CHECKED BY:

S&ME
WWW.SMEINC.COM
NC ENGINEER LICENSE #F-0176
3201 SPRING FOREST RD, RALEIGH, NC 27616

GROUNDWATER CONTOUR MAP SEPTEMBER 2010

ATKINSON STREET CONTAMINATION SITE - 109 ATKINSON ST
HAMLET, NORTH CAROLINA

FIGURE NO.
4

S:\PROJECTS\2_IHSB Orphan Priority Sites 2010\IHSB Contract Projects\1054-10-2002 Atkinson_Str_Hamlet_NCD096158696\CAD\B1404.dwg, Layout1, 11/11/2010 4:00:09 PM, 1:1

LEGEND

- EXISTING MONITOR WELL LOCATION
- EXISTING SOIL BORING LOCATION

CONSTITUENT CONCENTRATIONS IN MICROGRAMS PER LITER (ug/L)

NOTE: REFER TO TABLE 6 FOR DETAILED SAMPLE DATA, SAMPLE DATES AND SAMPLE INTERVALS.

GRAPHIC SCALE

50 0 25 50

(IN FEET)

IMAGE SOURCE: NC ONEMAP, RICHMOND NC, DATED 2005

SCALE: 1" = 50'
DATE: NOV. 2010
PROJECT NUMBER: 1054-10-2002
DRAWN BY: BTR
DRAWING NUMBER: B-1405
CHECKED BY:

S&ME
WWW.SMEINC.COM
NC ENGINEER LICENSE #F-0176
3201 SPRING FOREST RD, RALEIGH, NC 27616

GROUNDWATER CONSTITUENTS SEPTEMBER 2010

ATKINSON STREET CONTAMINATION SITE - 109 ATKINSON ST
HAMLET, NORTH CAROLINA

FIGURE NO.
5

S:\PROJECTS\2_IHSB Orphan Priority Sites 2010\IHSB Contract Projects\1054-10-2002 Atkinson_Str_Hamlet_NCD096158696\CAD\B1405.dwg, Layout1, 11/18/2010 8:25:30 AM, 1:1

LEGEND

- EXISTING MONITOR WELL LOCATION
- EXISTING SOIL BORING LOCATION

CONSTITUENT CONCENTRATIONS IN MICROGRAMS PER LITER (ug/L)

NOTE: REFER TO TABLE 7 FOR DETAILED SAMPLE DATA, SAMPLE DATES AND SAMPLE INTERVALS.

GRAPHIC SCALE

50 0 25 50

(IN FEET)

IMAGE SOURCE: NC ONEMAP, RICHMOND NC, DATED 2005

SCALE: 1" = 80'
DATE: NOV. 2010
PROJECT NUMBER: 1054-10-2002
DRAWN BY: BTR
DRAWING NUMBER: B-1406
CHECKED BY:

S&ME
WWW.SMEINC.COM
NC ENGINEER LICENSE #F-0176
3201 SPRING FOREST RD. RALEIGH, NC 27616

WATER SUPPLY WELL GROUNDWATER CONSTITUENTS - SEPT. 2010

ATKINSON STREET CONTAMINATION SITE - 109 ATKINSON ST
HAMLET, NORTH CAROLINA

FIGURE NO.
6

S:\PROJECTS\2_IHSB Orphan Priority Sites 2010\IHSB Contract Projects\1054-10-2002 Atkinson_Str_Hamlet_NCD096158696\CAD\B1406.dwg, Layout1, 11/18/2010 8:26:48 AM, 1:1

CSX			ug/L
2/10/2009	UNKNOWN	1,1-DCE	0.54
2/10/2009	UNKNOWN	1,1-DCE	13
2/11/2009	MW-10	1,1-DCE	2.5
2/11/2009	MW-6	1,1-DCE	2.7
7/2/2009	UNKNOWN	1,1-DCE	0.65 J
7/2/2009	UNKNOWN	1,1-DCE	1.1
7/2/2009	MW-25	1,1-DCE	9.2

WILLIAM DAVID GOODWIN			ug/L
11/20/2008	WELL	1,1-DCE	BDL

WILLIAM A. JERNIGAN			ug/L
11/5/2008	WELL	1,1-DCE	BDL

WILLIAM A. JERNIGAN			ug/L
11/5/2008	WELL	1,1-DCE	0.8 J
2/9/2009	WELL	1,1-DCE	6.4
3/30/2009	WELL	1,1-DCE	4
9/24/2009	WELL	1,1-DCE	0.5 J
3/16/2010	WELL	1,1-DCE	1.6 J

GORDON HAUGHT			ug/L
10/9/2008	WSW-1	1,1-DCE	23.5
2/9/2009	WSW-1	1,1-DCE	7.4
3/30/2009	WSW-1	1,1-DCE	9.5
5/7/2009	WSW-1	1,1-DCE	6.5
9/22/2009	WSW-1	1,1-DCE	8.9
2/15/2010	WSW-1	1,1-DCE	13.4

CHAD JOHNSON			ug/L
10/30/2008	WELL	1,1-DCE	0.48
3/16/2010	WELL	1,1-DCE	1.3 J

WAYNE JOHNSON			ug/L
10/30/2008	WELL	1,1-DCE	0.6
4/1/2009	WELL	1,1-DCE	BDL
3/16/2010	WELL	1,1-DCE	BDL

JAMES BUTLER			ug/L
2/9/2009	WELL	1,1-DCE	6.4
3/30/2009	WELL	1,1-DCE	4
9/24/2009	WELL	1,1-DCE	4.4
2/15/2010	WELL	1,1-DCE	6 J

WILLIAM ARCHIE JERNIGAN			ug/L
11/5/2008	WELL	1,1-DCE	BDL

PERRY KNIGHT			ug/L
11/5/2008	WELL	1,1-DCE	0.8 J
3/16/2010	WELL	1,1-DCE	1.3 J

PERRY KNIGHT			ug/L
11/5/2008	WELL	1,1-DCE	1 J
3/16/2010	WELL	1,1-DCE	1.8 J

JAMES HUDSON			ug/L
3/19/2009	WELL	1,1-DCE	BDL

RON CHAVIS			ug/L
11/5/2008	WELL	1,1-DCE	BDL

JIMMIE JOHNSON and / or TOMMY LEE/DAVE DAVIS			ug/L
10/30/2008	WELL	1,1-DCE	0.48 J
11/5/2008	WELL	1,1-DCE	BDL
4/1/2009	WELL	1,1-DCE	0.8 J
3/16/2010	WELL	1,1-DCE	1.2 J

ELIZABETH YERLY			ug/L
3/30/2009	WELL	1,1-DCE	BDL

GRAPHIC SCALE

300 0 150 300

(IN FEET)

IMAGE SOURCE: NC ONEMAP, RICHMOND NC, DATED 2005

DATE: NOV. 2010

SCALE: 1" = 300'

DRAWN BY: BTR

PROJECT NUMBER: 1054-10-2002

CHECKED BY:

DRAWING NUMBER: B-1407

S&ME

WWW.SMEINC.COM

NC ENGINEER LICENSE #F-0176
3201 SPRING FOREST RD, RALEIGH, NC 27616

HISTORICAL GROUNDWATER CONSTITUENTS

ATKINSON STREET CONTAMINATION SITE - 109 ATKINSON ST
HAMLET, NORTH CAROLINA

FIGURE NO.

7

S:\PROJECTS\2_IHSB Orphan Priority Sites 2010\IHSB Contract Projects\1054-10-2002 Atkinson_Str_Hamlet_NCD096158696\CAD\B1407.dwg, Layout1, 11/17/2010 2:56:47 PM, 1:1

Appendices

Appendix I EDR Report and Groundwater Quality Summary Table
Appendix II Photographic Log
Appendix III Boring Logs, Well Construction Records, and Field Notes
Appendix IV Calculations
Appendix V Field Groundwater Sampling Logs
Appendix VI Laboratory Analytical Report and Chain of Custody Form

Appendix I

EDR Report and Groundwater Quality Summary Table

Atkinson Street Site
Atkinson Street
Hamlet, NC 28345

Inquiry Number: 2842105.2s
August 11, 2010

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

ATKINSON STREET
HAMLET, NC 28345

COORDINATES

Latitude (North):	34.907300 - 34° 54' 26.3"
Longitude (West):	79.674800 - 79° 40' 29.3"
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	621069.4
UTM Y (Meters):	3863367.0
Elevation:	390 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	34079-H6 HAMLET, NC
Most Recent Revision:	2002

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	2005, 2006, 2008
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL---------- National Priority List

EXECUTIVE SUMMARY

Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY..... Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent NPL

NC HSDS..... Hazardous Substance Disposal Site

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... List of Solid Waste Facilities
OLI..... Old Landfill Inventory

State and tribal leaking storage tank lists

LUST TRUST..... State Trust Fund Database
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

UST..... Petroleum Underground Storage Tank Database

EXECUTIVE SUMMARY

AST ..... AST Database
INDIAN UST ..... Underground Storage Tanks on Indian Land
FEMA UST ..... Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

INST CONTROL ..... No Further Action Sites With Land Use Restrictions Monitoring

State and tribal voluntary cleanup sites

VCP ..... Responsible Party Voluntary Action Sites
INDIAN VCP ..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS ..... Brownfields Projects Inventory

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

ODI ..... Open Dump Inventory
DEBRIS REGION 9 ..... Torres Martinez Reservation Illegal Dump Site Locations
HIST LF ..... Solid Waste Facility Listing

Local Lists of Hazardous waste / Contaminated Sites

US CDL ..... Clandestine Drug Labs
US HIST CDL ..... National Clandestine Laboratory Register

Local Land Records

LIENS 2 ..... CERCLA Lien Information
LUCIS ..... Land Use Control Information System

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System

Other Ascertainable Records

RCRA-NonGen ..... RCRA - Non Generators
DOT OPS ..... Incident and Accident Data
DOD ..... Department of Defense Sites
FUDS ..... Formerly Used Defense Sites
CONSENT ..... Superfund (CERCLA) Consent Decrees
ROD ..... Records Of Decision
UMTRA ..... Uranium Mill Tailings Sites
MINES ..... Mines Master Index File
TSCA ..... Toxic Substances Control Act

EXECUTIVE SUMMARY

FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
ICIS..... Integrated Compliance Information System
PADS..... PCB Activity Database System
MLTS..... Material Licensing Tracking System
RADINFO..... Radiation Information Database
RAATS..... RCRA Administrative Action Tracking System
UIC..... Underground Injection Wells Listing
DRYCLEANERS..... Drycleaning Sites
NPDES..... NPDES Facility Location Listing
INDIAN RESERV..... Indian Reservations
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
COAL ASH..... Coal Ash Disposal Sites
COAL ASH DOE..... Sleam-Electric Plan Operation Data
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER..... PCB Transformer Registration Database

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

State- and tribal - equivalent CERCLIS

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environment & Natural Resources' Inactive Hazardous Sites Program.

A review of the SHWS list, as provided by EDR, and dated 07/08/2010 has revealed that there is 1 SHWS site within approximately 1 mile of the target property.

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ATKINSON ST CONTAMINATION	109 ATKINSON ST	SSW 0 - 1/8 (0.015 mi.)	1	7

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incidents Management Database contains an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environment, & Natural Resources' Incidents by Address.

A review of the LUST list, as provided by EDR, and dated 05/14/2010 has revealed that there is 1 LUST site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CSX WHEEL SHOP Incident Phase: Closed Out	*RT 1 BOX 191-A*	*WSW 1/2 - 1 (0.721 mi.)*	*8*	*9*

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

TRIS: The Toxic Chemical Release Inventory System identifies facilities that release toxic chemicals to the air, water, and land in reportable quantities under SARA Title III, Section 313. The source of this database is the U.S. EPA.

A review of the TRIS list, as provided by EDR, and dated 12/31/2008 has revealed that there is 1 TRIS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
REXAM CLOSURE SYSTEMS INC	1015 COUNTY HOME RD	N 1/2 - 1 (0.556 mi.)	3	7

SSTS: Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

A review of the SSTS list, as provided by EDR, and dated 12/31/2008 has revealed that there are 2 SSTS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NOVEL PHARMACEUTICAL INC	6 E.V. HOGAN DR	NNE 1/2 - 1 (0.691 mi.)	A5	8
NOVEL PHARMACEUTICAL, INC.	6 E.V. HOGAN DRIVE	NNE 1/2 - 1 (0.691 mi.)	A6	8

EXECUTIVE SUMMARY

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 04/14/2010 has revealed that there are 3 FINDS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
IMPACT SOUTH	1057 COUNTY HOME ROAD	NNE 1/2 - 1 (0.555 mi.)	2	7
NOVEL PHARMACEUTICAL INC	6 E.V. HOGAN DRIVE	NNE 1/2 - 1 (0.691 mi.)	A4	7
RICHMOND PRIMARY	804 COUNTY HOME ROAD	NNW 1/2 - 1 (0.710 mi.)	7	9

IMD: Incident Management Database.

A review of the IMD list, as provided by EDR, and dated 07/21/2006 has revealed that there is 1 IMD site within approximately 1 mile of the target property.

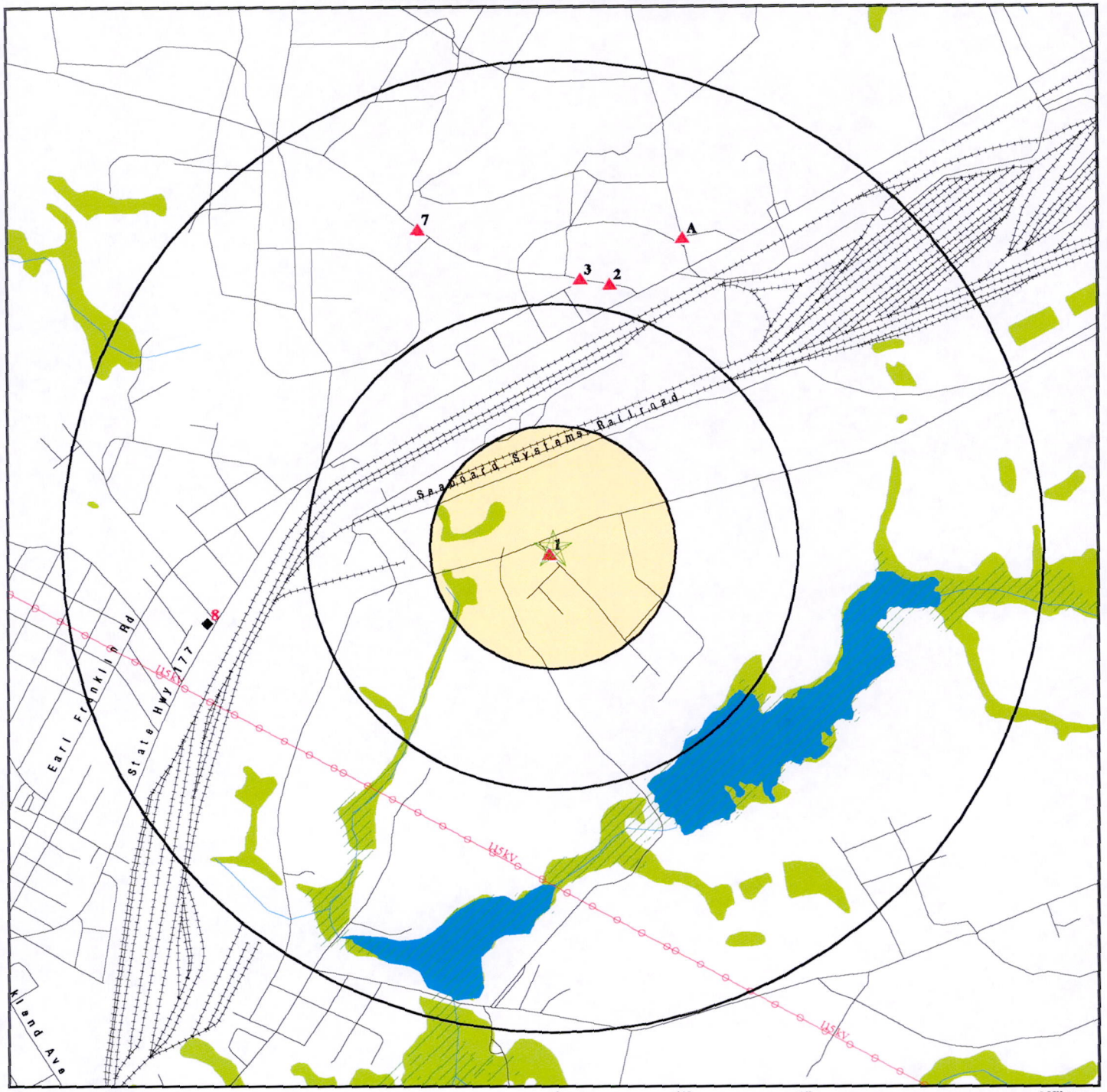
Lower Elevation	Address	Direction / Distance	Map ID	Page
CSX WHEEL SHOP	*RT 1 BOX 191-A*	*WSW 1/2 - 1 (0.721 mi.)*	*8*	*9*

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
HAMLET TOWN OF	SWF/LF, HIST LF
TARTAN MARINE PROPERTY	SHWS
CSX HAMLET DIESEL SHOP	SHWS
MARY CHAPPEL RESIDENCE	SHWS
SEABOARD CL RAILROAD	SWF/LF
S & B GROCERY	IMD, LUST, LUST TRUST
CSX, CAR SHOP 2	IMD, LUST
COCA-COLA FACILITY (FORMER)	IMD, LUST
SIGNAL DEPARTMENT BUILDING CSX	IMD, LUST
NCNG ARMORY-HAMLET	IMD, LUST
ABERDEEN & ROCKFISH R R	UST
HAMLET DISEL SHOP	UST
S & B GROCERY	UST
WHEEL SHOP	UST
BLUE OIL CO	UST
MARTIN TEXTILE SHEET METAL IN	UST
CAR SHOP 2	UST
GEORGIA-PACIFIC CORPORATION	UST
HAMLET DIESEL SHOP	UST
D.L. MCDONALD	UST
WEBSTER LOCKEY 38 MOTOR SALES	UST
LEVINER'S GROCERY	UST
COCA-COLA BOTTLING CO. CONS.	UST
BLUES OIL CO	AST
CSX TRANS (HAMLET FACILTY)	AST
HAMLET PLANT	AST
173 CSX FACILITY	RCRA-SQG, FINDS
HWY 74 E	RCRA-NonGen, FINDS
QUALITH SALVAGE CO	RCRA-NonGen
HWY 74	RCRA-CESQG, FINDS
IMPERIAL FOODS BUILDING SITE	FINDS
TOWN OF HAMLET LDFL	OLI
CHARLIE'S AUCTION WATER SYS	ICIS
TRANS CAROLINA PRODUCTS LLC	SSTS

OVERVIEW MAP - 2842105.2s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Hazardous Substance Disposal Sites

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Atkinson Street Site ADDRESS: Atkinson Street Hamlet NC 28345 LAT/LONG: 34.9073 / 79.6748	CLIENT: S&ME CONTACT: Ed Woloszyn INQUIRY #: 2842105.2s DATE: August 11, 2010 12:55 pm

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DETAIL MAP - 2842105.2s

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Hazardous Substance Disposal Sites

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Atkinson Street Site ADDRESS: Atkinson Street Hamlet NC 28345 LAT/LONG: 34.9073 / 79.6748	CLIENT: S&ME CONTACT: Ed Woloszyn INQUIRY #: 2842105.2s DATE: August 11, 2010 12:55 pm

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MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
NPL LIENS		1.000	0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL		1.000	0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS		1.000	0	0	0	0	NR	0
FEDERAL FACILITY		1.000	0	0	0	0	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP		1.000	0	0	0	0	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS		1.000	0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF		1.000	0	0	0	0	NR	0
Federal RCRA generators list								
RCRA-LQG		1.000	0	0	0	0	NR	0
RCRA-SQG		1.000	0	0	0	0	NR	0
RCRA-CESQG		1.000	0	0	0	0	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS		1.000	0	0	0	0	NR	0
US INST CONTROL		1.000	0	0	0	0	NR	0
Federal ERNS list								
ERNS		1.000	0	0	0	0	NR	0
State- and tribal - equivalent NPL								
NC HSDS		1.000	0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
SHWS		1.000	1	0	0	0	NR	1
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF		1.000	0	0	0	0	NR	0
OLI		1.000	0	0	0	0	NR	0
State and tribal leaking storage tank lists								
LUST		1.000	0	0	0	1	NR	1

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LUST TRUST		1.000	0	0	0	0	NR	0
INDIAN LUST		1.000	0	0	0	0	NR	0
State and tribal registered storage tank lists								
UST		1.000	0	0	0	0	NR	0
AST		1.000	0	0	0	0	NR	0
INDIAN UST		1.000	0	0	0	0	NR	0
FEMA UST		1.000	0	0	0	0	NR	0
State and tribal institutional control / engineering control registries								
INST CONTROL		1.000	0	0	0	0	NR	0
State and tribal voluntary cleanup sites								
VCP		1.000	0	0	0	0	NR	0
INDIAN VCP		1.000	0	0	0	0	NR	0
State and tribal Brownfields sites								
BROWNFIELDS		1.000	0	0	0	0	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS		1.000	0	0	0	0	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI		1.000	0	0	0	0	NR	0
DEBRIS REGION 9		1.000	0	0	0	0	NR	0
HIST LF		1.000	0	0	0	0	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL		1.000	0	0	0	0	NR	0
US HIST CDL		1.000	0	0	0	0	NR	0
Local Land Records								
LIENS 2		1.000	0	0	0	0	NR	0
LUCIS		1.000	0	0	0	0	NR	0
Records of Emergency Release Reports								
HMIRS		1.000	0	0	0	0	NR	0
Other Ascertainable Records								
RCRA-NonGen		1.000	0	0	0	0	NR	0
DOT OPS		1.000	0	0	0	0	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UMTRA		1.000	0	0	0	0	NR	0
MINES		1.000	0	0	0	0	NR	0
TRIS		1.000	0	0	0	1	NR	1
TSCA		1.000	0	0	0	0	NR	0
FTTS		1.000	0	0	0	0	NR	0
HIST FTTS		1.000	0	0	0	0	NR	0
SSTS		1.000	0	0	0	2	NR	2
ICIS		1.000	0	0	0	0	NR	0
PADS		1.000	0	0	0	0	NR	0
MLTS		1.000	0	0	0	0	NR	0
RADINFO		1.000	0	0	0	0	NR	0
FINDS		1.000	0	0	0	3	NR	3
RAATS		1.000	0	0	0	0	NR	0
IMD		1.000	0	0	0	1	NR	1
UIC		1.000	0	0	0	0	NR	0
DRYCLEANERS		1.000	0	0	0	0	NR	0
NPDES		1.000	0	0	0	0	NR	0
INDIAN RESERV		1.000	0	0	0	0	NR	0
SCRD DRYCLEANERS		1.000	0	0	0	0	NR	0
COAL ASH		1.000	0	0	0	0	NR	0
COAL ASH DOE		1.000	0	0	0	0	NR	0
COAL ASH EPA		1.000	0	0	0	0	NR	0
PCB TRANSFORMER		1.000	0	0	0	0	NR	0
EDR PROPRIETARY RECORDS								
EDR Proprietary Records								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID / Direction / Distance / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
1 SSW < 1/8 0.015 mi. 80 ft.	ATKINSON ST CONTAMINATION 109 ATKINSON ST HAMLET, NC	SHWS	S109541379 N/A
Relative: Higher Actual: 391 ft.	SHWS: Facility ID: NONCD0002867 Facility Type: Inactive Hazardous Sites and Pollutant-Only Sites Lat/Longitude: 34.90735 / -79.67524 Geolocation Method: ON SCREEN PLACEMENT ON GEOREFERENCED MAP		
2 NNE 1/2-1 0.555 mi. 2929 ft.	IMPACT SOUTH 1057 COUNTY HOME ROAD HAMLET, NC 28345	FINDS	1010441932 N/A
Relative: Higher Actual: 424 ft.	FINDS: Registry ID: 110031469293 Environmental Interest/Information System AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.		
3 North 1/2-1 0.556 mi. 2937 ft.	REXAM CLOSURE SYSTEMS INC 1015 COUNTY HOME RD HAMLET, NC 28345	TRIS	1001478166 28345WNSLL5C
Relative: Higher Actual: 421 ft.			
A4 NNE 1/2-1 0.691 mi. 3646 ft.	NOVEL PHARMACEUTICAL INC 6 E.V. HOGAN DRIVE HAMLET, NC 28345 Site 1 of 3 in cluster A	FINDS	1004546863 N/A
Relative: Higher Actual: 431 ft.	FINDS: Registry ID: 110011808767 Environmental Interest/Information System NCDB (National Compliance Data Base) supports implementation of the		

NOVEL PHARMACEUTICAL INC (Continued) 1004546863

Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

A5 NOVEL PHARMACEUTICAL INC SSTS 1005434172
NNE 6 E.V. HOGAN DR N/A
1/2-1 HAMLET, NC 28345
0.691 mi.
3646 ft. Site 2 of 3 in cluster A

Relative: Higher
Actual: 431 ft.

SSTS:

Product:	PHARMDINE POVIDONE-IODINE WHIRLPOOL SOLUTION
Contact:	Not reported
Status:	Active
Registration Number:	066927NC 001
Report Year:	1996
Permit:	Registered
Product Number:	06692700001
Product Type:	End-use blend, formulation, or concentrate
Product Class:	Not reported
Product Use:	Not reported
UOM:	G
Market:	Marketed in the United States and exported out of the United States
Region:	Not reported
Zero product:	Not reported
Pesticide RUP report:	Not reported

Product:	PHARMDINE POVIDONE-IODINE WHIRLPOOL SOLUTION
Contact:	Not reported
Status:	Inactive
Registration Number:	066927NC 001
Report Year:	1997
Permit:	Registered
Product Number:	06692700001
Product Type:	End-use blend, formulation, or concentrate
Product Class:	Not reported
Product Use:	Not reported
UOM:	G
Market:	Marketed in the United States and exported out of the United States
Region:	Not reported
Zero product:	Not reported
Pesticide RUP report:	Not reported

A6 NOVEL PHARMACEUTICAL, INC. SSTS 1005434173
NNE 6 E.V. HOGAN DRIVE N/A
1/2-1 HAMLET, NC 28345
0.691 mi.
3646 ft. Site 3 of 3 in cluster A

Relative: Higher
Actual: 431 ft.

SSTS:

Product:	PHARMADINE FOR WHIRLPOOLS
Contact:	Not reported
Status:	Active
Registration Number:	034740NC 001

NOVEL PHARMACEUTICAL, INC. (Continued) **1005434173**

Report Year:	1991
Permit:	Registered
Product Number:	03474000001
Product Type:	End-use blend, formulation, or concentrate
Product Class:	Disinfectant, germicide, sanitizer
Product Use:	All other products
UOM:	Not reported
Market:	Marketed in the United States
Region:	Not reported
Zero product:	Not reported
Pesticide RUP report:	Not reported

Product:	PHARMADINE WHIRLPOOL
Contact:	Not reported
Status:	Inactive
Registration Number:	034740NC 001
Report Year:	1992
Permit:	Registration Pending
Product Number:	066927R
Product Type:	End-use blend, formulation, or concentrate
Product Class:	Disinfectant, germicide, sanitizer
Product Use:	All other products
UOM:	Not reported
Market:	Marketed in the United States
Region:	Not reported
Zero product:	Not reported
Pesticide RUP report:	Not reported

7
NNW
1/2-1
0.710 mi.
3750 ft.

RICHMOND PRIMARY
804 COUNTY HOME ROAD
HAMLET, NC 28345

FINDS **1008292843**
N/A

Relative:
Higher

Actual:
428 ft.

FINDS:

Registry ID: 110036932433

Environmental Interest/Information System
NCES (National Center for Education Statistics) is the primary federal entity for collecting and analyzing data related to education in the United States and other nations and the institute of education sciences.

8
WSW
1/2-1
0.721 mi.
3809 ft.

CSX WHEEL SHOP
RT 1 BOX 191-A
HAMLET, NC

IMD **S101572085**
LUST **N/A**

Relative:
Lower

Actual:
386 ft.

IMD:

Region:	FAY
Facility ID:	7886
Date Occurred:	2/14/1992
Submit Date:	5/20/1992

CSX WHEEL SHOP (Continued) **S101572085**

GW Contam: Yes, Groundwater Contamination has been detected
Soil Contam: No
Incident Desc: UST RELEASE. TANKS REMOVED
Operator: JOHN CALHOUN
Contact Phone: Not reported
Owner Company: CSX TRANSPORTATION
Operator Address: 500 WATER ST
Operator City: JACKSONVILLE
Oper City,St,Zip: JACKSONVILLE, FL 32202
Ownership: Not reported
Operation: Not reported
Material: Not reported
Qty Lost 1: Not reported
Qty Recovered 1: Not reported
Source: Leak-underground
Type: Gasoline/diesel
Location: Facility
Setting: Not reported
Risk Site: Not reported
Site Priority: Not reported
Priority Code: Not reported
Priority Update: Not reported
Dem Contact: KEC
Wells Affected: Not reported
Num Affected: 0
Wells Contam: Not reported
Sampled By: Not reported
Samples Include: Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Latitude: Not reported
Longitude: Not reported
Latitude Number: Not reported
Longitude Number: Not reported
Latitude Decimal: Not reported
Longitude Decimal: Not reported
GPS: NOD
Agency: Not reported
Facility ID: 7886
Last Modified: 12/18/1995
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: 11/1/1995

LUST:
Facility ID: 0-018084
UST Number: FA-332
Incident Number: 7886

CSX WHEEL SHOP (Continued) **S101572085**

Contamination Type:		Groundwater/Both
Source Type:	Leak-underground	
Product Type:	PETROLEUM	
Date Reported:	2/14/1992	
Date Occur:	2/14/1992	
Cleanup:	2/14/1992	
Closure Request:	11/1/1995	
Close Out:	11/1/1995	
Level Of Soil Cleanup Achieved:		Not reported
Tank Regulated Status:		r
# Of Supply Wells:	Not reported	
Commercial/NonCommercial UST Site:		c
Risk Classification:		L
Risk Class Based On Review:		L
Corrective Action Plan Type:		Not reported
NOV Issue Date:	Not reported	
NORR Issue Date:	Not reported	
Site Priority:	Not reported	
Phase Of LSA Req:	Not reported	
Site Risk Reason:	Not reported	
Land Use:	Not reported	
MTBE:	Not reported	
MTBE1:	Unknown	
Flag:	No	
Flag1:	No	
LUR Filed:	Not reported	
Release Detection:	0	
Current Status:	File Located in Archives	
RBCA GW:	Not reported	
PETOPT:	3	
RPL:	False	
CD Num:	58	
Reel Num:	0	
RPOW:	False	
RPOP:	False	
Error Flag:	0	
Error Code:	N	
Valid:	False	
Lat/Long:	Not reported	
Lat/Long Decimal:	0 0	
Testlat:	Not reported	
Regional Officer Project Mgr:		KEC
Region:		Fayettville
Company:		CSX TRANSPORTATION
Contact Person:		JOHN CALHOUN
Telephone:		Not reported
RP Address:		500 WATER ST
RP City,St,Zip:		JACKSONVILLE, FL 32202
RP County:		Not reported
Comments:	ARCHIVED FA-332	
5 Min Quad:	Not reported	
Last Modified:		12/18/1995
Incident Phase:		**Closed Out**
NOV Issued:		Not reported
NORR Issued:		Not reported
45 Day Report:		Not reported
Public Meeting Held:		Not reported

CSX WHEEL SHOP (Continued) **S101572085**

Corrective Action Planned:	Not reported
SOC Signed:	Not reported
Reclassification Report:	Not reported
RS Designation:	Not reported
Closure Request Date:	Not reported
Close-out Report:	11/1/1995

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ABERDEEN	U001201105	ABERDEEN & ROCKFISH R R	HIGHWAY 211 SOUTH	28345	UST
HAMLET	S103229500	TARTAN MARINE PROPERTY	NC & HC 2032	28345	SHWS
HAMLET	U001197591	HAMLET DISEL SHOP	RT 1	28345	UST
HAMLET	U003146037	S & B GROCERY	74 RT 1	28345	UST
HAMLET	U001197590	WHEEL SHOP	RT 1	28345	UST
HAMLET	S101572820	S & B GROCERY	RT 1	28345	IMD, LUST, LUST TRUST
HAMLET	U001198916	BLUE OIL CO	RT 1	28345	UST
HAMLET	U001202284	MARTIN TEXTILE SHEET METAL IN	RT 1	28345	UST
HAMLET	A100187774	BLUES OIL CO	RT 1	28345	AST
HAMLET	A100187783	CSX TRANS (HAMLET FACILTY)	RT 1	28345	AST
HAMLET	U001197594	CAR SHOP 2	HWY 177	28345	UST
HAMLET	U001188282	GEORGIA-PACIFIC CORPORATION	HWY 177 S	28345	UST
HAMLET	U001197218	HAMLET DIESEL SHOP	HWY 177	28345	UST
HAMLET	U003145225	D.L. MCDONALD	HWY 177 N	28345	UST
HAMLET	S103130160	CSX, CAR SHOP 2	HWY 177	28345	IMD, LUST
HAMLET	S110365999	CSX HAMLET DIESEL SHOP	NC 177		SHWS
HAMLET	U003142614	WEBSTER LOCKEY 38 MOTOR SALES	RT 2	28345	UST
HAMLET	U001187081	LEVINER'S GROCERY	RT 2 S	28345	UST
HAMLET	1004744706		HWY 74 E	28345	RCRA-NonGen, FINDS
HAMLET	1004747313		HWY 74	28345	RCRA-CESQG, FINDS
HAMLET	S105894047	COCA-COLA FACILITY (FORMER)	1662 HWY 74 E	28345	IMD, LUST
HAMLET	U001198051	COCA-COLA BOTTLING CO. CONS.	HWY 74 E	28345	UST
HAMLET	1010786958	QUALITH SALVAGE CO	1197 HWY 74 E	28345	RCRA-NonGen
HAMLET	1008910683	IMPERIAL FOODS BUILDING SITE	S BRIDGES ST	28345	FINDS
HAMLET	S109611279	SEABOARD CL RAILROAD	CAMPBELL RD	28345	SWF/LF
HAMLET	1000831316		173 CSX FACILITY	28345	RCRA-SQG, FINDS
HAMLET	S101573990	SIGNAL DEPARTMENT BUILDING CSX	CSX FACILITY	28345	IMD, LUST
HAMLET	S105764379	NCNG ARMORY-HAMLET	LAKESIDE DR	28345	IMD, LUST
HAMLET	1011583989	CHARLIE'S AUCTION WATER SYS	441 LEWIS BREEDEN BLVD	28345	ICIS
HAMLET	S109316532	MARY CHAPPEL RESIDENCE	1061 MARLBORO ST	28345	SHWS
HAMLET	S103240217	HAMLET TOWN OF	USHY 74 OFF	28345	SWF/LF, HIST LF
HAMLET	S105485934	TOWN OF HAMLET LDFL	USHY 74 E & HWY 74A	28345	OLI
HAMLET	1010570284	TRANS CAROLINA PRODUCTS LLC	169 SE V HOGAN DR	28345	SSTS
HAMLET	A100322556	HAMLET PLANT	WAY NC COOP 4MILS HAMLET AIRPO	28345	AST

EDR ZIP Code Scan Report

ZIP	EDR-ID	Facility ID	Name	Address	Map/Dir/Dist	City	State	Databases
** - Indicates location may or may not be in requested radius. Site has not been assigned a latitude/longitude coordinate. Further review recommended.								
28345	2010011416				**	HAMLET	NC	HMIRS
28345	1007708786	110018653820	HAMLET WWTP TOWN OF		**	HAMLET	NC	FINDS
28345	1009772078	110026856837	FAIRVIEW SCHOOL		**	HAMLET	NC	FINDS
28345	1007704846	110018614365	WHEEL SHOP	ROUTE 1 BOX 191-B	**	HAMLET	NC	FINDS
28345	U001197590	0-018084	WHEEL SHOP	ROUTE 1 BOX 191-B	**	HAMLET	NC	UST
28345	U001197591	0-018085	HAMLET DISEL SHOP	ROUTE 1 BOX 191A	**	HAMLET	NC	UST
28345	1007704857	110018614506	HAMLET DISEL SHOP	ROUTE 1 BOX 191A	**	HAMLET	NC	FINDS
28345	S101572085	7886	CSX WHEEL SHOP	RT 1 BOX 191-A	8, West, 1/2 - 1	HAMLET	NC	IMD, LUST
28345	1007699739	110018563295	BLUE OIL CO	RT 1 BOX 261A	**	HAMLET	NC	FINDS
28345	U001198916	0-019811	BLUE OIL CO	RT 1 BOX 261A	**	HAMLET	NC	UST
28345	U001202284	0-025319	MARTIN TEXTILE SHEET METAL IN	RT 1 BOX 282AA	**	HAMLET	NC	UST
28345	1007699176	110018557630	MARTIN TEXTILE SHEET METAL IN	RT 1 BOX 282AA	**	HAMLET	NC	FINDS
28345	U003146037	0-024473	S & B GROCERY	ROUTE 1, BOX 298 - HIGHWAY 74	**	HAMLET	NC	UST
28345	1007724617	110018812588	S AND B GROCERY	ROUTE 1, BOX 298 - HIGHWAY 74	**	HAMLET	NC	FINDS
28345	A100187783	77026	CSX TRANS (HAMLET FACILTY)	RT 1, BOX 191A	**	HAMLET	NC	AST
28345	A100187774	77017	BLUES OIL CO	RT 1, BOX 261-A	**	HAMLET	NC	AST
28345	S105485928	NONCD0000515	HAMLET DUMP	SR 1608, 1/2 MI NE OF HAMLET	**	HAMLET	NC	OLI
28345	U001198604	0-019406	HAMLET RADIO TOWER	SR 1615	**	HAMLET	NC	UST
28345	U001197218	0-017398	HAMLET DIESEL SHOP	HIGHWAY 177	**	HAMLET	NC	UST
28345	U001197592	0-018086	SEABOARD SYSTEM RR	HIGHWAY 177		HAMLET	NC	UST
28345	1007700239	110018568316	HAMLET DIESEL SHOP	HIGHWAY 177	**	HAMLET	NC	FINDS
28345	U001197594	0-018088	CAR SHOP 2	HIGHWAY 177	**	HAMLET	NC	UST
28345	U001197595	0-018089	HAMLET TERMINAL - TOOL HOUSE	HIGHWAY 177	**	HAMLET	NC	UST
28345	1000396049	110009296252	TARTAN MARINE PROPERTY	HIGHWAY 177 & SR 2032	**	HAMLET	NC	CERCLIS-NFRAP, RCRA-NonGen, FINDS
28345	U001188282	0-003424	GEORGIA-PACIFIC CORPORATION	HIGHWAY 177 SOUTH	**	HAMLET	NC	UST
28345	S101572084	7885	CSX DIESEL SHOP	HWY 177		HAMLET	NC	IMD, LUST
28345	S103130160	7950	CSX, CAR SHOP 2	HWY 177	**	HAMLET	NC	IMD, LUST
28345	U003145225	0-018689	D.L. MCDONALD	HWY 177 NORTH	**	HAMLET	NC	UST
28345	1000344970	NCD000616219	GA-PACIFIC CORP	HWY 177 S		HAMLET	NC	CERCLIS-NFRAP, RCRAInfo-SQG, SHWS
28345	S110365999		CSX HAMLET DIESEL SHOP	NC 177	**	HAMLET	NC	SHWS
28345	1007702594	110018591852	PANTRY #357	HIGHWAY 177/104 SOUTH CHERAW ROAI	**	HAMLET	NC	FINDS
28345	S105485929	NONCD0000519	HAMLET TRASH DISPOSAL AREA	SR 1811, 1/2 MI SW OF TOWN	**	HAMLET	NC	OLI
28345	1007727051	110018836946	CAROLINA GENERATION, LIMITED LIABILI	S.R. 1900 - BATTLEY DAIRY ROAD	**	HAMLET	NC	FINDS
28345	1012120215	110039008855	KAREL COMPANY	SR 1900 & 1914	**	HAMLET	NC	FINDS
28345	1007708886	110018654810	WEBSTER LOCKEY 38 MOTOR SALES	ROUTE 2 BOX 529-A	**	HAMLET	NC	FINDS
28345	1007702062	110018586537	JAMES HAROLD HINSON	ROUTE 2 BOX 818	**	HAMLET	NC	FINDS
28345	U000820590	0-019481	JAMES HAROLD HINSON	RT. 2 BOX 818	**	HAMLET	NC	UST
28345	U003142614	0-001399	WEBSTER LOCKEY 38 MOTOR SALES	RTE 2 BOX 529-A	**	HAMLET	NC	UST
28345	1007719595	110018762221	LEVINER S GROCERY	ROUTE 2- HIGHWAY 177 SOUTH	**	HAMLET	NC	FINDS
28345	U001187081	0-001624	LEVINER'S GROCERY	RTE 2- HIGHWAY 177 S	**	HAMLET	NC	UST
28345	U001201105	0-023486	ABERDEEN & ROCKFISH R R	HIGHWAY 211 SOUTH	**	ABERDEEN	NC	UST
28345	1000270656	110006070027	ROCKINGHAM STAINLESS STEEL	RT 3 BOX 345 HYLAN AVE		HAMLET	NC	RCRA-NonGen, FINDS
28345	1010786958	NCS000001058	QUALITH SALVAGE CO	1197 HWY 74 EAST	**	HAMLET	NC	RCRA-NonGen
28345	1011406589	110035438853	QUALITH SALVAGE CO	1197 HWY 74 EAST	**	HAMLET	NC	FINDS
28345	1009803753	110027251701	RICH MIX	1656 HWY 74 E	**	HAMLET	NC	FINDS
28345	1007694089	110018506678	HAMLET COCA COLA CO.	HIGHWAY 74 EAST P.O. BOX 711		HAMLET	NC	FINDS
28345	1004747313	110007671670	RICHMOND COMMUNITY COLLEGE	HWY 74	**	HAMLET	NC	RCRA-CESQG, FINDS
28345	1004744706	110007659596	CAROLINA WASTE SYS INC	HWY 74 E	**	HAMLET	NC	RCRA-NonGen, FINDS
28345	U001198051	0-018657	COCA-COLA BOTTLING CO. CONS.	HWY 74 EAST	**	HAMLET	NC	UST
28345	U001198450	0-019220	HAMLET COCA COLA CO.	HWY 74 EAST P.O. BOX 711		HAMLET	NC	UST
28345	S105485934	NONCD0000750	TOWN OF HAMLET LDFL	US 74 E @ HWY 74A	**	HAMLET	NC	OLI
28345	S103130204	9793	AMERICAN REFUGE SYSTEM, INC.	US 74 WEST	**	HAMLET	NC	IMD, LUST
28345	1008389150	110022549768	METROMONT MATERIALS CORPORATION	1053 AIRPORT RD		HAMLET	NC	FINDS
28345	1007713633	110018702331	NEBO WESLEYAN METHODIST CH	1820 AIRPORT ROAD		HAMLET	NC	FINDS
28345	1000461560	110004021683	KAREL CO INC	234 BATTLEY DAIRY RD		HAMLET	NC	RCRA-NonGen, FINDS
28345	U001198127	0-018753	CATAWBA TIMBER CO RICHMOND CO	BATTLEY DAIRY RD	**	HAMLET	NC	UST
28345	1007698407	110018549926	CATAWBA TIMBER CO RICHMOND CO	BATTLEY DAIRY ROAD	**	HAMLET	NC	FINDS
28345	1007203456	NCT003448453	KAREL COMPANY, INC.	BATTLEY ROAD	**	HAMLET	NC	RCRAInfo-LQG
28345	U001187846	0-002779	CAROLINA WASTE SYSTEMS. INC.	P.O. BOX 832	**	HAMLET	NC	UST
28345	1007721815	110018784537	CAROLINA WASTE SYSTEMS. INCORPOR	P.O. BOX 832	**	HAMLET	NC	FINDS
28345	1005671542	110010721353	HAMLET WATER SYS	PO BOX 1229	**	HAMLET	NC	FINDS
28345	1011619226		HAMLET WATER SYSTEM	PO BOX 1229 HAMLET NC 28345	**	HAMLET	NC	ICIS
28345	1007706294	110018628886	NC NATIONAL GUARD	293 BOYD LAKE DRIVE		HAMLET	NC	FINDS
28345	S101572748	9317	CSX - ROADWAY SHOP	BOYD LAKE RD	**	HAMLET	NC	IMD, LUST
28345	U001198561	0-019355	MCLAURIN CENTER	10 N BRIDGES ST		HAMLET	NC	UST
28345	1007694590	110018511699	MCLAURIN CENTER	10 NORTH BRIDGES STREET		HAMLET	NC	FINDS
28345	1004744904	110004022389	PPG PRINTING INKS	3 BRIDGES ST	**	HAMLET	NC	RCRA-NonGen, FINDS

EDR ZIP Code Scan Report

ZIP	EDR-ID	Facility ID	Name	Address	Map/Dir/Dist	City	State	Databases
28345	1003108905	NCN000407296	IMPERIAL FOODS BUILDING SITE	SOUTH BRIDGES STREET		HAMLET	NC	CERCLIS
28345	1008910683	110022918510	IMPERIAL FOODS BUILDING SITE	SOUTH BRIDGES STREET	**	HAMLET	NC	FINDS
28345	S109611279		SEABOARD CL RAILROAD	CAMPBELL ROAD	**	HAMLET	NC	SWF/LF
28345	1000281595	110004035730	HAMLET CLEANERS INC	211 CHAMPLAIN ST		HAMLET	NC	RCRA-NonGen, FINDS
28345	U001200254	0-022034	PANTRY 357	104 S CHERAW RD		HAMLET	NC	IMD, LUST, UST
28345	1012305449	110040371102	HOOD PACKAGING CORP	740 CHERAW RD		HAMLET	NC	FINDS
28345	1005594481	110001503579	BUNKER INDUSTRIES	785 CHERAW ROAD		HAMLET	NC	FINDS
28345	A100322556		HAMLET PLANT	NC COOP WAY 4MILS SW HAMLET W AIRI	**	HAMLET	NC	AST
28345	1008381190	110022483258	NCEMC - RICHMOND COUNTY GENERATI	162 COOPERATIVE WAY	**	HAMLET	NC	FINDS
28345	1001478166	28345WNSLL5C	REXAM CLOSURE SYSTEMS INC	1015 COUNTY HOME RD	3, NNE, 1/2 - 1	HAMLET	NC	TRIS
28345	1000319741	110000349944	REXAM CLOSURE SYSTEMS INC	1015 COUNTY HOME RD		HAMLET	NC	RCRA-CESQG, FINDS, UST
28345	1010441932	110031469293	IMPACT SOUTH	1057 COUNTY HOME ROAD	2, NNE, 1/2 - 1	HAMLET	NC	FINDS
28345	1008292843	110036932433	RICHMOND PRIMARY	804 COUNTY HOME ROAD	7, NNW, 1/2 - 1	HAMLET	NC	FINDS
28345	1000831316	110004029541	CSX TRANSPORTATION INC	173 CSX FACILITY	**	HAMLET	NC	RCRAInfo-SQG, FINDS
28345	S101573990	13454	SIGNAL DEPARTMENT BUILDING CSX	CSX FACILITY HWY 177	**	HAMLET	NC	IMD, LUST
28345	1008154705	110020753264	RITZ-CRAFT CORPORATION	106 DEVELOPMENT DRIVE	**	HAMLET	NC	FINDS
28345	S101522804	5838	ARLO'S TEXACO	DOWNTOWN		HAMLET	NC	IMD
28345	1010570284		TRANS CAROLINA PRODUCTS LLC	169 S E V HOGAN DR	**	HAMLET	NC	SSTS
28345	1012006875	110038284610	TRANS CAROLINA PRODUCTS LLC	169 S E V HOGAN DR	**	HAMLET	NC	FINDS
28345	1004550130	110001480870	HUDSON PAVING INCORPORATED	153 EDDIE LANE		HAMLET	NC	FINDS
28345	S108492625		RICHMOND COUNTY COMBUSTION TURB	198 ENERGY WAY	**	HAMLET	NC	NPDES
28345	1010559933	28345PRGRSNC	PROGRESS ENERGY CAROLINAS RICHM(	198 ENERGY WAY	**	HAMLET	NC	TRIS
28345	1004746993	110004060417	PROGRESS ENERGY CAROLINAS INC	198 ENERGY WAY	**	HAMLET	NC	RCRAInfo-SQG, FINDS
28345	A100186504	77027	CAROLINA POWER AND LIGHT COMPANY	198 ENERGY WAY	**	HAMLET	NC	AST
28345	1011619527		PROGRESS ENERGY CAROLINAS INC	198 ENERGY WAY HAMLET NC 28345	**	HAMLET	NC	ICIS
28345	S108280502		HAMLET WWTP	790 FREEMAN MILL RD		HAMLET	NC	NPDES
28345	1004550185	110006367458	CITY OF HAMLET	790 FREEMAN MILL ROAD		HAMLET	NC	FINDS
28345	1011981632	110037947390	AMERICAN TOWER CORPORATION (ATC)	235 GRACE CHAPEL ROAD		HAMLET	NC	FINDS
28345	1007718909	110018755337	MAPCO INCORPORATED	551 SOUTH GRACE CHAPEL CHURCH RO.		HAMLET	NC	FINDS
28345	1008309835	110036951956	FAIRVIEW HEIGHTS ELEMENTARY	104 HAMILTON AVE		HAMLET	NC	FINDS
28345	1005654568	110001504925	SANDHILLS REGIONAL MEDICAL CENTER	1000 WEST HAMLET AVENUE		HAMLET	NC	FINDS
28345	U001206465	0-032634	VACANT BLDG & LOT	101 HAMLET AVENUE		HAMLET	NC	UST
28345	1007708923	110018655196	VACANT BUILDING AND LOT	101 HAMLET AVENUE	**	HAMLET	NC	FINDS
28345	U001198974	0-019882	RICHMOND COMMUNITY COLLEGE	1042 W HAMLET AVE		HAMLET	NC	UST
28345	1011445409	110036086507	RICHMOND EARLY COLLEGE HIGH	1042 W. HAMLET AVE		HAMLET	NC	FINDS
28345	1007725871	110018825119	RICHMOND COMMUNITY COLLEGE	1042 WEST HAMLET AVENUE		HAMLET	NC	FINDS
28345	1007719678	110018763051	ALLBEV INCORPORATED	122 HAMLET AVENUE	**	HAMLET	NC	FINDS
28345	U003145202	0-018547	ALLBEV INC	122 HAMLET AVNUE		HAMLET	NC	UST
28345	U001198558	0-019351	HAMLET GIN & SUPPLY	17 E. HAMLET AVE		HAMLET	NC	UST
28345	1007722313	110018789505	HAMLET GIN AND SUPPLY	17 EAST HAMLET AVENUE		HAMLET	NC	FINDS
28345	U001186826	0-001219	SEABOARD EXXON	2 HAMLET AVE		HAMLET	NC	UST
28345	S101572875	9388	SEABOARD EXXON STATION	2 HAMLET AVE		HAMLET	NC	IMD, LUST
28345	1007708980	110018655748	SEABOARD EXXON	2 HAMLET AVENUE	**	HAMLET	NC	FINDS
28345	S101522249	3336	FAST FARE--HAMLET	302 HAMLET AVE.		HAMLET	NC	IMD, LUST
28345	U003943132	0-036587	STARFLITE CONVENIENCE STORE I	327 E HAMLET AVENUE		HAMLET	NC	UST
28345	U003369560	0-019063	HAMLET CONVENIENCE STORE 273	329 E. HAMLET AVE.		HAMLET	NC	UST
28345	1007726591	110018832316	HAMLET CONVENIENCE STORE #273	329 EAST HAMLET AVENUE		HAMLET	NC	FINDS
28345	U001203815	0-027805	ADMINISTRATIVE OFFICE	522 HAMLET AVE		HAMLET	NC	UST
28345	1007712355	110018689524	ADMINISTRATIVE OFFICE	522 HAMLET AVENUE	**	HAMLET	NC	FINDS
28345	1007291913		RICHMOND COUNTY SCHOOL DISTRICT	522 HAMLET STREET	**	HAMLET	NC	FTTS
28345	1004550878	110011522851	RICHMOND COUNTY SCHOOLS	522 W. HAMLET AVE		HAMLET	NC	FTTS, FINDS
28345	U003145381	0-019805	K & S OF HAMLET INC	543 HAMLET AVE		HAMLET	NC	UST
28345	1007716711	110018733272	K AND S OF HAMLET INCORPORATED	543 HAMLET AVENUE	**	HAMLET	NC	FINDS
28345	1000448906	110004038746	FAST FARE. INC. 666	702 HAMLET AVENUE	**	HAMLET	NC	RCRA-NonGen, FINDS, UST
28345	U001198541	0-019333	ROBINSON'S TEXACO	713 W. HAMLET AVE		HAMLET	NC	IMD, LUST, UST
28345	U003987759	0-036715	TRADE WILCO 1894	728 WEST HAMLET AVENUE		HAMLET	NC	UST
28345	U001197812	0-018359	GEORGE E. CRUMP SR.	802 W. HAMLET AVE		HAMLET	NC	UST
28345	1007704123	110018607140	GEORGE E. CRUMP SR.	802 WEST HAMLET AVENUE		HAMLET	NC	FINDS
28345	S101572776	9388	SEABOARD GAS STATION	HAMLET AVE		HAMLET	NC	IMD
28345	1001491728	NCSFN0406961	HAMLET CSX TRAIN DERAILMENT	HAMLET AVENUE	**	HAMLET	NC	CERCLIS-NFRAP
28345	S103131703	16747	CSX TRANS. FUEL STORAGE AREA	HAMLET RAIL YARD	**	HAMLET	NC	IMD
28345	S103131702	16748	CSX TRANS. OLD FUEL AREA	HAMLET RAIL YARD	**	HAMLET	NC	IMD
28345	93331529		HAMLET RAILYARD 361 CSX DR	HAMLET RAILYARD 361 CSX DR		HAMLET	NC	ERNS
28345	1007713639	110018702395	GRACE CHAPEL CHURCH	2035 US HIGHWAY 74 EAST		HAMLET	NC	FINDS
28345	1005594509	110001503329	BROWN AND ROOT INCORPORATED	357 NC HIGHWAY 381		HAMLET	NC	FINDS
28345	1006223384	110009849995	GEORGIA-PACIFIC CORPORATION	NC HIGHWAY 177 S/MARKS CRK LN		HAMLET	NC	FINDS
28345	S103229500	NCD000828566	TARTAN MARINE PROPERTY	NC HIGHWAY 77 / SR 2032	**	HAMLET	NC	SHWS
28345	1005964921	110000349935	TRINITY MANUFACTURING INCORPORATI	11 E.V. HOGAN DR.	**	HAMLET	NC	FINDS
28345	1005438337		TRINITY MANUFACTURING, INC.	11 E.V. HOGAN DRIVE	**	HAMLET	NC	SSTS
28345	1010681086	110031090655	TRANS CAROLINA PRODUCTS LLC	11 E.V. HOGAN DRIVE	**	HAMLET	NC	FINDS

EDR ZIP Code Scan Report

ZIP	EDR-ID	Facility ID	Name	Address	Map/Dir/Dist	City	State	Databases
28345	1009408961	110024908331	TRANSPORTATION CAROLINA PRODUCT:	11 E.V. HOGAN DRIVE	**	HAMLET	NC	FINDS
28345	1005447353	28345TRNTY11	TRINITY MANUFACTURING INC	11 EV HOGAN DR	**	HAMLET	NC	TRIS
28345	1005434172		NOVEL PHARMACEUTICAL INC	6 E.V. HOGAN DR	A, NE, 1/2 - 1	HAMLET	NC	SSTS
28345	1004546863	110011808767	NOVEL PHARMACEUTICAL INC	6 E.V. HOGAN DRIVE	A, NE, 1/2 - 1	HAMLET	NC	FINDS
28345	1005434173		NOVEL PHARMACEUTICAL, INC.	6 E.V. HOGAN DRIVE	A, NE, 1/2 - 1	HAMLET	NC	SSTS
28345	A100187780	77023	SEABOARD COASTLINE RR COHAMLET Y	NC HWY 177 N		HAMLET	NC	AST
28345	U001201796	0-024478	MINIT SHOP	1805 HYLAN AVENUE		HAMLET	NC	UST
28345	1007704767	110018613605	MINIT SHOP	1805 HYLAN AVENUE		HAMLET	NC	FINDS
28345	1012119856	110039008837	ROCKINGHAM STAINLESS STEEL CO	HYLAND DR EXT	**	HAMLET	NC	FINDS
28345	U001198556	0-019349	EAST HAMLET GROCERY	500 KING ST		HAMLET	NC	UST
28345	U001198535	0-019327	HAMLET FOOD MART	500 KING STREET		HAMLET	NC	UST
28345	1007702172	110018587652	WEST HAMLET GROCERY	500 KING STREET		HAMLET	NC	FINDS
28345	U003295266	0-019095	NORTHSIDE CIRCLE B	700 KING STREET		HAMLET	NC	UST
28345	1007693976	110018505544	NORTHSIDE CIRLCE B	700 KING STREET		HAMLET	NC	FINDS
28345	U001198163	0-018791	BELLSOUTH HMLTNCMA 21812	401 LACKEY ST		HAMLET	NC	UST
28345	1007698492	110018550799	SOUTHERN BELL-GLC 21812	401 LACKEY STREET		HAMLET	NC	FINDS
28345	1007714667	110018712730	HAMLET WATER SYSTEM	203 LAKESIDE DRIVE		HAMLET	NC	FINDS
28345	U003562716	0-018087	SYSTEM ROADWAY SHOP	LAKESIDE DRIVE		HAMLET	NC	UST
28345	U003563413	0-033962	NC ARMY NATIONAL GUARD ARMORY	LAKESIDE DRIVE		HAMLET	NC	UST
28345	1007727501	110018841468	SYSTEM ROADWAY SHOP	LAKESIDE DRIVE		HAMLET	NC	FINDS
28345	S105764379	16750	NCNG ARMORY-HAMLET	LAKESIDE DRIVE	**	HAMLET	NC	IMD, LUST
28345	1007723107	110018797453	CITY OF HAMLET	LAKESIDE DRIVE STATE ROAD 1608	**	HAMLET	NC	FINDS
28345	U003142768	0-002401	LEGION ROAD CITGO SERV CTR	3911 LEGION ROAD		HOPE MILLS	NC	UST
28345	1005835457	110010620033	CHARLIE'S AUCTION WATER SYS	441 LEWIS BREEDEN BLVD		HAMLET	NC	FINDS
28345	1011583989		CHARLIE'S AUCTION WATER SYS	441 LEWIS BREEDEN BLVD HAMLET NC	**	HAMLET	NC	ICIS
28345	1007713649	110018702493	CHARLIE S ACTION	441 LEWIS BREEDEN BOULEVARD	**	HAMLET	NC	FINDS
28345	1007719549	110018761767	EVA S COUNTRY STORE	886 LOUIS BREEDEN BOULEVARD		HAMLET	NC	FINDS
28345	1000107429	110004027231	L & L CLEANERS OF HAMLET INC	100 MAIN ST		HAMLET	NC	RCRA-NonGen, FINDS
28345	U003145390	0-019864	L & L CLEANERS OF HAMLET INC	100 MAIN ST		HAMLET	NC	UST
28345	U003091820	0-019338	ARLO'S BP	106 MAIN ST		HAMLET	NC	UST
28345	S110051961		ARLO'S TEXACO	106 MAIN STREET	**	HAMLET	NC	LUST
28345	1007694128	110018507061	ARLO S BP	106 MAIN STREET	**	HAMLET	NC	FINDS
28345	U003008039	0-028646	CLEWIS SERVICE CENTER	400 MAIN STREET		HAMLET	NC	UST
28345	1007705295	110018618897	CLEWIS SERVICE CENTER	400 MAIN STREET		HAMLET	NC	FINDS
28345	U003369562	0-019330	SAS FOOD MART	500 EAST MAIN STREET		HAMLET	NC	UST
28345	S105516904	86259	CSX-HAMLET TRAIN DEPOT	MAIN STREET	**	HAMLET	NC	IMD
28345	U001198105	0-018728	PIXIE PANTRY	600 MARBORO RD		HAMLET	NC	UST
28345	1007724491	110018811320	PIXIE PANTRY	600 MARBORO ROAD	**	HAMLET	NC	FINDS
28345	1008392453	110022563386	ALPHA PLASTICS DIVISION	106 MARKS CREEK LN		HAMLET	NC	FINDS
28345	1000461568	110000349926	APG MERIDIAN INC	167 MARKS CREEK LN		HAMLET	NC	RCRA-CESQG, FINDS
28345	1007713644	110018702420	MARK S CREEK PRESBYTERIAN CH	MARKS CREEK CHURCH ROAD	**	HAMLET	NC	FINDS
28345	1007703070	110018596615	CONVENIENCE CORNER OF HAMLET	801 MARLBORO STREET		HAMLET	NC	FINDS
28345	U003145251	0-018869	CONVENIENCE CORNER OF HAMLET	801 MARLBORO STREET		HAMLET	NC	UST
28345	1008309836	110022010367	HAMLET JUNIOR HIGH	1406 MCDONALD AVE		HAMLET	NC	FINDS
28345	1012119406	110039008169	PINECROFTS IND	7 MCDONALD AVE		HAMLET	NC	FINDS
28345	1000238936	110007659694	ALPHA PLASTICS	2 MILES SOUTH ON RT 177	**	HAMLET	NC	RCRA-NonGen, FINDS
28345	1001202620	110004053023	COVINGTON'S BODY SHOP	584 MILL RD		HAMLET	NC	RCRA-CESQG, FINDS
28345	U003146452	0-027813	MONROE AVENUE ELEMENTARY SCHO	400 MONROE AVENUE		HAMLET	NC	UST
28345	1007723842	110018804819	MONROE AVENUE ELEMENTARY SCHOOI	400 MONROE AVENUE		HAMLET	NC	FINDS
28345	S105593293		TARTAN MARINE	S NC HIGHWAY 177	**	HAMLET	NC	BROWNFIELDS
28345	1009450182	110024773609	TARTAN MARINE	SOUTH NC HIGHWAY 177	**	HAMLET	NC	FINDS
28345	96477135		210 OAK RIDGE CHURCH ROAD & FREEM	210 OAK RIDGE CHURCH ROAD & FREEM	**	HAMLET	NC	ERNS
28345	96481672		210 OAK RIDGE CHURCH ROAD & FREEM	210 OAK RIDGE CHURCH ROAD & FREEM	**	HAMLET	NC	ERNS
28345	S101522776	5763	CITY OF HAMLET PUB.SERV.DEPT.	1000 OAKHURST AVE.		HAMLET	NC	IMD, LUST
28345	U001204449	0-028931	CITY OF HAMLET	1000 OAKHURST STREET		HAMLET	NC	UST
28345	S103240217	P0337	HAMLET TOWN OF	OFF U.S 74	**	HAMLET	NC	HIST LF, SWF/LF
28345	1007203457	NCT003459336	UNITED MERCHANTS AND MANUFACTUR	OLD FORT	**	UNKNOWN	NC	RCRAInfo-LQG
28345	1007695400	110018519815	HAMLET POP	102-104 RAILROAD STREET		HAMLET	NC	FINDS
28345	S110303198		SPRINT HAMLET SWITCH FACILITY	102-104 RAILROAD STREET		HAMLET	NC	LUST
28345	U001200222	0-021990	HAMLET POP	102-104 RAILROAD STREET		HAMLET	NC	UST
28345	1007718366	110018749871	BALLARD DIS CO.	101 RALEIGH ST.		HAMLET	NC	FINDS
28345	U001199051	0-019988	BALLARD DIS CO.	101 RALEIGH ST.		HAMLET	NC	UST
28345	U001200255	0-022035	PANTRY 284	RALEIGH / SPRING STREET		HAMLET	NC	IMD, LUST, UST
28345	S103130161	7951	CSX, OLD FREIGHT TRANSFER	RALEIGH ST	**	HAMLET	NC	IMD, LUST
28345	U001197589	0-018083	OLD FREIGHT TRANSFER	RALEIGH STREET	**	HAMLET	NC	UST
28345	1007725174	110018818145	PANTRY #284	RALEIGH STREET AND SPRING	**	HAMLET	NC	FINDS
28345	1012119801	110039008864	HAMLET HOSPITAL INC	RICE AND VANCE STREETS	**	HAMLET	NC	FINDS
28345	1011445414	110036086552	SCOTLAND EARLY COLLEGE HIGH	RICHMOND COMMUNITY COLLEGE BUS	**	HAMLET	NC	FINDS
28345	U001199608	0-021046	CC&PS, DIV. OF STATE HWY. PAT	200 RTC DR		HAMLET	NC	UST
28345	U001188422	0-003661	ALCO 13	122 E SPRING ST		HAMLET	NC	UST
28345	1007728083	110018847337	ALCO NUMBER 13	122 EAST SPRING STREET		HAMLET	NC	FINDS

EDR ZIP Code Scan Report

ZIP	EDR-ID	Facility ID	Name	Address	Map/Dir/Dist	City	State	Databases
28345	1009652712	110027381633	SPRING HILL WEYS CHURCH	289 SPRING HILL CHURCH ROAD		HAMLET	NC	FINDS
28345	1007713505	110018701056	CHURCH OF GOD OF PROPHECY	668 SPRINGHILL CHURCH ROAD		HAMLET	NC	FINDS
28345	1010505255	110032882236	RICHMOND COUNTY COMBUSTION TURB	NC SR 1825; 198 ENERGY WAY	**	HAMLET	NC	FINDS
28345	1004747117	110006071954	SEABOARD CONTAINER CLEANING	516 NORTH STATE ROUTE 177		HAMLET	NC	RCRA-NonGen, FINDS
28345	1007694348	110018509283	HAMLET RADIO TOWER	STATE ROAD 1615	**	HAMLET	NC	FINDS
28345	1012218308	110040504380	RICH MIX CONCRETE LLC	1656 E US 74 HWY	**	HAMLET	NC	FINDS
28345	1010027576	110027982066	RICH MIX CONCRETE LIMITED LIABILITY (	1656 EAST US 74 HIGHWAY	**	HAMLET	NC	FINDS
28345	1011406084	110035432010	CLARKS USED PARTS	2209 E US HWY 74		HAMLET	NC	FINDS
28345	1010786755	NCS000000854	CLARKS USED PARTS	2209 E US HWY 74		HAMLET	NC	RCRA-NonGen
28345	1004551764	110002080186	HAMLET HOSPITAL INCORPORATED	118 VANCE STREET		HAMLET	NC	FINDS
28345	U001204984	0-029836	HAMLET HOSPITAL	118 VANCE STREET		HAMLET	NC	IMD, LUST, UST
28345	1012084332	110038429876	RICHMOND COUNTY SCHOOLS	118 VANCE STREET		HAMLET	NC	FINDS
28345	1000431851	110004037809	GRAVES GARAGE INC	31 VANCE ST		HAMLET	NC	RCRAInfo-SQG, FINDS
28345	S103130682	3660	CSX-PERCOLATION PONDS	500 WATER ST.	**	HAMLET	NC	IMD

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List
National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/31/2010
Date Data Arrived at EDR: 04/02/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 07/14/2010
Next Scheduled EDR Contact: 10/25/2010
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites
A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/31/2010
Date Data Arrived at EDR: 04/02/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 07/14/2010
Next Scheduled EDR Contact: 10/25/2010
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens
Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 05/17/2010
Next Scheduled EDR Contact: 08/30/2010
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions
The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/31/2010
Date Data Arrived at EDR: 04/02/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 07/14/2010
Next Scheduled EDR Contact: 10/25/2010
Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/29/2010
Date Data Arrived at EDR: 02/09/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 62

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 07/12/2010
Next Scheduled EDR Contact: 10/11/2010
Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing
A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPAa??s Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 06/23/2009
Date Data Arrived at EDR: 01/15/2010
Date Made Active in Reports: 02/10/2010
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 07/21/2010
Next Scheduled EDR Contact: 10/25/2010
Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned
Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 06/23/2009
Date Data Arrived at EDR: 09/02/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 19

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 07/12/2010
Next Scheduled EDR Contact: 09/13/2010
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/25/2010
Date Data Arrived at EDR: 03/31/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 57

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 05/17/2010
Next Scheduled EDR Contact: 08/30/2010
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 07/09/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 07/09/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 07/09/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 07/09/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 12/20/2009
Date Data Arrived at EDR: 01/20/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 06/14/2010
Next Scheduled EDR Contact: 09/27/2010
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 12/20/2009
Date Data Arrived at EDR: 01/20/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 06/14/2010
Next Scheduled EDR Contact: 09/27/2010
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 01/22/2010
Date Made Active in Reports: 02/11/2010
Number of Days to Update: 20

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 07/09/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Annually

State- and tribal - equivalent NPL

HSDS: Hazardous Substance Disposal Site

Locations of uncontrolled and unregulated hazardous waste sites. The file includes sites on the National Priority List as well as those on the state priority list.

Date of Government Version: 04/06/2006
Date Data Arrived at EDR: 02/28/2007
Date Made Active in Reports: 04/13/2007
Number of Days to Update: 44

Source: North Carolina Center for Geographic Information and Analysis
Telephone: 919-754-6580
Last EDR Contact: 08/11/2010
Next Scheduled EDR Contact: 11/22/2010
Data Release Frequency: Biennially

State- and tribal - equivalent CERCLIS

SHWS: Inactive Hazardous Sites Inventory

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 07/08/2010
Date Data Arrived at EDR: 07/12/2010
Date Made Active in Reports: 08/05/2010
Number of Days to Update: 24

Source: Department of Environment, Health and Natural Resources
Telephone: 919-733-2801
Last EDR Contact: 06/21/2010
Next Scheduled EDR Contact: 10/04/2010
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: List of Solid Waste Facilities
Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 07/09/2010
Date Data Arrived at EDR: 07/09/2010
Date Made Active in Reports: 08/05/2010
Number of Days to Update: 27

Source: Department of Environment and Natural Resources
Telephone: 919-733-0692
Last EDR Contact: 07/09/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Semi-Annually

OLI: Old Landfill Inventory
Old landfill inventory location information. (Does not include no further action sites and other agency lead sites).

Date of Government Version: 07/08/2010
Date Data Arrived at EDR: 07/12/2010
Date Made Active in Reports: 08/05/2010
Number of Days to Update: 24

Source: Department of Environment & Natural Resources
Telephone: 919-733-4996
Last EDR Contact: 07/09/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Varies

State and tribal leaking storage tank lists

LUST: Regional UST Database
This database contains information obtained from the Regional Offices. It provides a more detailed explanation of current and historic activity for individual sites, as well as what was previously found in the Incident Management Database. Sites in this database with Incident Numbers are considered LUSTs.

Date of Government Version: 05/14/2010
Date Data Arrived at EDR: 05/19/2010
Date Made Active in Reports: 06/14/2010
Number of Days to Update: 26

Source: Department of Environment and Natural Resources
Telephone: 919-733-1308
Last EDR Contact: 05/19/2010
Next Scheduled EDR Contact: 08/30/2010
Data Release Frequency: Quarterly

LUST TRUST: State Trust Fund Database
This database contains information about claims against the State Trust Funds for reimbursements for expenses incurred while remediating Leaking USTs.

Date of Government Version: 07/16/2010
Date Data Arrived at EDR: 07/22/2010
Date Made Active in Reports: 08/05/2010
Number of Days to Update: 14

Source: Department of Environment and Natural Resources
Telephone: 919-733-1315
Last EDR Contact: 07/22/2010
Next Scheduled EDR Contact: 11/01/2010
Data Release Frequency: Semi-Annually

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 11/04/2009
Date Data Arrived at EDR: 05/04/2010
Date Made Active in Reports: 07/07/2010
Number of Days to Update: 64

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 08/11/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/19/2010
Date Data Arrived at EDR: 05/21/2010
Date Made Active in Reports: 08/09/2010
Number of Days to Update: 80

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Semi-Annually

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 05/27/2010
Date Data Arrived at EDR: 05/28/2010
Date Made Active in Reports: 08/09/2010
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/24/2010
Date Data Arrived at EDR: 05/27/2010
Date Made Active in Reports: 08/09/2010
Number of Days to Update: 74

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 05/04/2010
Date Data Arrived at EDR: 05/05/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 22

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/03/2010
Date Data Arrived at EDR: 05/05/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 22

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/19/2009
Date Data Arrived at EDR: 02/19/2009
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 25

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Varies

State and tribal registered storage tank lists

UST: Petroleum Underground Storage Tank Database
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 04/30/2010
Date Data Arrived at EDR: 05/18/2010
Date Made Active in Reports: 06/14/2010
Number of Days to Update: 27

Source: Department of Environment and Natural Resources
Telephone: 919-733-1308
Last EDR Contact: 05/18/2010
Next Scheduled EDR Contact: 08/30/2010
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AST: AST Database
Facilities with aboveground storage tanks that have a capacity greater than 21,000 gallons.

Date of Government Version: 07/07/2010
Date Data Arrived at EDR: 07/07/2010
Date Made Active in Reports: 08/05/2010
Number of Days to Update: 29

Source: Department of Environment and Natural Resources
Telephone: 919-715-6183
Last EDR Contact: 07/07/2010
Next Scheduled EDR Contact: 10/11/2010
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 02/11/2010
Date Data Arrived at EDR: 02/11/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 60

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/19/2010
Date Data Arrived at EDR: 05/21/2010
Date Made Active in Reports: 08/09/2010
Number of Days to Update: 80

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Semi-Annually

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 05/04/2010
Date Data Arrived at EDR: 05/05/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 22

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 05/24/2010
Date Data Arrived at EDR: 05/27/2010
Date Made Active in Reports: 08/09/2010
Number of Days to Update: 74

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/19/2009
Date Data Arrived at EDR: 02/19/2009
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 25

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/01/2008
Date Data Arrived at EDR: 12/30/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 76

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 08/11/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 05/27/2010
Date Data Arrived at EDR: 05/28/2010
Date Made Active in Reports: 08/09/2010
Number of Days to Update: 73

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/03/2010
Date Data Arrived at EDR: 05/05/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 22

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Semi-Annually

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/19/2010
Next Scheduled EDR Contact: 11/01/2010
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

INST CONTROL: No Further Action Sites With Land Use Restrictions Monitoring
A land use restricted site is a property where there are limits or requirements on future use of the property due to varying levels of cleanup possible, practical, or necessary at the site.

Date of Government Version: 06/29/2010
Date Data Arrived at EDR: 07/06/2010
Date Made Active in Reports: 08/05/2010
Number of Days to Update: 30

Source: Department of Environment, Health and Natural Resources
Telephone: 919-733-2801
Last EDR Contact: 06/21/2010
Next Scheduled EDR Contact: 10/04/2010
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Responsible Party Voluntary Action Sites
Responsible Party Voluntary Action site locations.

Date of Government Version: 06/29/2010
Date Data Arrived at EDR: 07/06/2010
Date Made Active in Reports: 08/05/2010
Number of Days to Update: 30

Source: Department of Environment and Natural Resources
Telephone: 919-733-4996
Last EDR Contact: 06/21/2010
Next Scheduled EDR Contact: 10/04/2010
Data Release Frequency: Semi-Annually

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 04/02/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 07/08/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Projects Inventory
A brownfield site is an abandoned, idled, or underused property where the threat of environmental contamination has hindered its redevelopment. All of the sites in the inventory are working toward a brownfield agreement for cleanup and liabitliy control.

Date of Government Version: 09/30/2009
Date Data Arrived at EDR: 07/21/2010
Date Made Active in Reports: 08/05/2010
Number of Days to Update: 15

Source: Department of Environment and Natural Resources
Telephone: 919-733-4996
Last EDR Contact: 07/13/2010
Next Scheduled EDR Contact: 10/25/2010
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 03/02/2010
Date Data Arrived at EDR: 03/23/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 55

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/25/2010
Next Scheduled EDR Contact: 10/11/2010
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/28/2010
Next Scheduled EDR Contact: 09/20/2010
Data Release Frequency: Varies

HIST LF: Solid Waste Facility Listing
A listing of solid waste facilities.

Date of Government Version: 11/06/2006
Date Data Arrived at EDR: 02/13/2007
Date Made Active in Reports: 03/02/2007
Number of Days to Update: 17

Source: Department of Environment & Natural Resources
Telephone: 919-733-0692
Last EDR Contact: 01/19/2009
Next Scheduled EDR Contact: 04/19/2009
Data Release Frequency: Quarterly

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 08/19/2009
Date Data Arrived at EDR: 12/29/2009
Date Made Active in Reports: 02/10/2010
Number of Days to Update: 43

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/08/2010
Next Scheduled EDR Contact: 09/20/2010
Data Release Frequency: Quarterly

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 05/06/2010
Date Data Arrived at EDR: 05/11/2010
Date Made Active in Reports: 08/09/2010
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/24/2010
Next Scheduled EDR Contact: 09/06/2010
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 04/06/2010
Date Data Arrived at EDR: 04/07/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 50

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 07/09/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Annually

Other Ascertainable Records

RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 07/09/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/12/2010
Date Data Arrived at EDR: 02/09/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 62

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/11/2010
Next Scheduled EDR Contact: 11/22/2010
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 703-692-8801
Last EDR Contact: 07/22/2010
Next Scheduled EDR Contact: 11/01/2010
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 09/30/2009
Date Made Active in Reports: 12/01/2009
Number of Days to Update: 62

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 06/16/2010
Next Scheduled EDR Contact: 09/27/2010
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 04/11/2010
Date Data Arrived at EDR: 04/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 28

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/08/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/29/2010
Date Data Arrived at EDR: 05/07/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 20

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/16/2010
Next Scheduled EDR Contact: 09/27/2010
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 01/05/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 05/08/2009
Number of Days to Update: 1

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 06/01/2010
Next Scheduled EDR Contact: 09/13/2010
Data Release Frequency: Varies

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/12/2010
Date Data Arrived at EDR: 03/10/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 68

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 06/09/2010
Next Scheduled EDR Contact: 09/20/2010
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 01/13/2010
Date Made Active in Reports: 02/18/2010
Number of Days to Update: 36

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 06/04/2010
Next Scheduled EDR Contact: 09/13/2010
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 07/07/2010
Next Scheduled EDR Contact: 10/11/2010
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 06/01/2010
Next Scheduled EDR Contact: 09/13/2010
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 06/01/2010
Next Scheduled EDR Contact: 09/13/2010
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 01/06/2010
Date Made Active in Reports: 02/10/2010
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 08/03/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 04/24/2010
Date Data Arrived at EDR: 04/29/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 18

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 06/25/2010
Next Scheduled EDR Contact: 10/11/2010
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 02/01/2010
Date Data Arrived at EDR: 04/22/2010
Date Made Active in Reports: 08/09/2010
Number of Days to Update: 109

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/30/2010
Next Scheduled EDR Contact: 11/01/2010
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/18/2010
Date Data Arrived at EDR: 04/06/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 51

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 06/14/2010
Next Scheduled EDR Contact: 09/27/2010
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/13/2010
Date Data Arrived at EDR: 07/14/2010
Date Made Active in Reports: 08/09/2010
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/14/2010
Next Scheduled EDR Contact: 10/25/2010
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/14/2010
Date Data Arrived at EDR: 04/16/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 41

Source: EPA
Telephone: (404) 562-9900
Last EDR Contact: 07/07/2010
Next Scheduled EDR Contact: 09/27/2010
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 02/25/2010
Date Made Active in Reports: 05/12/2010
Number of Days to Update: 76

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/25/2010
Next Scheduled EDR Contact: 09/06/2010
Data Release Frequency: Biennially

IMD: Incident Management Database

Groundwater and/or soil contamination incidents

Date of Government Version: 07/21/2006
Date Data Arrived at EDR: 08/01/2006
Date Made Active in Reports: 08/23/2006
Number of Days to Update: 22

Source: Department of Environment and Natural Resources
Telephone: 919-733-3221
Last EDR Contact: 07/09/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Quarterly

UIC: Underground Injection Wells Listing

A listing of uncerground injection wells locations.

Date of Government Version: 05/25/2010
Date Data Arrived at EDR: 05/27/2010
Date Made Active in Reports: 06/14/2010
Number of Days to Update: 18

Source: Department of Environment & Natural Resources
Telephone: 919-733-3221
Last EDR Contact: 05/17/2010
Next Scheduled EDR Contact: 08/30/2010
Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Sites

Potential and known drycleaning sites, active and abandoned, that the Drycleaning Solvent Cleanup Program has knowledge of and entered into this database.

Date of Government Version: 06/24/2010
Date Data Arrived at EDR: 07/08/2010
Date Made Active in Reports: 08/05/2010
Number of Days to Update: 28

Source: Department of Environment & Natural Resources
Telephone: 919-508-8400
Last EDR Contact: 07/08/2010
Next Scheduled EDR Contact: 10/11/2010
Data Release Frequency: Varies

NPDES: NPDES Facility Location Listing

General information regarding NPDES(National Pollutant Discharge Elimination System) permits.

Date of Government Version: 06/07/2010
Date Data Arrived at EDR: 06/09/2010
Date Made Active in Reports: 06/14/2010
Number of Days to Update: 5

Source: Department of Environment & Natural Resources
Telephone: 919-733-7015
Last EDR Contact: 08/09/2010
Next Scheduled EDR Contact: 08/23/2010
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/22/2010
Next Scheduled EDR Contact: 11/01/2010
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 02/10/2010
Date Data Arrived at EDR: 02/11/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 60

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/09/2010
Next Scheduled EDR Contact: 11/08/2010
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/22/2010
Next Scheduled EDR Contact: 11/01/2010
Data Release Frequency: N/A

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 01/01/2008
Date Data Arrived at EDR: 02/18/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 100

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 08/10/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 11/09/2009
Date Data Arrived at EDR: 12/18/2009
Date Made Active in Reports: 02/10/2010
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/14/2010
Next Scheduled EDR Contact: 09/27/2010
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 07/21/2010
Next Scheduled EDR Contact: 11/01/2010
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites

A listing of coal combustion products distribution permits issued by the Division for the treatment, storage, transportation, use and disposal of coal combustion products.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 08/04/2009
Date Made Active in Reports: 08/17/2009
Number of Days to Update: 13

Source: Department of Environment & Natural Resources
Telephone: 919-807-6359
Last EDR Contact: 08/09/2010
Next Scheduled EDR Contact: 08/23/2010
Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 08/26/2009
Date Made Active in Reports: 09/11/2009
Number of Days to Update: 16

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 06/04/2010
Next Scheduled EDR Contact: 09/06/2010
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 01/20/2010
Date Made Active in Reports: 02/05/2010
Number of Days to Update: 16

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/22/2010
Next Scheduled EDR Contact: 11/01/2010
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 04/30/2010
Date Data Arrived at EDR: 05/13/2010
Date Made Active in Reports: 06/21/2010
Number of Days to Update: 39

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/11/2010
Next Scheduled EDR Contact: 11/22/2010
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 12/01/2009
Date Made Active in Reports: 12/14/2009
Number of Days to Update: 13

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 05/24/2010
Next Scheduled EDR Contact: 09/06/2010
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 11/03/2009
Date Data Arrived at EDR: 02/12/2010
Date Made Active in Reports: 02/22/2010
Number of Days to Update: 10

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 06/01/2010
Next Scheduled EDR Contact: 09/13/2010
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/06/2010
Date Made Active in Reports: 07/26/2010
Number of Days to Update: 20

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/21/2010
Next Scheduled EDR Contact: 10/04/2010
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Facility List
Source: Department of Health & Human Services
Telephone: 919-662-4499

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Department of Environment & Natural Resources
Telephone: 919-733-2090

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

ATKINSON STREET SITE
ATKINSON STREET
HAMLET, NC 28345

TARGET PROPERTY COORDINATES

Latitude (North):	34.90730 - 34° 54' 26.3"
Longitude (West):	79.6748 - 79° 40' 29.3"
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	621069.4
UTM Y (Meters):	3863367.0
Elevation:	390 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	34079-H6 HAMLET, NC
Most Recent Revision:	2002

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

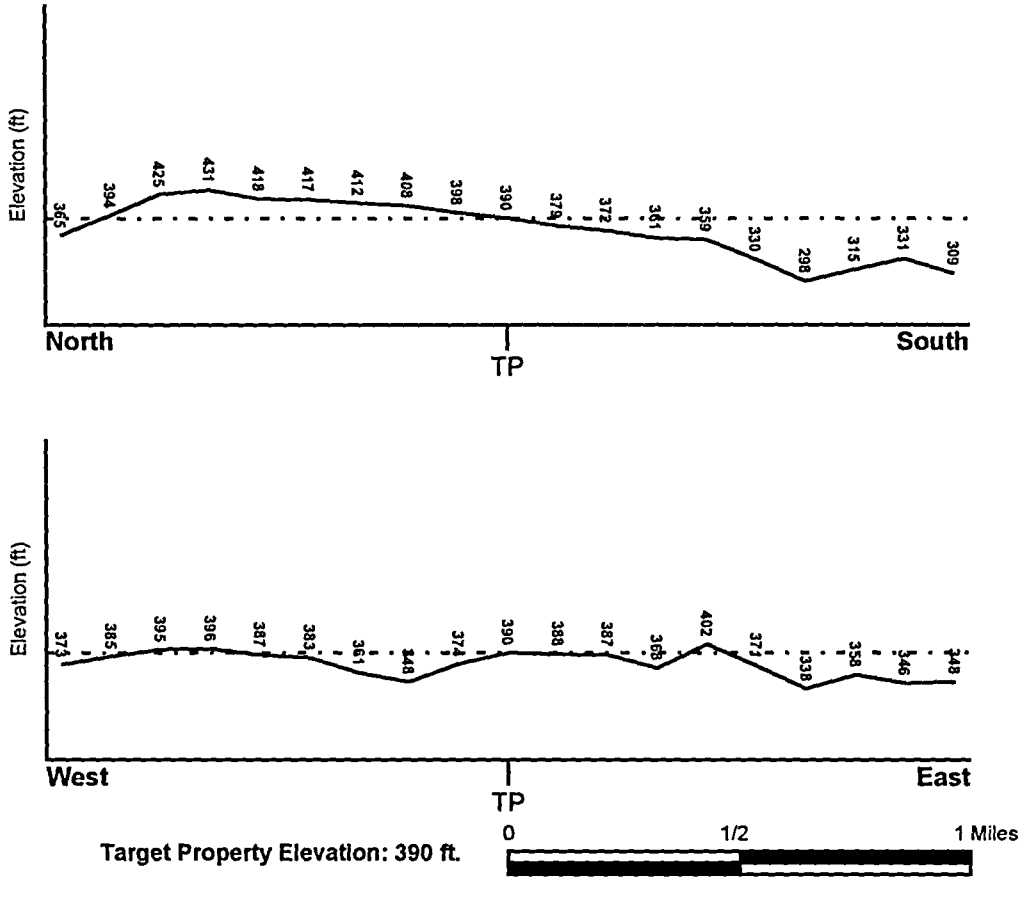
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
RICHMOND, NC	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 37153C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
HAMLET	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

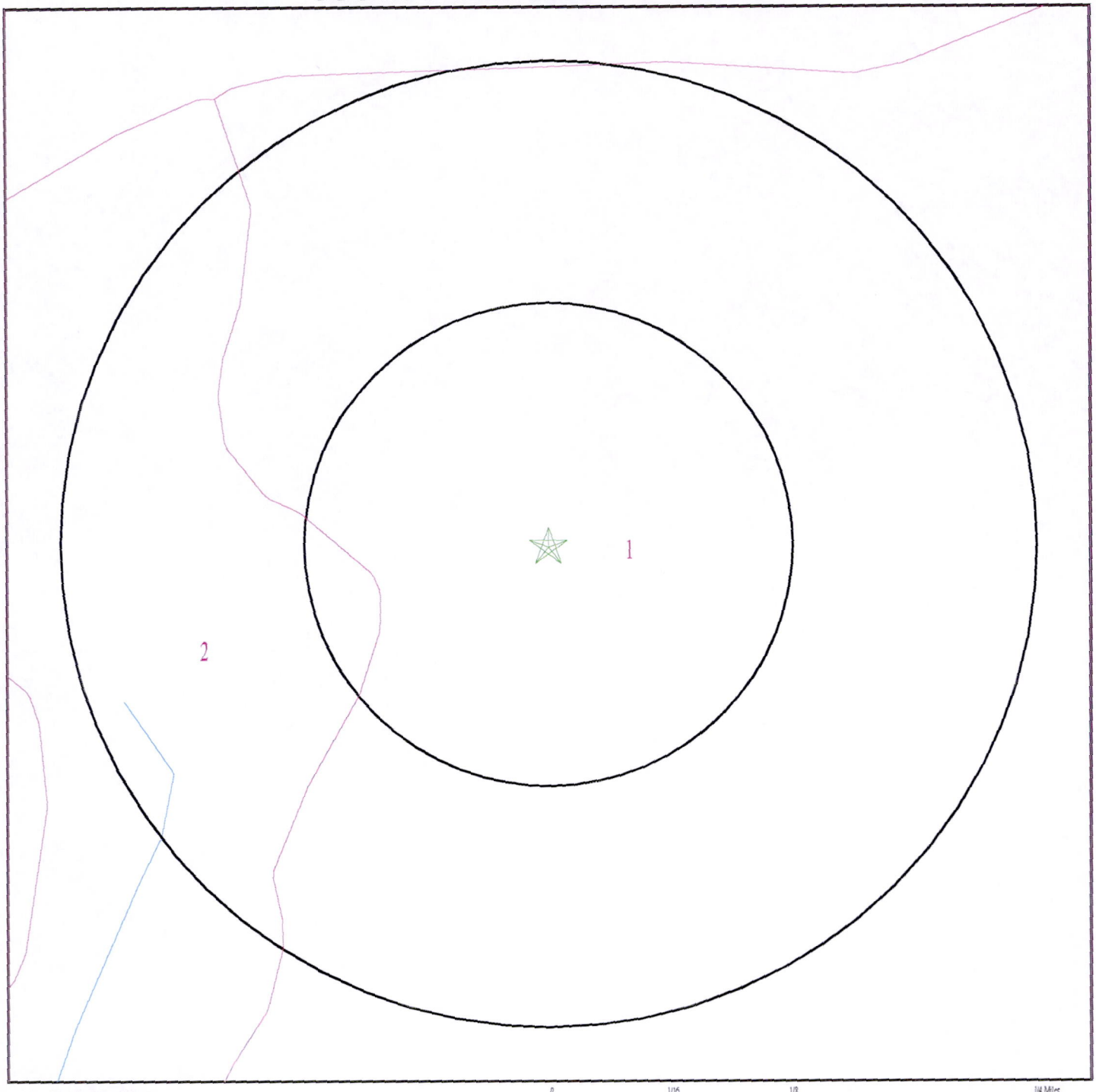
Era:	Mesozoic
System:	Cretaceous
Series:	Woodbine and Tuscaloosa Groups
Code:	uK1 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 2842105.2s



★ Target Property
SSURGO Soil
Water

SITE NAME: Atkinson Street Site ADDRESS: Atkinson Street Hamlet NC 28345 LAT/LONG: 34.9073 / 79.6748	CLIENT: S&ME CONTACT: Ed Woloszyn INQUIRY #: 2842105.2s DATE: August 11, 2010 12:55 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Wakulla

Soil Surface Texture: sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	25 inches	sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 4.5
2	25 inches	38 inches		Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 4.5
3	38 inches	85 inches		Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 4.5

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: Ailey

Soil Surface Texture: loamy sand

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	22 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 5.5 Min: 4.5
2	22 inches	30 inches	sandy clay loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 5.5 Min: 4.5
3	30 inches	53 inches	sandy clay loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 5.5 Min: 4.5
4	53 inches	61 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 5.5 Min: 4.5

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 3

Soil Component Name: Wakulla

Soil Surface Texture: sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	25 inches	sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 4.5
2	25 inches	38 inches		Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 4.5
3	38 inches	85 inches		Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 4.5

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	0.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	NC0377475	1/4 - 1/2 Mile North

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

OTHER STATE DATABASE INFORMATION

NORTH CAROLINA NATURAL HERITAGE ELEMENT OCCURRENCES

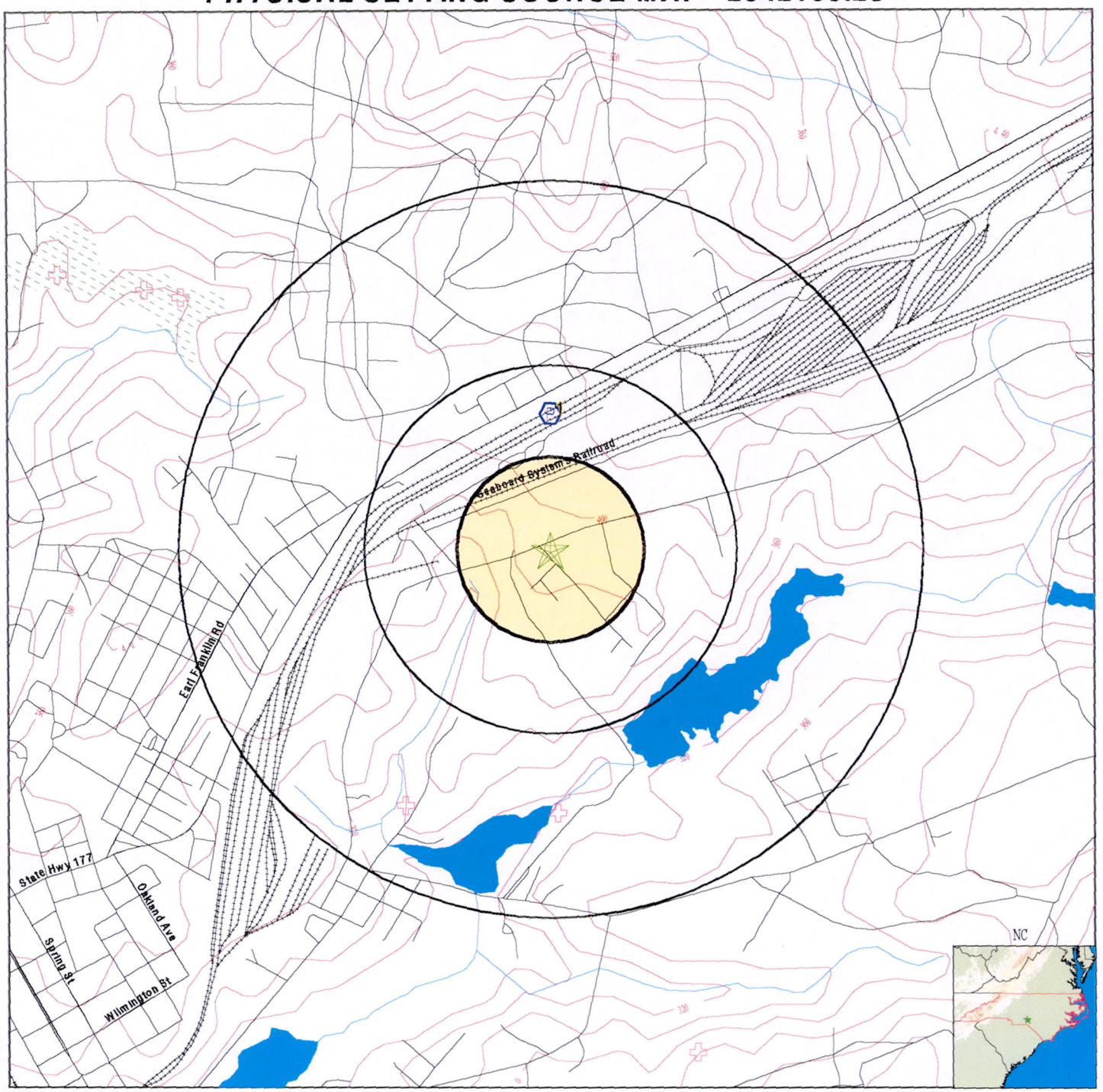
ID	Class
NC50001977	Plants
NC50005702	Animal
NC50005816	Plants
NC50006401	Plants
NC50006417	Plants
NC50007327	Plants
NC50016179	Plants
NC50017636	Plants
NC50022175	Natural Community Occurrence
NC50022372	Natural Community Occurrence

GEOCHECK - PHYSICAL SETTING SOURCE SUMMARY

NORTH CAROLINA SIGNIFICANT NATURAL HERITAGE AREAS DATABASE:

ID	Name
NC10002439	WIREGRASS ROAD POWERLINE

PHYSICAL SETTING SOURCE MAP - 2842105.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Wildlife Areas
- Natural Areas
- Rare & Endangered Species

SITE NAME:	Atkinson Street Site	CLIENT:	S&ME
ADDRESS:	Atkinson Street Hamlet NC 28345	CONTACT:	Ed Woloszyn
		INQUIRY #:	2842105.2s
LAT/LONG:	34.9073 / 79.6748	DATE:	August 11, 2010 12:55 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
1 **North** **1/4 - 1/2 Mile** **Higher**	**FRDS PWS**	**NC0377475**

PWS ID: NC0377475
Date Initiated: 7706 Date Deactivated: Not Reported
PWS Name: MCDONALDS GROCERY
HAMLET, NC 28345

Addressee / Facility: System Owner/Responsible Party
D L MCDONALD OR MGR NOW
RT 1 BOX C-19
HAMLET, NC 28345

Addressee / Facility: System Owner/Responsible Party
D L MCDONALD
RT 1 BOX C-19
HAMLET, NC 28345

Facility Latitude: 34 54 45 Facility Longitude: 079 40 30
City Served: HAMLET
Treatment Class: Untreated Population: 00000025

Violations information not reported.

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

NC_NHEO NC50001977

GIS ID: 1111613
Classification by Type: Plants
Occurrence Status: Extant

NC_NHEO NC50005702

GIS ID: 422087
Classification by Type: Animal
Occurrence Status: Extant

NC_NHEO NC50005816

GIS ID: 72778
Classification by Type: Plants
Occurrence Status: Historic, no evidence of destruction

NC_NHEO NC50006401

GIS ID: 442637
Classification by Type: Plants
Occurrence Status: Extant

NC_NHEO NC50006417

GIS ID: 41557
Classification by Type: Plants
Occurrence Status: Extant

NC_NHEO NC50007327

GIS ID: 192972
Classification by Type: Plants
Occurrence Status: Extant

NC_NHEO NC50016179

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

North Carolina Locations of Natural Heritage Element Occurrence Sites:

GIS ID:	471792
Classification by Type:	Plants
Occurrence Status:	Extant

NC_NHEO NC50017636

GIS ID:	322221
Classification by Type:	Plants
Occurrence Status:	Extant

NC_NHEO NC50022175

GIS ID:	932458
Classification by Type:	Natural Community Occurrence
Occurrence Status:	Extant

NC_NHEO NC50022372

GIS ID:	932458
Classification by Type:	Natural Community Occurrence
Occurrence Status:	Extant

NC_SNHA NC10002439

Site Name:	WIREGRASS ROAD POWERLINE
Quality:	Not Reported
Acres per Polygon:	129.43

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: NC Radon

Radon Test Results

County	Result Type	Total Sites	Avg pCi/L	Range pCi/L	Result Type
RICHMOND	Statistical	5	0.34	-0.10-1.10	Non-Statistical
RICHMOND	16	1.02	0.00-3.50		

Federal EPA Radon Zone for RICHMOND County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 28345

Number of sites tested: 2

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.050 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Department of Environment & Natural Resources
Telephone: 919-733-2090

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

North Carolina Public Water Supply Wells
Source: Department of Environmental Health
Telephone: 919-715-3243

OTHER STATE DATABASE INFORMATION

NC Natural Areas: Significant Natural Heritage Areas
Source: Center for Geographic Information and Analysis
Telephone: 919-733-2090
A polygon coverage identifying sites (terrestrial or aquatic that have particular biodiversity significance. A site's significance may be due to the presenceof rare species, rare or hight quality natural communities, or other important ecological features.

NC Game Lands: Wildlife Resources Commission Game Lands
Source: Center for Geographic Information and Analysis
Telephone: 919-733-2090
All publicly owned game lands managed by the North Carolina Wildlife Resources Commission and as listed in Hunting and Fishing Maps.

NC Natural Heritage Sites: Natural Heritage Element Occurrence Sites
Source: Center for Geographic Information and Analysis
Telephone: 919-733-2090
A point coverage identifying locations of rare and endangered species, occurrences of exemplary or unique natural ecosystems (terrestrial or aquatic), and special animal habitats (e.g., colonial waterbird nesting sites).

RADON

State Database: NC Radon
Source: Department of Environment & Natural Resources
Telephone: 919-733-4984
Radon Statistical and Non Statiscal Data

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

STREET AND ADDRESS INFORMATION

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Atkinson Street Site
Atkinson Street
Hamlet, NC 28345

Inquiry Number: 2842105.5
August 12, 2010

The EDR Aerial Photo Decade Package

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

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Date EDR Searched Historical Sources:

Aerial Photography August 12, 2010

Target Property:

Atkinson Street

Hamlet, NC 28345

Year	*Scale*	*Details*	*Source*
1958	Aerial Photograph. Scale: 1"=750'	Panel #: 34079-H6, Hamlet, NC;/Flight Date: January 01, 1958	EDR
1976	Aerial Photograph. Scale: 1"=1000'	Panel #: 34079-H6, Hamlet, NC;/Flight Date: January 19, 1976	EDR
1983	Aerial Photograph. Scale: 1"=1000'	Panel #: 34079-H6, Hamlet, NC;/Flight Date: February 08, 1983	EDR
1993	Aerial Photograph. Scale: 1"=750'	Panel #: 34079-H6, Hamlet, NC;/Flight Date: January 30, 1993	EDR
1999	Aerial Photograph. Scale: 1"=750'	Panel #: 34079-H6, Hamlet, NC;/Flight Date: February 14, 1999	EDR
2006	Aerial Photograph. Scale: 1"=604'	Panel #: 34079-H6, Hamlet, NC;/Flight Date: January 01, 2006	EDR

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YEAR: 1958
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INQUIRY #: 2842105.5
YEAR: 1976
= 1000'
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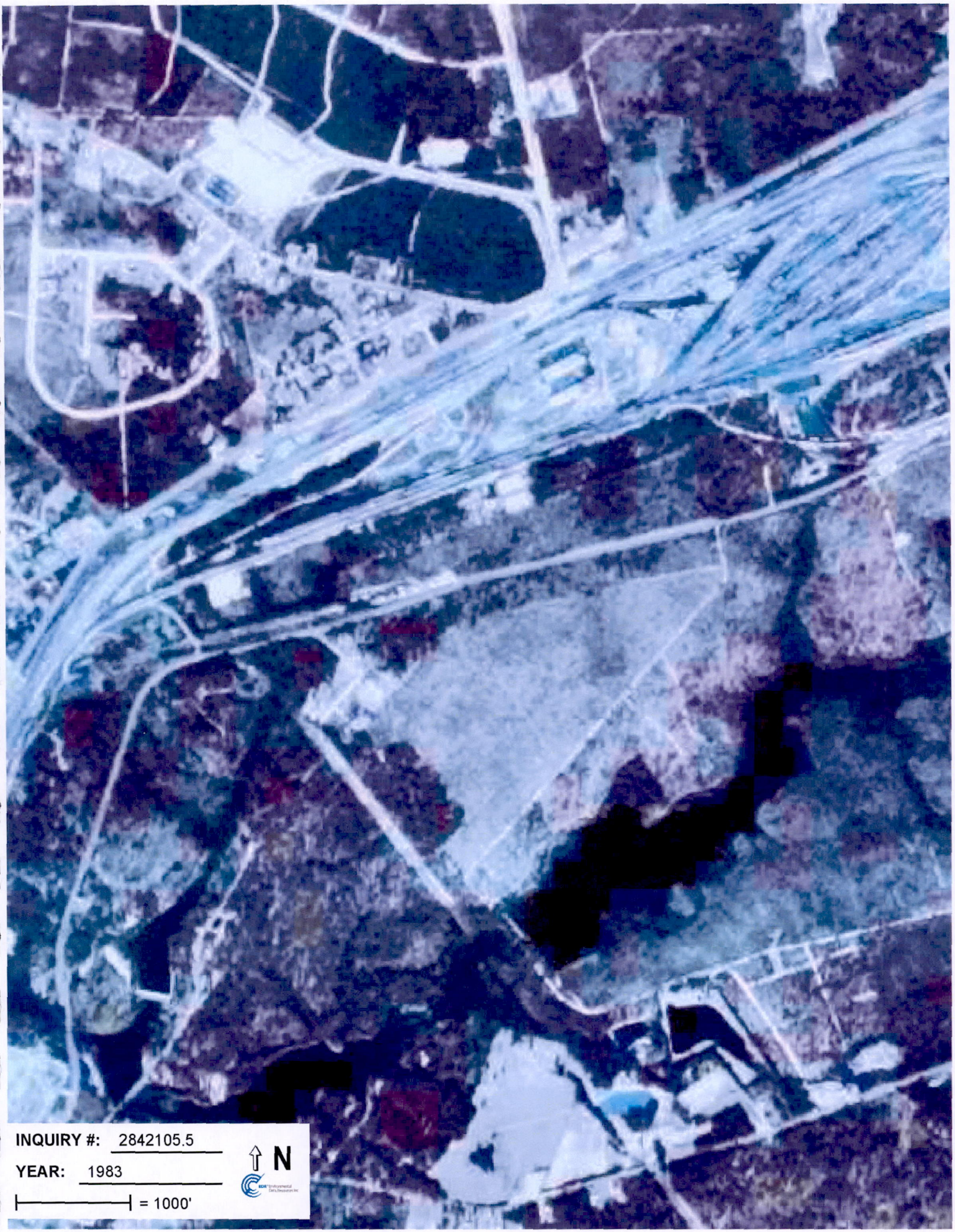
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YEAR: 1993
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INQUIRY #: 2842105.5
YEAR: 1999
= 750'
N

INQUIRY #: 2842105.5
YEAR: 2006
= 604'
N

Atkinson Street Site
Atkinson Street
Hamlet, NC 28345

Inquiry Number: 2842105.4
August 11, 2010

EDR Historical Topographic Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

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Please contact EDR at 1-800-352-0050
with any questions or comments.

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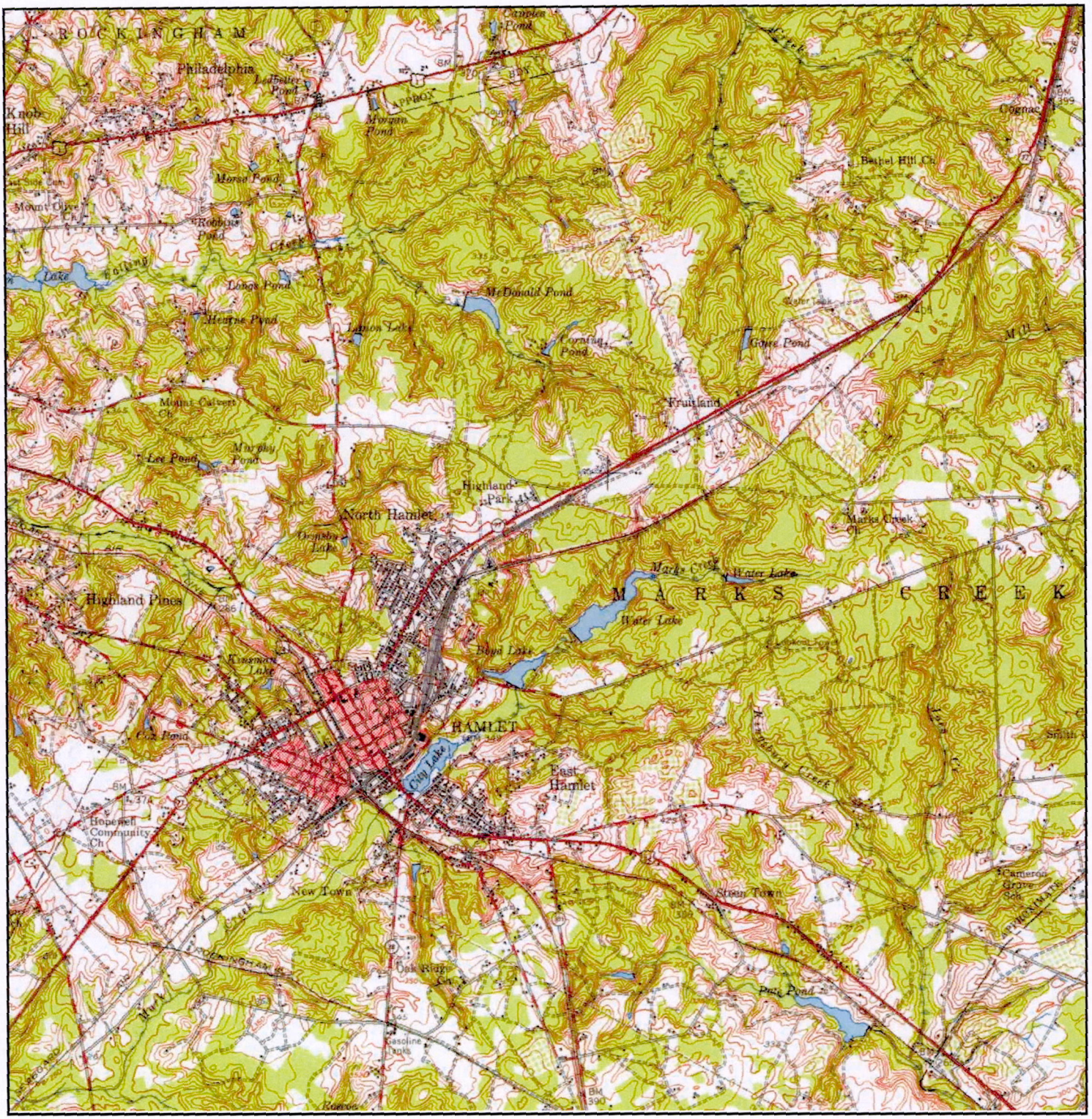
Historical Topographic Map

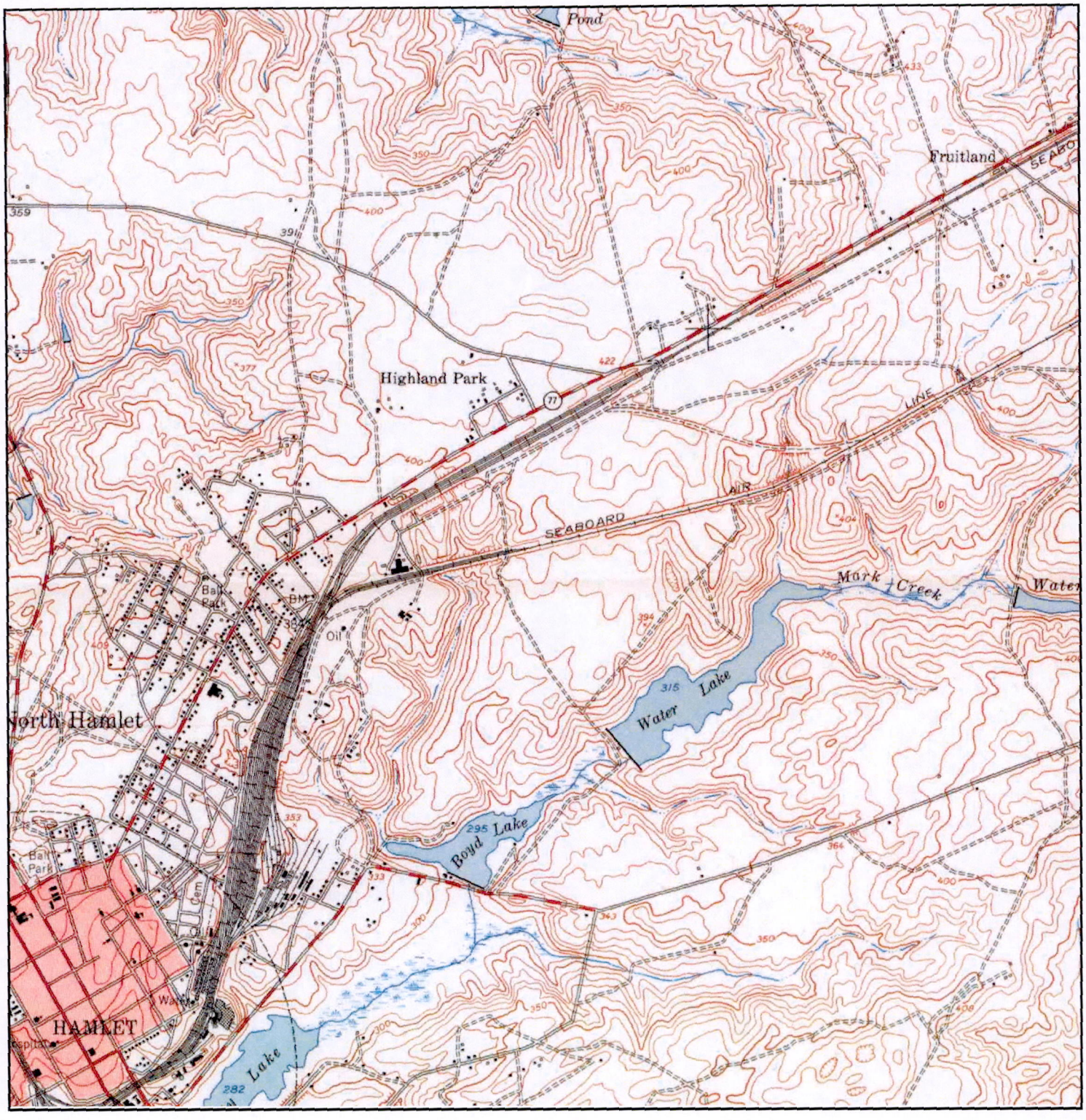
N	TARGET QUAD NAME: ROCKINGHAM MAP YEAR: 1942 SERIES: 30 SCALE: 1:125000	SITE NAME: Atkinson Street Site ADDRESS: Atkinson Street Hamlet, NC 28345 LAT/LONG: 34.9073 / -79.6748	CLIENT: S&ME CONTACT: Ed Woloszyn INQUIRY#: 2842105.4 RESEARCH DATE: 08/11/2010

Historical Topographic Map



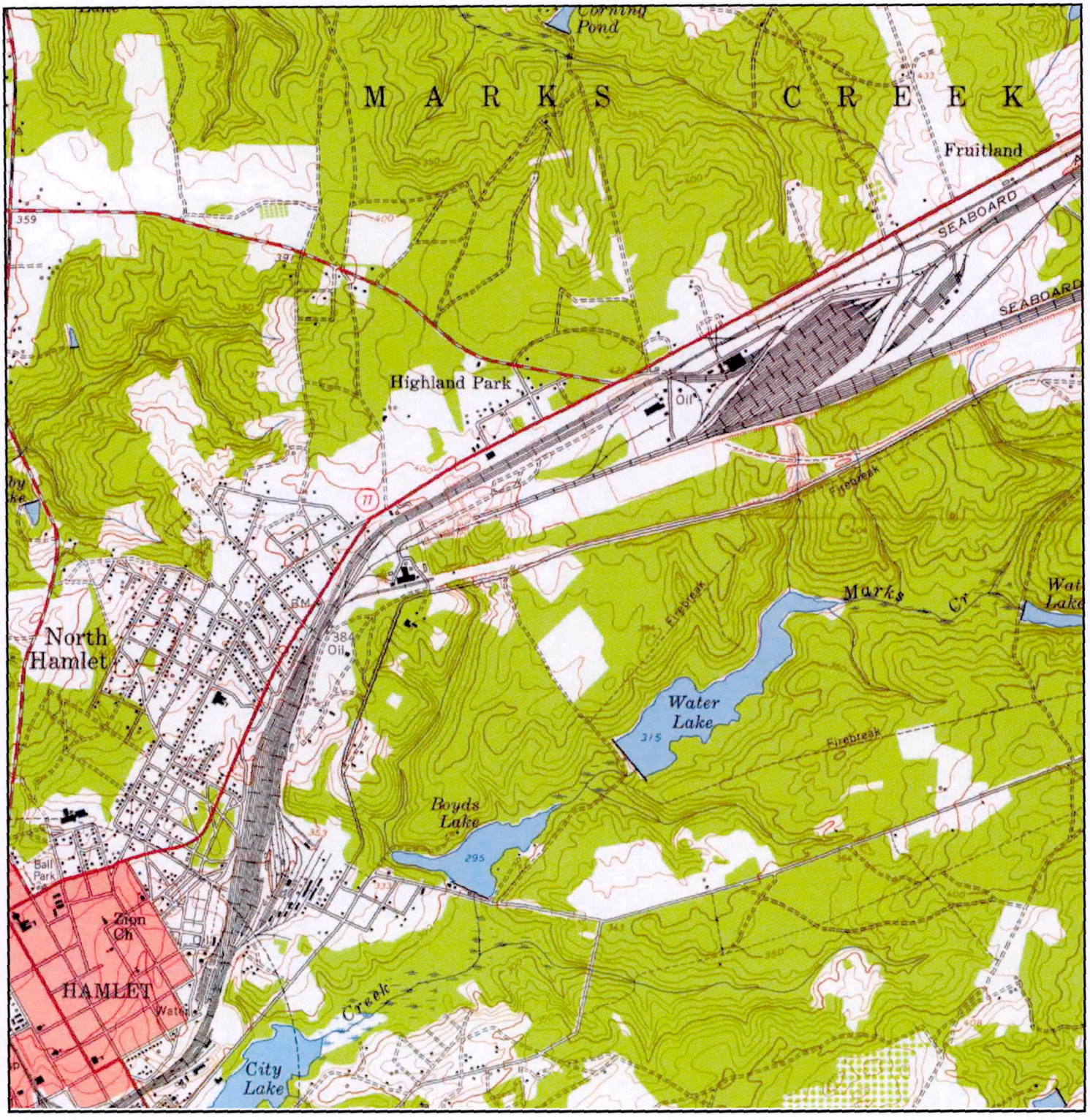
N	TARGET QUAD NAME: HAMLET MAP YEAR: 1949 SERIES: 15 SCALE: 1:62500	SITE NAME: Atkinson Street Site ADDRESS: Atkinson Street Hamlet, NC 28345 LAT/LONG: 34.9073 / -79.6748	CLIENT: S&ME CONTACT: Ed Woloszyn INQUIRY#: 2842105.4 RESEARCH DATE: 08/11/2010

Historical Topographic Map



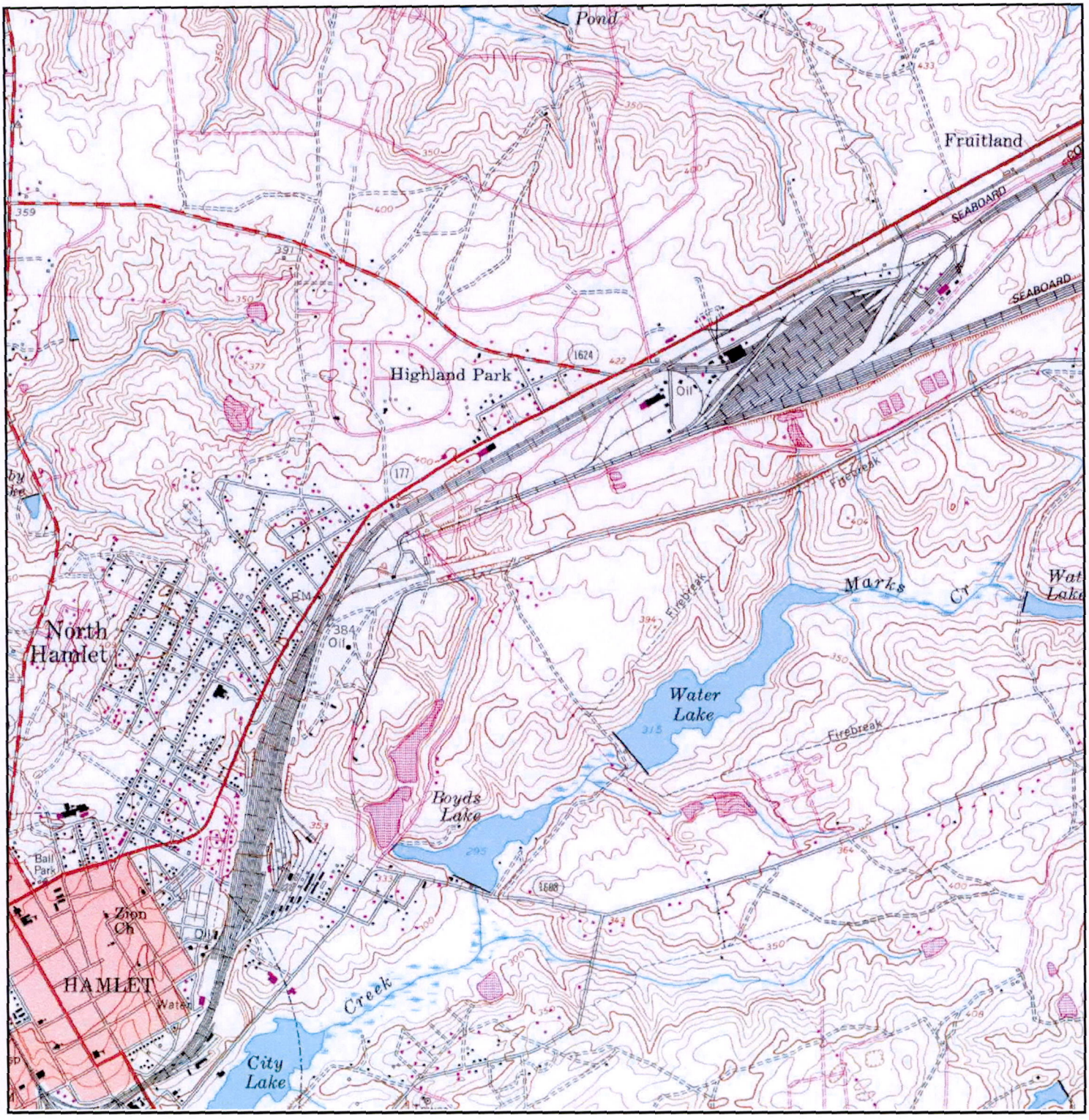
N	TARGET QUAD NAME: HAMLET MAP YEAR: 1949 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Atkinson Street Site ADDRESS: Atkinson Street Hamlet, NC 28345 LAT/LONG: 34.9073 / -79.6748	CLIENT: S&ME CONTACT: Ed Woloszyn INQUIRY#: 2842105.4 RESEARCH DATE: 08/11/2010

Historical Topographic Map



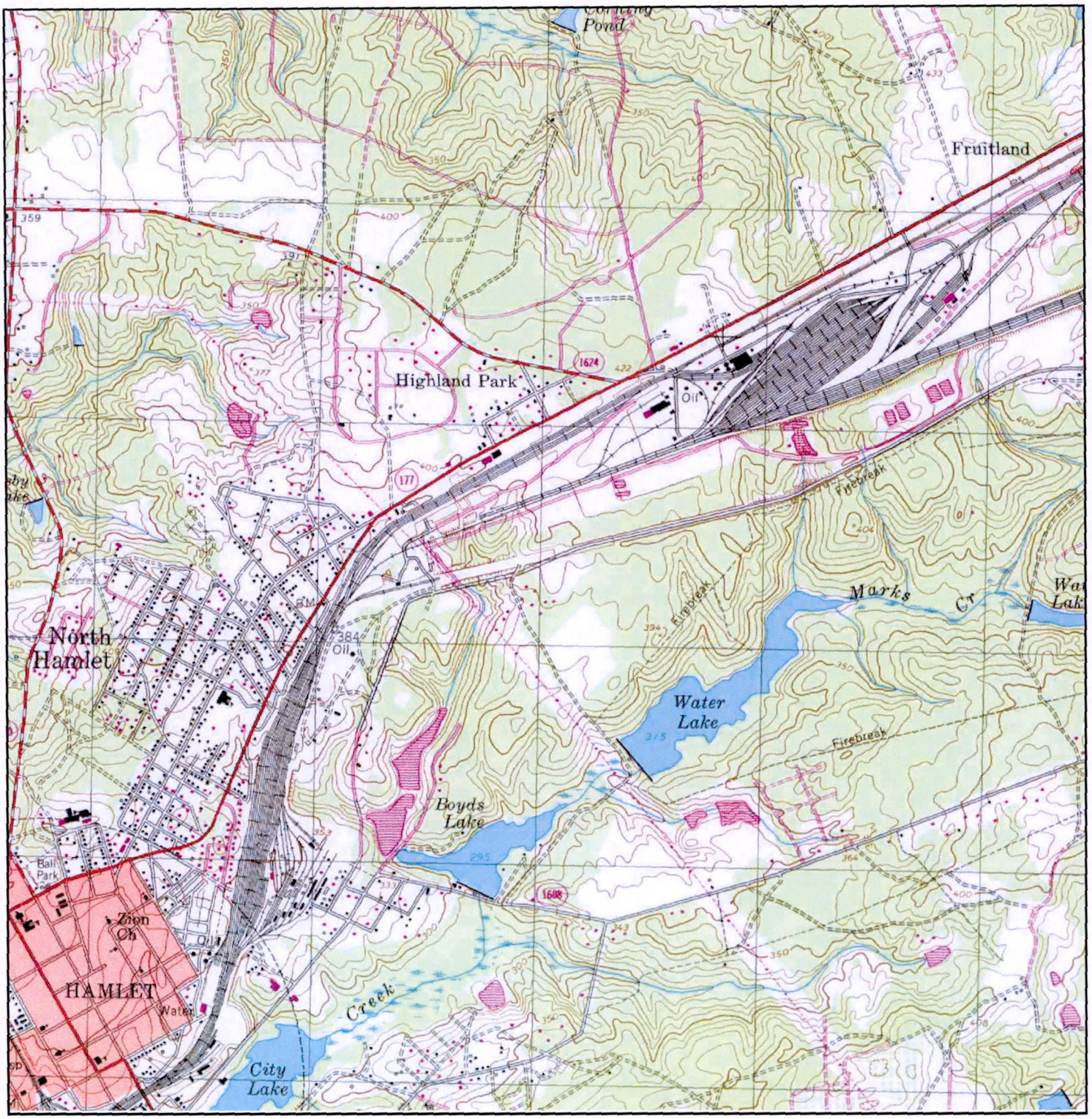
N	TARGET QUAD NAME: HAMLET MAP YEAR: 1957 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Atkinson Street Site ADDRESS: Atkinson Street Hamlet, NC 28345 LAT/LONG: 34.9073 / -79.6748	CLIENT: S&ME CONTACT: Ed Woloszyn INQUIRY#: 2842105.4 RESEARCH DATE: 08/11/2010

Historical Topographic Map



N			
	TARGET QUAD NAME: HAMLET MAP YEAR: 1982 PHOTOREVISED:1957 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Atkinson Street Site ADDRESS: Atkinson Street Hamlet, NC 28345 LAT/LONG: 34.9073 / -79.6748	CLIENT: S&ME CONTACT: Ed Woloszyn INQUIRY#: 2842105.4 RESEARCH DATE: 08/11/2010

Historical Topographic Map



N	TARGET QUAD		SITE NAME:	Atkinson Street Site	CLIENT:	S&ME
	NAME:	HAMLET	ADDRESS:	Atkinson Street	CONTACT:	Ed Woloszyn
	MAP YEAR:	2002		Hamlet, NC 28345	INQUIRY#:	2842105.4
			LAT/LONG:	34.9073 / -79.6748	RESEARCH DATE:	08/11/2010
	SERIES:	7.5				
	SCALE:	1:24000				

Atkinson Street Site
Atkinson Street
Hamlet, NC 28345

Inquiry Number: 2842105.3
August 11, 2010

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

8/11/10

Site Name:
Atkinson Street Site
Atkinson Street
Hamlet, NC 28345

EDR Inquiry # 2842105.3

Client Name:
S&ME
3201 Spring Forest Road
Raleigh, NC 27616

Contact: Ed Woloszyn

EDR® Environmental Data Resources Inc

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Certified Sanborn Results:

Site Name: Atkinson Street Site
Address: Atkinson Street
City, State, Zip: Hamlet, NC 28345
Cross Street:
P.O. # 18188
Project: 1054-10-2002
Certification # C4CF-4B71-92FC

Sanborn® Library search results
Certification # C4CF-4B71-92FC

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Groundwater Quality Summary Table

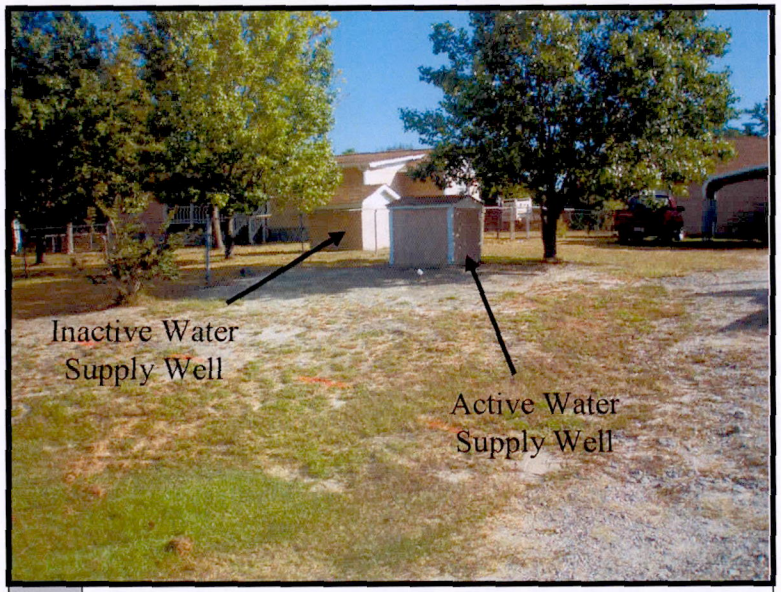
PARCEL_ID	SITE_NAME	WELL_ID	CONSTITUENT	DATE_COLLECT	VALUE	Flags	REPORT_LIMIT	UNITS	Property No.	Street	Well Screen
749204712740	Gordon Haught	WSW-1	1,1-DCE	2/15/2010	13.4			0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	1,1-DCA	2/15/2010	1.7	J		0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	Chloroform	2/15/2010	Trace			0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	Trip Blank	1,1-DCE	10/20/2009	<0.5			0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	1,1-DCE	9/22/2009	8.9			0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	1,1-DCA	9/22/2009	1.3	J		0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	Chloroform	9/22/2009	Trace			0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	Trip Blank	1,1-DCE	9/16/2010	<0.5			0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	1,1-DCE	5/7/2009	6.5			0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	1,1-DCA	5/7/2009	1.4	J		0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	Chloroform	5/7/2009	Trace			0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	Trip Blank	1,1-DCE	4/29/2009	<0.5			0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	1,1-DCE	3/30/2009	9.5			0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	1,1-DCA	3/30/2009	1.7	J		0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	Chloroform	3/30/2009	Trace			0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	1.1.1-TCA	3/30/2009	Trace			0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	1,2.-DCA	3/30/2009	Trace			0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	Trip Blank	1,1-DCE	3/25/2009	<0.5			0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	1,1-DCE	2/9/2009	7.4			0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	Methylene Chloride	2/9/2009	1.3	J,C		0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	1,1-DCA	2/9/2009	1.4	J		0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	Chloroform	2/9/2009	Trace			0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	1.1.1-TCA	2/9/2009	Trace			0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	1,2.-DCA	2/9/2009	Trace			0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	Trip Blank	1,1-DCE	11/17/2008	<0.5			0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	Trip Blank	Ethylbenzene	11/17/2008	Trace			0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	Trip Blank	Styrene	11/17/2008	0.7	J		0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	Total Coliform	11/17/2008	Absent				109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	Calcium	11/17/2008	1.9			0.01 mg/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	Fluoride	11/17/2008	0.31			0.01 mg/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	Hardness as CaCO3	11/17/2008	15			0.01 mg/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	Magnesium	11/17/2008	2.4			0.01 mg/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	Sodium	11/17/2008	6			0.01 mg/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	Nitrate as N	11/17/2008	2.95			0.01 mg/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	pH	11/17/2008	3.9			0.1 Std Units	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	1,1-DCE	10/9/2008	23.5			0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	1,1-DCA	10/9/2008	3.6			0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	Chloroform	10/9/2008	0.8	J		0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	WSW-1	1,1,1-TCA	10/9/2008	0.7	J		0.5 ug/L	109	Atkinson Street	79-89
749204712740	Gordon Haught	Trip Blank	1,1-DCE	10/8/2008	<0.5			0.5 ug/L	109	Atkinson Street	79-89
749204712434	James Butler	Well	1,1-DCE	2/15/2010	6	J		0.5 ug/L	112	Ashley Street	48-68
749204712434	James Butler	Well	1,1-DCA	2/15/2010	0.6	J		0.5 ug/L	112	Ashley Street	48-68
749204712434	James Butler	Trip Blank	1,1-DCE	10/1/2009	<0.5			0.5 ug/L	112	Ashley Street	48-68
749204712434	James Butler	Trip Blank	Styrene	10/1/2009	Trace			0.5 ug/L	112	Ashley Street	48-68
749204712434	James Butler	Well	1,1-DCE	9/24/2009	4.4			0.5 ug/L	112	Ashley Street	48-68
749204712434	James Butler	Well	1,1-DCA	9/24/2009	0.5	J		0.5 ug/L	112	Ashley Street	48-68
749204712434	James Butler	Trip Blank	1,1-DCE	9/16/2010	<0.5			0.5 ug/L	112	Ashley Street	48-68
749204712434	James Butler	Well	1,1-DCE	3/30/2009	4			0.5 ug/L	112	Ashley Street	48-68
749204712434	James Butler	Well	Methylene Chloride	3/30/2009	1.1	J,C		0.5 ug/L	112	Ashley Street	48-68
749204712434	James Butler	Well	1,1-DCA	3/30/2009	0.6	J		0.5 ug/L	112	Ashley Street	48-68
749204712434	James Butler	Well	Chloroform	3/30/2009	Trace			0.5 ug/L	112	Ashley Street	48-68
749204712434	James Butler	Well	1,2.-DCA	3/30/2009	Trace			0.5 ug/L	112	Ashley Street	48-68
749204712434	James Butler	Trip Blank	1,1-DCE	3/25/2009	<0.5			0.5 ug/L	112	Ashley Street	48-68
749204712434	James Butler	Well	1,1-DCE	2/9/2009	6.4			0.5 ug/L	112	Ashley Street	48-68
749204712434	James Butler	Well	Methylene Chloride	2/9/2009	1.7	J,C		0.5 ug/L	112	Ashley Street	48-68
749204712434	James Butler	Well	1,1-DCA	2/9/2009	0.8	J		0.5 ug/L	112	Ashley Street	48-68
749204712434	James Butler	Well	Chloroform	2/9/2009	Trace			0.5 ug/L	112	Ashley Street	48-68
749204712434	James Butler	Well	1,2.-DCA	2/9/2009	Trace			0.5 ug/L	112	Ashley Street	48-68
749204712434	James Butler	Trip Blank	1,1-DCE	11/17/2008	<0.5			0.5 ug/L	112	Ashley Street	48-68
749204712434	James Butler	Trip Blank	Ethylbenzene	11/17/2008	Trace			0.5 ug/L	112	Ashley Street	48-68
749204712434	James Butler	Trip Blank	Styrene	11/17/2008	0.7	J		0.5 ug/L	112	Ashley Street	48-68
749204713650	William A. Jernigan	Well	1,1-DCE	3/16/2010	1.6	J		0.5 ug/L	115	Atkinson Street	66-86
749204713650	William A. Jernigan	Well	1,1-DCA	3/16/2010	0.5	J		0.5 ug/L	115	Atkinson Street	66-86
749204713650	William A. Jernigan	Well	Chloroform	3/16/2010	Trace			0.5 ug/L	115	Atkinson Street	66-86
749204713650	William A. Jernigan	Well	1,2-DCA	3/16/2010	Trace			0.5 ug/L	115	Atkinson Street	66-86
749204713650	William A. Jernigan	Trip Blank	1,1-DCE	3/5/2010	<0.5			0.5 ug/L	115	Atkinson Street	66-86
749204713650	William A. Jernigan	Well	1,1-DCE	9/24/2009	0.5	J		0.5 ug/L	115	Atkinson Street	66-86
749204713650	William A. Jernigan	Well	1,1-DCA	9/24/2009	Trace			0.5 ug/L	115	Atkinson Street	66-86
749204713650	William A. Jernigan	Well	Tetrahydrofuran	9/24/2010	2.5			0.5 ug/L	115	Atkinson Street	66-86
749204713650	William A. Jernigan	Trip Blank	1,1-DCE	9/16/2010	<0.5			0.5 ug/L	115	Atkinson Street	66-86
749204713650	William A. Jernigan	Well	1,1-DCE	3/30/2009	4			0.5 ug/L	115	Atkinson Street	66-86
749204713650	William A. Jernigan	Well	Methylene Chloride	3/30/2009	1.1	J,C		0.5 ug/L	115	Atkinson Street	66-86
749204713650	William A. Jernigan	Well	1,1-DCA	3/30/2009	0.6	J		0.5 ug/L	115	Atkinson Street	66-86
749204713650	William A. Jernigan	Well	Chloroform	3/30/2009	Trace			0.5 ug/L	115	Atkinson Street	66-86
749204713650	William A. Jernigan	Well	1,2.-DCA	3/30/2009	Trace			0.5 ug/L	115	Atkinson Street	66-86
749204713650	William A. Jernigan	Trip Blank	1,1-DCE	3/25/2009	<0.5			0.5 ug/L	115	Atkinson Street	66-86
749204713650	William A. Jernigan	Well	1,1-DCE	2/9/2009	6.4			0.5 ug/L	115	Atkinson Street	66-86
749204713650	William A. Jernigan	Well	Methylene Chloride	2/9/2009	1.7	J,C		0.5 ug/L	115	Atkinson Street	66-86
749204713650	William A. Jernigan	Well	1,1-DCA	2/9/2009	0.8	J		0.5 ug/L	115	Atkinson Street	66-86
749204713650	William A. Jernigan	Well	Chloroform	2/9/2009	Trace			0.5 ug/L	115	Atkinson Street	66-86
749204713650	William A. Jernigan	Well	1,2.-DCA	2/9/2009	Trace			0.5 ug/L	115	Atkinson Street	66-86
749204713650	William A. Jernigan	Well	1,1-DCE	11/5/2008	0.8	J		0.5 ug/L	115	Atkinson Street	66-86
749204713650	William A. Jernigan	Well	1,1-DCA	11/5/2008	0.6	J		0.5 ug/L	115	Atkinson Street	66-86
749204713650	William A. Jernigan	Well	Tetrahydrofuran	11/5/2008	1.9	J		0.5 ug/L	115	Atkinson Street	66-86
749204713650	William A. Jernigan	Well	Chloroform	11/5/2008	Trace			0.5 ug/L	115	Atkinson Street	66-86
749204713650	William A. Jernigan	Well	1,2-DCA	11/5/2008	Trace			0.5 ug/L	115	Atkinson Street	66-86
749204713650	William A. Jernigan	Trip Blank	1,1-DCE	10/27/2008	<0.5			0.5 ug/L	115	Atkinson Street	66-86
749204828138	William A. Jernigan	Well	1,1-DCE	11/5/2008	<0.5			0.5 ug/L	410	Campbell Road	53-73 and 82-92
749204828138	William A. Jernigan	Trip Blank	1,1-DCE	10/29/2008	<0.5			0.5 ug/L	410	Campbell Road	53-73 and 82-92
749204911257	William Archie Jernigan	Well	1,1-DCE	11/5/2008	<0.5			0.5 ug/L	149	Lances Run	70-80
749204911257	William Archie Jernigan	Trip Blank	1,1-DCE	10/27/2008	<0.5			0.5 ug/L	149	Lances Run	70-80
749204920020	William David Goodwin	Well	1,1-DCE	11/20/2008	<0.5			0.5 ug/L	121	Justice Lane	70-80
749204920020	William David Goodwin	Trip Blank	1,1-DCE	11/17/2008	<0.5			0.5 ug/L	121	Justice Lane	70-80
749204714015	Perry Knight	Well	1,1-DCE	3/16/2010	1.8	J		0.5 ug/L	119	Orton Lane	52-72
749204714015	Perry Knight	Well	1,1-DCA	3/16/2010	0.9	J		0.5 ug/L	119	Orton Lane	52-72
749204714015	Perry Knight	Well	Chloroform	3/16/2010	Trace			0.5 ug/L	119	Orton Lane	52-72
749204714015	Perry Knight	Well	1,2-DCA	3/16/2010	Trace			0.5 ug/L	119	Orton Lane	52-72
749204714015	Perry Knight	Trip Blank	1,2-DCE	3/5/2010	<0.5			0.5 ug/L	119	Orton Lane	52-72
749204714015	Perry Knight	Trip Blank	MTBE	3/5/2010	Trace			0.5 ug/L	119	Orton Lane	52-72
749204714015	Perry Knight	Well	1,1-DCE	11/5/2008	1	J		0.5 ug/L	119	Orton Lane	52-72
749204714015	Perry Knight	Well	1,1-DCA	11/5/2008	1	J		0.5 ug/L	119	Orton Lane	52-72
749204714015	Perry Knight	Well	Chloroform	11/5/2008	Trace			0.5 ug/L	119	Orton Lane	52-72
749204714015	Perry Knight	Trip Blank	1,1-DCE	10/27/2010	<0.5			0.5 ug/L	119	Orton Lane	52-72
749204713104	Perry Knight	Well	1,1-DCE	3/16/2010	1.3	J		0.5 ug/L	113	Orton Lane	52-72
749204713104	Perry Knight	Well	1,1-DCA	3/16/2010	0.6	J		0.5 ug/L	113	Orton Lane	52-72
749204713104	Perry Knight	Well	Chloroform	3/16/2010	Trace			0.5 ug/L	113	Orton Lane	52-72
749204713104	Perry Knight	Well	1,2-DCA	3/16/2010	<0.5			0.5 ug/L	113	Orton Lane	52-72
749204713104	Perry Knight	Trip Blank	1,2-DCE	3/5/2010	<0.5			0.5 ug/L	113	Orton Lane	52-72
749204713104	Perry Knight	Trip Blank	MTBE	3/5/2010	Trace			0.5 ug/L	113	Orton Lane	52-72
749204713104	Perry Knight	Well	1,1-DCE	11/5/2008	0.8	J		0.5 ug/L	113	Orton Lane	52-72
749204713104	Perry Knight	Well	1,1-DCA	11/5/2008	0.8	J		0.5 ug/L	113	Orton Lane	52-72
749204713104	Perry Knight	Well	Tetrahydrofuran	11/5/2008	1.2			0.5 ug/L	113	Orton Lane	52-72
749204713104	Perry Knight	Well	Chloroform	11/5/2008	Trace			0.5 ug/L	113	Orton Lane	52-72
749204713104	Perry Knight	Trip Blank	1,1-DCE	10/27/2010	<0.5			0.5 ug/L	113	Orton Lane	52-72
749204816974	James Horne	Well	Chloroform	12/4/2008	0.7	J		0.5 ug/L	404	Campbell Road	70-90
749204816974	James Horne	Trip Blank	1,1-DCE	11/18/2008	<0.5			0.5 ug/L	404	Campbell Road	70-90
749204800478	Tommy Lee/Dave Davis	Well	1,1-DCE	11/5/2008	<0.5			0.5 ug/L	164	Atkinson Road	68-78

Groundwater Quality Summary Table

PARCEL_ID	SITE_NAME	WELL_ID	CONSTITUENT	DATE_COLLECT	VALUE	Flags	REPORT_LIMIT	UNITS	Property No.	Street	Well Screen
749204800478	Tommy Lee/Dave Davis	Well	MTBE	11/5/2008	Trace			0.5 ug/L	164	Atkinson Road	69-78
749204800478	Tommy Lee/Dave Davis	Well	Chloroform	11/5/2008	Trace			0.5 ug/L	164	Atkinson Road	68-78
749204807369	Elizabeth Yerly	Well	1,1-DCE	3/30/2009	<0.5			0.5 ug/L	211	Atkinson Street	70-80
749204807369	Elizabeth Yerly	Trip Blank	1,1-DCE	3/25/2009	<0.5			0.5 ug/L	211	Atkinson Street	70-80
749204805647	James Hudson	Well	1,1-DCE	3/19/2009	<0.5			0.5 ug/L	108	Amber Road	81-91
749204805647	James Hudson	Well	Chloroform	3/19/2009	Trace			0.5 ug/L	108	Amber Road	81-91
749204805647	James Hudson	Well	Toluene	3/19/2009	Trace			0.5 ug/L	109	Amber Road	81-91
749204707823	Ron Chavis	Well	1,1-DCE	11/5/2008	<0.5			0.5 ug/L	146	Atkinson Street	58-78
749204707823	Ron Chavis	Well	Chloroform	11/5/2008	0.5	J		0.5 ug/L	146	Atkinson Street	58-78
749204800478	Jimmie Johnson	Well	1,1-DCE	3/16/2010	1.2	J		0.5 ug/L	107	Atkinson Street	74-94
749204800478	Jimmie Johnson	Well	1,1-DCA	3/16/2010	0.6	J		0.5 ug/L	107	Atkinson Street	74-94
749204800478	Jimmie Johnson	Well	Chloroform	3/16/2010	Trace			0.5 ug/L	107	Atkinson Street	74-94
749204800478	Jimmie Johnson	Trip Blank	1,1-DCE	3/5/2010	<0.5			0.5 ug/L	107	Atkinson Street	74-94
749204800478	Jimmie Johnson	Trip Blank	MTBE	3/5/2010	Trace			0.5 ug/L	107	Atkinson Street	74-94
749204800478	Jimmie Johnson	Well	1,1-DCE	4/1/2009	0.8	J		0.5 ug/L	107	Atkinson Street	74-94
749204800478	Jimmie Johnson	Well	Methylene Chloride	4/1/2009	1.6	J, C		0.5 ug/L	107	Atkinson Street	74-94
749204800478	Jimmie Johnson	Well	1,1-DCA	4/1/2009	0.7	J		0.5 ug/L	107	Atkinson Street	74-94
749204800478	Jimmie Johnson	Trip Blank	1,1-DCE	3/25/2009	<0.5			0.5 ug/L	107	Atkinson Street	74-94
749204800478	Jimmie Johnson	Well	1,1-DCE	10/30/2008	0.48	J		0.5 ug/L	107	Atkinson Street	74-94
749204800478	Jimmie Johnson	Well	Methylene Chloride	10/30/2008	1.6	J, C		0.5 ug/L	107	Atkinson Street	74-94
749204800478	Jimmie Johnson	Well	1,1-DCA	10/30/2008	0.47	J		0.5 ug/L	107	Atkinson Street	74-94
749204718321	Chad Johnson	Well	1,1-DCE	3/16/2010	1.3	J		0.5 ug/L	141	Atkinson Street	74-94
749204718321	Chad Johnson	Well	1,1-DCA	3/16/2010	0.6	J		0.5 ug/L	141	Atkinson Street	74-94
749204718321	Chad Johnson	Well	Chloroform	3/16/2010	Trace			0.5 ug/L	141	Atkinson Street	74-94
749204718321	Chad Johnson	Trip Blank	MTBE	3/5/2010	Trace			0.5 ug/L	141	Atkinson Street	74-94
749204718321	Chad Johnson	Trip Blank	1,1-DCE	3/5/2010	<0.5			0.5 ug/L	141	Atkinson Street	74-94
749204718321	Chad Johnson	Well	1,1-DCE	10/30/2008	0.48			0.5 ug/L	141	Atkinson Street	74-94
749204718321	Chad Johnson	Well	1,1-DCA	10/30/2008	0.46			0.5 ug/L	141	Atkinson Street	74-94
749204719178	Wayne Johnson	Well	1,1-DCE	3/16/2010	<0.5			0.5 ug/L	127	Atkinson Street	74-94
749204719178	Wayne Johnson	Trip Blank	1,1-DCE	10/20/2009	<0.5			0.5 ug/L	127	Atkinson Street	74-94
749204719178	Wayne Johnson	Trip Blank	Ethylbenzene	10/20/2009	Trace			0.5 ug/L	127	Atkinson Street	74-94
749204719178	Wayne Johnson	Trip Blank	Styrene	10/20/2009	Trace			0.5 ug/L	127	Atkinson Street	74-94
749204719178	Wayne Johnson	Well	1,1-DCE	4/1/2009	<0.5			0.5 ug/L	127	Atkinson Street	74-94
749204719178	Wayne Johnson	Trip Blank	1,1 DCE	3/25/2009	<0.5			0.5 ug/L	127	Atkinson Street	74-94
749204719178	Wayne Johnson	Well	1,1-DCE	10/30/2008	0.6			0.5 ug/L	127	Atkinson Street	74-94
749204719178	Wayne Johnson	Well	1,1-DCA	10/30/2008	0.57			0.5 ug/L	127	Atkinson Street	74-94
CSX		MW-6	1,1-DCE	2/11/2009	2.7			1 ug/L		Campbell Road	
CSX		MW-6	1,1-DCA	2/11/2009	91			1 ug/L		Campbell Road	
CSX		MW-6	cis-1,2-DCE	2/11/2009	17			1 ug/L		Campbell Road	
CSX		MW-6	PCE	2/11/2009	1.7			1 ug/L		Campbell Road	
CSX		MW-8	Benzene	2/11/2009	24			1 ug/L		Campbell Road	
CSX		MW-8	2-Butanone	2/11/2009	1.4	J		1 ug/L		Campbell Road	
CSX		MW-8	Ethylbenzene	2/11/2009	39			1 ug/L		Campbell Road	
CSX		MW-8	Xylenes	2/11/2009	11			1 ug/L		Campbell Road	
CSX		MW-8	chloroform	2/11/2009	1			1 ug/L		Campbell Road	
CSX		MW-10	cis-1,2-DCE	2/11/2009	5			1 ug/L		Campbell Road	
CSX		MW-10	1,1-DCA	2/11/2009	19	J		1 ug/L		Campbell Road	
CSX		MW-10	1,1-DCE	2/11/2009	2.5			1 ug/L		Campbell Road	
CSX		MW-10	PCE	2/11/2009	1.2			1 ug/L		Campbell Road	
CSX		MW-10	1,1,1-TCA	2/11/2009	0.46	J		1 ug/L		Campbell Road	
CSX		MW-10	TCE	2/11/2009	3.3			1 ug/L		Campbell Road	
CSX		MW-12	Xylenes	2/11/2009	2.9			1 ug/L		Campbell Road	
CSX		MW-14	1,1-DCA	2/10/2009	1.2			1 ug/L		Campbell Road	
CSX		MW-14	1,1,1-TCA	2/10/2009	0.44	J		1 ug/L		Campbell Road	
CSX		MW-15	cis-1,2-DCE	2/10/2009	21			1 ug/L		Campbell Road	
CSX			1,1-DCA	2/10/2009	130	J		1 ug/L		Campbell Road	
CSX			1,1-DCE	2/10/2009	13			1 ug/L		Campbell Road	
CSX			Ethylbenzene	2/10/2009	16	J		1 ug/L		Campbell Road	
CSX			PCE	2/10/2009	1.5	J		1 ug/L		Campbell Road	
CSX			TCE	2/10/2009	1.7			1 ug/L		Campbell Road	
CSX			Xylenes	2/10/2009	6.8			1 ug/L		Campbell Road	
CSX		MW-16	cis-1,2-DCE	2/10/2009	0.97	J		1 ug/L		Campbell Road	
CSX			1,1-DCA	2/10/2009	11	J		1 ug/L		Campbell Road	
CSX			1,1-DCE	2/10/2009	0.54			1 ug/L		Campbell Road	
CSX			PCE	2/10/2009	2.6			1 ug/L		Campbell Road	
CSX		MW-17	cis-1,2-DCE	2/11/2009	0.35	J		1 ug/L		Campbell Road	
CSX			1,1-DCA	2/11/2009	3.2			1 ug/L		Campbell Road	
CSX		MW-21	1,1-DCA	7/2/2009	6.5	J		1 ug/L		Campbell Road	
CSX			1,1-DCE	7/2/2009	0.65	J		1 ug/L		Campbell Road	
CSX			PCE	7/2/2009	0.46	J		1 ug/L		Campbell Road	
CSX			1,1,1-TCA	7/2/2009	0.85	J		1 ug/L		Campbell Road	
CSX		MW-22	Chloroethane	7/2/2009	4.2			1 ug/L		Campbell Road	
CSX			cis-1,2-DCE	7/2/2009	2.1	J		1 ug/L		Campbell Road	
CSX			1,1-DCA	7/2/2009	14	J		1 ug/L		Campbell Road	
CSX			1,1-DCE	7/2/2009	1.1			1 ug/L		Campbell Road	
CSX			PCE	7/2/2009	0.35	J		1 ug/L		Campbell Road	
CSX			1,1,1-TCA	7/2/2009	0.95			1 ug/L		Campbell Road	
CSX		MW-23	acetone	7/2/2009	52			1 ug/L		Campbell Road	
CSX			Benzene	7/2/2009	0.67	J		1 ug/L		Campbell Road	
CSX			2-butanone	7/2/2009	6.3	J		1 ug/L		Campbell Road	
CSX			Chloroform	7/2/2009	17			1 ug/L		Campbell Road	
CSX			cis-1,2-DCE	7/2/2009	0.8	J		1 ug/L		Campbell Road	
CSX			1,1-DCA	7/2/2009	1.4	J		1 ug/L		Campbell Road	
CSX			Ethylbenzene	7/2/2009	0.73			1 ug/L		Campbell Road	
CSX			Toluene	7/2/2009	3.4	J		1 ug/L		Campbell Road	
CSX			Xylenes	7/2/2009	4.4			1 ug/L		Campbell Road	
CSX		MW-25	1,1-DCE	7/2/2009	9.2			1 ug/L		Campbell Road	
CSX		WWTP MW-:	Toluene	6/16/2009	0.57	J		1 ug/L		Campbell Road	

Appendix II

Photographic Log



1 109 Atkinson Street - Haught Residence showing the active and inactive water supply wells for the property (Facing North).

2 109 Atkinson Street - Soil sampling near the septic tank B-109-1 (Facing Northwest).

3 109 Atkinson Street - Front of the property (Facing Northwest).

4 109 Atkinson Street - Front of the property (Facing Northeast).

S&ME	Limited Soil and Groundwater Assessment Report Atkinson Site – 109 Atkinson Street, Hamlet, North Carolina	S&ME Project No. 1054-10-2002	
		Taken by: GP	Date Taken: 9/10/10-9/20/10

5 109 Atkinson Street - Soil sampling near the septic line B-109-2 (Facing Southwest).

6 109 Atkinson Street - Haught Residence water supply well sampling location (Facing Northwest).

7 115 Atkinson Street - Jernigan Residence showing the active water supply well for the property (Facing East).

8 115 Atkinson Street - Jernigan Residence showing the inactive water supply well for the property (Facing Northeast).

S&ME	Limited Soil and Groundwater Assessment Report Atkinson Site – 109 Atkinson Street, Hamlet, North Carolina	S&ME Project No. 1054-10-2002	
		Taken by: GP	Date Taken: 9/10/10-9/20/10

9 115 Atkinson Street - Jernigan Residence showing the active water supply well for the property.

10 112 Ashley Avenue - Butler Residence showing the active water supply well for the property (Facing Northwest).

11 112 Ashley Avenue - Butler Residence showing an inactive water supply well for the property (Facing Northeast).

12 Locations of CSX groundwater monitoring wells HMW-1 and HMW-2 (Facing North).

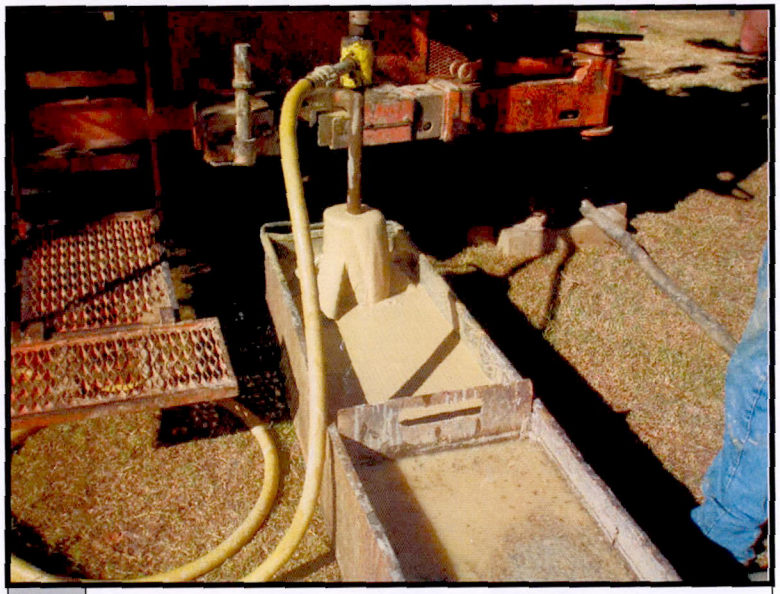
S&ME	Limited Soil and Groundwater Assessment Report Atkinson Site – 109 Atkinson Street, Hamlet, North Carolina	S&ME Project No. 1054-10-2002	
		Taken by: GP	Date Taken: 9/10/10-9/20/10

13 Location of groundwater monitoring well SMW-2 (Facing Northwest).

14 Unloading the containment box for drilling mud created during the well installation (Facing West).

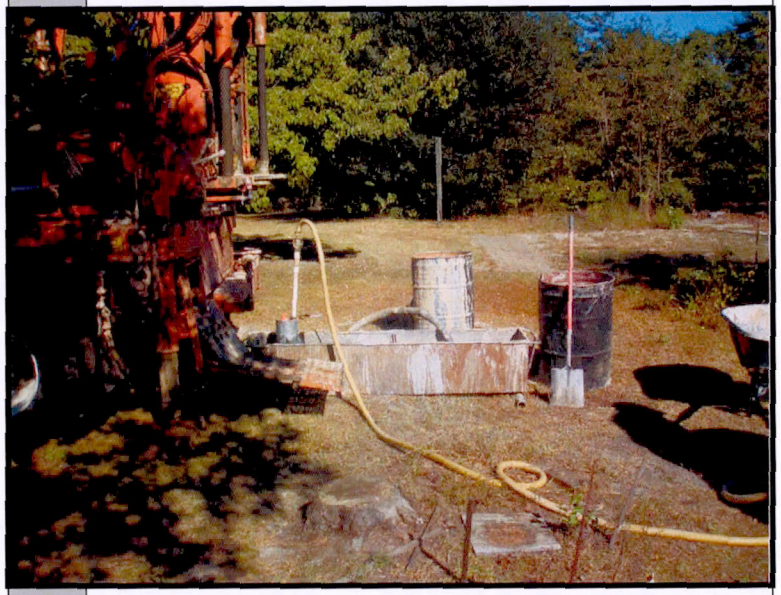
15 Drilling shallow groundwater monitoring well SMW-3 (Facing West).

16 Drilling deep groundwater monitoring well DMW-1 behind the Haught residence (Facing Southwest).



17 Close-up of mud rotary drilling of groundwater monitoring well DMW-1.

18 Close-up of mud rotary drilling of groundwater monitoring well DMW-1.



19 Groundwater monitoring well construction - Applying grout to DWM-1 (Facing Northwest).

20 Drilling groundwater monitoring well DMW-2 near the intersection of Atkinson Street and Ashley Avenue (Facing West).

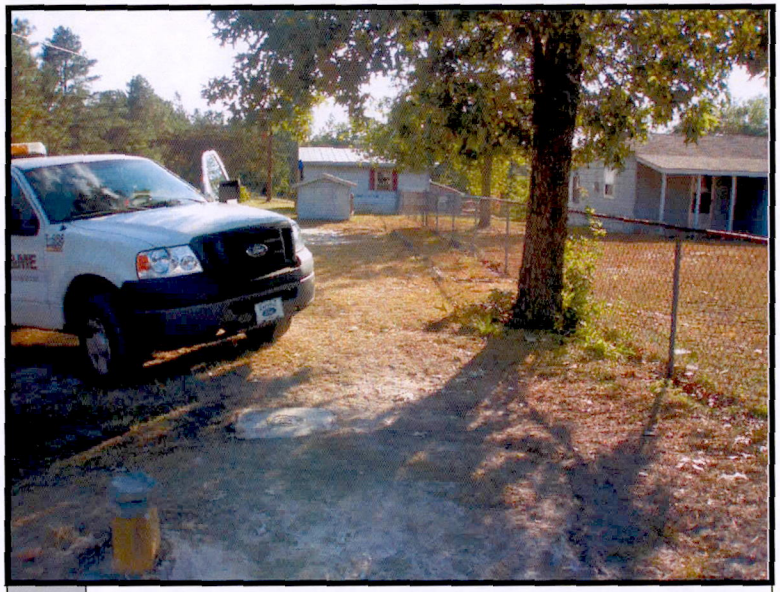
21 Drilling deep groundwater monitoring well DMW-3 behind the Butler residence - 112 Ashley Avenue (Facing West).

22 Location of deep groundwater monitoring well DMW-1 (Facing Southwest).

23 Location of deep groundwater monitoring well DMW-1 (Facing West).

24 Location of deep groundwater monitoring well DMW-2 (Facing West).

S&ME	Limited Soil and Groundwater Assessment Report Atkinson Site – 109 Atkinson Street, Hamlet, North Carolina	S&ME Project No. 1054-10-2002	
		Taken by: GP	Date Taken: 9/10/10-9/20/10



25 Location of deep groundwater monitoring well DMW-2 (Facing Southwest).

26 Location of deep groundwater monitoring well DMW-3 (Facing Northeast).

27 Location of deep groundwater monitoring well DMW-3 (Facing West).

28 Developing the newly installed deep groundwater monitoring well DMW-3.

S&ME	Limited Soil and Groundwater Assessment Report Atkinson Site – 109 Atkinson Street, Hamlet, North Carolina	S&ME Project No. 1054-10-2002	
		Taken by: GP	Date Taken: 9/10/10-9/20/10

Appendix III

Boring Logs, Well Construction Records, and Field Notes

LOG OF BORING NO. B-109-1

PROJECT:	Atkinson Street Site	APPROXIMATE ELEVATION:	Not surveyed
PROJECT NO:	1054-10-2002	BORING DEPTH (FT.):	20
PROJECT LOCATION:	Hamlet, North Carolina	LOGGED BY:	GP
DRILLING CONTRACTOR:	S&ME		
DRILLING METHOD:	4¼" H.S.A.		
DATE DRILLED:	9/10/2010		

SAMPLE NUMBER	PID (ppm)	FID (ppm)	ELEVATION (feet)	DEPTH (feet)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
				0.0			Medium tan/brown SAND	
1	0.0							
				5.0			Medium tan to red/tan clayey SAND	
2	0.0							
				10.0			Tan/ brown silty SAND fine, wet @ 16'	
3	0.0							
4	1.6			15.0			Fine white/ tan SAND	▽
							Fine tan/ grey SAND	
							Medium tan SAND	
5	2.8						Very hard grey silty CLAY	
				20.0			Boring terminated at 20' bgs	

This log is part of the report prepared for the named project and should be read together with that report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presentated is a simplification of actual conditions encountered.

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LOG OF BORING B-109-1

LOG OF BORING NO. B-109-2

PROJECT:	Atkinson Street Site	APPROXIMATE ELEVATION:	Not surveyed
PROJECT NO:	1054-10-2002	BORING DEPTH (FT.):	20
PROJECT LOCATION:	Hamlet, North Carolina	LOGGED BY:	GP
DRILLING CONTRACTOR:	S&ME		
DRILLING METHOD:	4¼" H.S.A.		
DATE DRILLED:	9/10/2010		

SAMPLE NUMBER	PID (ppm)	FID (ppm)	ELEVATION (feet)	DEPTH (feet)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
				0.0			This log is part of the report prepared for the named project and should be read together with that report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presentated is a simplification of actual conditions encountered.	
							Light grey/ tan hard silty SAND	
1	0.0							
				5.0			Medium/ fine tan silty SAND	
2	2.9							
				10.0				
3	0.0							
							Fine tan silty SAND	
4	1.7			15.0			Medium large tan SAND, wet	▽
							Tan/ grey hard fine silty CLAY, wet	
							Light brown fine silty SAND, wet	
5	1.6			20.0				

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LOG OF BORING B-109-2

LOG OF BORING NO. B-109-3

PROJECT:	Atkinson Street Site	APPROXIMATE ELEVATION:	Not surveyed
PROJECT NO:	1054-10-2002	BORING DEPTH (FT.):	20
PROJECT LOCATION:	Hamlet, North Carolina	LOGGED BY:	GP
DRILLING CONTRACTOR:	S&ME		
DRILLING METHOD:	4¼" H.S.A.		
DATE DRILLED:	9/10/2010		

SAMPLE NUMBER	PID (ppm)	FID (ppm)	ELEVATION (feet)	DEPTH (feet)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
				0.0			Fine grey silty SAND	
1	0.1						Tan to tan/orange medium silty SAND, hard @ 5'	
				5.0				
2	1.5							
				10.0				
3	2.8						Grey/ tan and red large SAND, wet @ 13'	▽
4	0.0			15.0			Grey/ red silty CLAY, very hard (dry)	
5	0.0			20.0			Boring terminated at 20' bgs	

This log is part of the report prepared for the named project and should be read together with that report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presentated is a simplification of actual conditions encountered.

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LOG OF BORING NO. B-109-4

PROJECT:	Atkinson Street Site	APPROXIMATE ELEVATION:	Not surveyed
PROJECT NO:	1054-10-2002	BORING DEPTH (FT.):	20
PROJECT LOCATION:	Hamlet, North Carolina	LOGGED BY:	GP
DRILLING CONTRACTOR:	S&ME		
DRILLING METHOD:	4¼" H.S.A.		
DATE DRILLED:	9/10/2010		

SAMPLE NUMBER	PID (ppm)	FID (ppm)	ELEVATION (feet)	DEPTH (feet)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
				0.0			Loose tan SAND	
							Tan/ orange medium silty SAND	
1	0.7							
				5.0				
2	1.1						Orange/ dark brown silty CLAY hard	
				10.0				
3	1.2						Grey silty CLAY, very hard	
							Light tan silty SAND, wet @ 15'	
4	0.8			15.0			Red/ grey silty SAND, fine - wet	▽
							Grey silty CLAY, very hard	
5	0.0			20.0			Boring terminated at 20' bgs	

This log is part of the report prepared for the named project and should be read together with that report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presentated is a simplification of actual conditions encountered.

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COMPLETION REPORT OF MONITOR WELL NO. SMW-3

PROJECT:	Atkinson Street Site	APPROXIMATE ELEVATION:	383.92
PROJECT NO:	1054-10-2002	BORING DEPTH (FT.):	21.8
PROJECT LOCATION:	Hamlet, North Carolina	LOGGED BY:	GP
DRILLING CONTRACTOR:	S&ME		
DRILLING METHOD:	4¼" H.S.A.		
DATE DRILLED:	9/13/2010		

STRATA DESCRIPTION	SYMBOL	DEPTH (feet)	WELL DETAILS	DEPTH (feet)	LEGEND	SPT (N-value)	ELEVATION (feet)	FID (ppm)	PID (ppm)
Ground Surface		0.0					383.92		
Tan/ light brown SAND (2-3" topsoil)				0.2					0.0
							378.92		
Tan/ orange silty sand (firm to 9'), fine-soft to 11', firm at 13'		5.0		6.8	CG				0.1
							373.92		
		10.0		9.8	BS				0.3
Tan fine SAND							368.92		
Tan/ white med grain SAND (wet @ 15')		15.0							0.6
							363.92		
Very hard grey silty CLAY, probe refusal @ 21.8		20.0							0.9
Boring terminated at refusal @ 21.8' bgs				21.8	FP BSC				1.9

WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type:
Interval:

OUTER CASING
Diameter:
Type:
Length:

RISER CASING
Diameter:
Type:
Interval:

GROUT
Type: **cement**
Interval: **0 - 6.8**

SEAL
Type: **bentonite**
Interval: **6.8 - 9.8**

FILTERPACK
Type: **sand**
Interval: **9.8 - 21.8**

SCREEN
Diameter: **2"**
Type: **pvc**
Interval: **11.8 - 21.8**

LEGEND
- ▽ = Water Level At Termination of Boring (TOB)
- ▼ = Water Level After ~24 Hours
- BS = Bentonite Seal
- FP = Filter Pack
- CG = Cement Grout
- BSC = Bottom of Screen
- REC = Core Recovery
- RQD = Rock Quality Designation

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COMPLETION REPORT OF MONITOR WELL NO. DMW-1

PROJECT:	Atkinson Street Site	APPROXIMATE ELEVATION:	385.28
PROJECT NO:	1054-10-2002	BORING DEPTH (FT.):	93.5
PROJECT LOCATION:	Hamlet, North Carolina	LOGGED BY:	GP
DRILLING CONTRACTOR:	S&ME		
DRILLING METHOD:	Mud Rotary		
DATE DRILLED:	9/14/2010		

STRATA DESCRIPTION	SYMBOL	DEPTH (feet)	WELL DETAILS	DEPTH (feet)	LEGEND	SPT (N-value)	ELEVATION (feet)	FID (ppm)	PID (ppm)	WELL CONSTRUCTION DETAILS
Ground Surface		0.0					385.28			PROTECTIVE CASING Diameter: Type: Interval:
Light brown med/lg grain SAND		5.0		0.2			380.28		0.0	OUTER CASING Diameter: Type: Length:
Tan silty SAND, med/ firm red at 14.5'		10.0					375.28		0.0	RISER CASING Diameter: Type: Interval:
Tan/ grey/ red med SAND to 19', then grey silty on the first CLAY layer		15.0					370.28		0.2	GROUT Type: **cement** Interval: **0-84**
Grey clayey silty SAND with brown/ red		20.0					365.28		0.0	SEAL Type: **bentonite** Interval: **84 - 86.1**
Tan/ red silty CLAY with sand		25.0					360.28		0.0	FILTERPACK Type: **sand pre-packed** Interval: **86.1 - 93.5**
Tan/ grey silty SAND to fine silty SAND		30.0					355.28		0.1	SCREEN Diameter: **2"** Type: **pvc pre-packed** Interval: **88.5 - 93.5**
		35.0					350.28		0.0	LEGEND ▽ = Water Level At Termination of Boring (TOB) ▼ = Water Level After ~24 Hours BS = Bentonite Seal FP = Filter Pack CG = Cement Grout BSC = Bottom of Screen REC = Core Recovery RQD = Rock Quality Designation

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COMPLETION REPORT
OF MONITOR WELL NO. DMW-1

COMPLETION REPORT OF MONITOR WELL NO. DMW-1

PROJECT:	Atkinson Street Site	APPROXIMATE ELEVATION:	385.28
PROJECT NO:	1054-10-2002	BORING DEPTH (FT.):	93.5
PROJECT LOCATION:	Hamlet, North Carolina	LOGGED BY:	GP
DRILLING CONTRACTOR:	S&ME		
DRILLING METHOD:	Mud Rotary		
DATE DRILLED:	9/14/2010		

STRATA DESCRIPTION	SYMBOL	DEPTH (feet)	WELL DETAILS	DEPTH (feet)	LEGEND	SPT (N-value)	ELEVATION (feet)	FID (ppm)	PID (ppm)	WELL CONSTRUCTION DETAILS
							350.28			PROTECTIVE CASING Diameter: Type: Interval:
Fine silty SAND to large sand @ 40'		35.0					345.28			OUTER CASING Diameter: Type: Length:
Large tan SAND to 43.5' then red/ tan silty SAND med grain		40.0					340.28			RISER CASING Diameter: Type: Interval:
Very hard grey silty CLAY starts @ 47' bgs		45.0					335.28			GROUT Type: **cement** Interval: **0-84**
Tan/ grey silty CLAY very hard, clayey SAND @54'-55', grey with red silty SAND @ 59'		50.0					330.28			SEAL Type: **bentonite** Interval: **84 - 86.1**
		55.0					325.28			FILTERPACK Type: **sand pre-packed** Interval: **86.1 - 93.5**
Tan/ white large grain silty SAND to tan/ pink		60.0					320.28			SCREEN Diameter: **2"** Type: **pvc pre-packed** Interval: **88.5 - 93.5**
		65.0					315.28			LEGEND ▽ = Water Level At Termination of Boring (TOB) ▼ = Water Level After ~24 Hours BS = Bentonite Seal FP = Filter Pack CG = Cement Grout BSC = Bottom of Screen REC = Core Recovery RQD = Rock Quality Designation
		70.0								

NOTES:

S&ME
ENGINEERING • TESTING
ENVIRONMENTAL SERVICES

3201 Spring Forest Road
Raleigh, NC 27616

COMPLETION REPORT
OF MONITOR WELL NO. DMW-1

COMPLETION REPORT OF MONITOR WELL NO. DMW-1

PROJECT:	Atkinson Street Site	APPROXIMATE ELEVATION:	385.28
PROJECT NO:	1054-10-2002	BORING DEPTH (FT.):	93.5
PROJECT LOCATION:	Hamlet, North Carolina	LOGGED BY:	GP
DRILLING CONTRACTOR:	S&ME		
DRILLING METHOD:	Mud Rotary		
DATE DRILLED:	9/14/2010		

STRATA DESCRIPTION	SYMBOL	DEPTH (feet)	WELL DETAILS	DEPTH (feet)	LEGEND	SPT (N-value)	ELEVATION (feet)	FID (ppm)	PID (ppm)	WELL CONSTRUCTION DETAILS
							315.28			PROTECTIVE CASING Diameter: Type: Interval:
Tan/ white large grain silty SAND to tan/ pink *(continued)*		70.0								OUTER CASING Diameter: Type: Length:
		75.0					310.28			RISER CASING Diameter: Type: Interval:
		80.0					305.28			GROUT Type: **cement** Interval: **0-84**
				84	CG		300.28			SEAL Type: **bentonite** Interval: **84 - 86.1**
		85.0		86.1	BS					FILTERPACK Type: **sand pre-packed** Interval: **86.1 - 93.5**
							295.28			SCREEN Diameter: **2"** Type: **pvc pre-packed** Interval: **88.5 - 93.5**
Very hard silty CLAY. with sand grey to pink		90.0		93.5	FP BSC					
				95						
Boring terminated at 95' bgs, cave-in to 93.5' well set										

LEGEND

- ▽ = Water Level At Termination of Boring (TOB)
- ▼ = Water Level After ~24 Hours
- BS = Bentonite Seal
- FP = Filter Pack
- CG = Cement Grout
- BSC = Bottom of Screen
- REC = Core Recovery
- RQD = Rock Quality Designation

NOTES:

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3201 Spring Forest Road
Raleigh, NC 27616

COMPLETION REPORT OF MONITOR WELL NO. DMW-2

PROJECT:	Atkinson Street Site	APPROXIMATE ELEVATION:	379.99
PROJECT NO:	1054-10-2002	BORING DEPTH (FT.):	83
PROJECT LOCATION:	Hamlet, North Carolina	LOGGED BY:	GP
DRILLING CONTRACTOR:	S&ME		
DRILLING METHOD:	Mud Rotary		
DATE DRILLED:	9/15/2010		

STRATA DESCRIPTION	SYMBOL	DEPTH (feet)	WELL DETAILS	DEPTH (feet)	LEGEND	SPT (N-value)	ELEVATION (feet)	FID (ppm)	PID (ppm)	WELL CONSTRUCTION DETAILS
Ground Surface							379.99			PROTECTIVE CASING Diameter: Type: Interval:
Light brown silty SAND w/ clay		0.0		0.2			374.99		0.0	OUTER CASING Diameter: Type: Length:
		5.0					369.99		0.0	RISER CASING Diameter: Type: Interval:
Red/ grey silty fine SAND (firm)		10.0					364.99		0.0	GROUT Type: **cement** Interval: **0 - 71**
Tan/ grey sandy SILT		15.0					359.99		0.0	SEAL Type: **bentonite** Interval: **71 - 73.5**
Grey silty CLAY, very hard										FILTERPACK Type: **sand** Interval: **73.5 - 78.5**
Tan/ light grey/ red brown silty fine SAND oxidation @~24.5', saturated		20.0					354.99		0.0	SCREEN Diameter: **2"** Type: **pvc** Interval: **78.5 - 83.5**
Light tan to light red brown silty fine SAND oxidation stain, saturated		25.0					349.99		0.0	LEGEND ▽ = Water Level At Termination of Boring (TOB) ▼ = Water Level After ~24 Hours BS = Bentonite Seal FP = Filter Pack CG = Cement Grout BSC = Bottom of Screen REC = Core Recovery RQD = Rock Quality Designation
Lt tan/ red brown fine-medium SAND, saturated		30.0					344.99		0.0	
		35.0								

NOTES:

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ENGINEERING • TESTING
ENVIRONMENTAL SERVICES
3201 Spring Forest Road
Raleigh, NC 27616

COMPLETION REPORT OF MONITOR WELL NO. DMW-2

PROJECT:	Atkinson Street Site	APPROXIMATE ELEVATION:	379.99
PROJECT NO:	1054-10-2002	BORING DEPTH (FT.):	83
PROJECT LOCATION:	Hamlet, North Carolina	LOGGED BY:	GP
DRILLING CONTRACTOR:	S&ME		
DRILLING METHOD:	Mud Rotary		
DATE DRILLED:	9/15/2010		

STRATA DESCRIPTION	SYMBOL	DEPTH (feet)	WELL DETAILS	DEPTH (feet)	LEGEND	SPT (N-value)	ELEVATION (feet)	FID (ppm)	PID (ppm)	WELL CONSTRUCTION DETAILS
							344.99			PROTECTIVE CASING Diameter: Type: Interval:
Lt tan/ very lt grey slightly silty fine SAND, quartz, lt pink to red silty CLAY @ 44.4'		35.0					339.99			OUTER CASING Diameter: Type: Length:
		40.0	▽ ▼				334.99			RISER CASING Diameter: Type: Interval:
Lt pink sandy silty CLAY		45.0					329.99			GROUT Type: **cement** Interval: **0 - 71** SEAL Type: **bentonite** Interval: **71 - 73.5**
Lt tan with slight non-oxide silty fine SAND		50.0					324.99			FILTERPACK Type: **sand** Interval: **73.5 - 78.5**
Lt tan fine to med silty SAND		55.0					319.99			SCREEN Diameter: **2"** Type: **pvc** Interval: **78.5 - 83.5**
		60.0					314.99			
		65.0					309.99			
		70.0								

LEGEND
▽ = Water Level At Termination of Boring (TOB)
▼ = Water Level After ~24 Hours
BS = Bentonite Seal
FP = Filter Pack
CG = Cement Grout
BSC = Bottom of Screen
REC = Core Recovery
RQD = Rock Quality Designation

NOTES:

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ENVIRONMENTAL SERVICES
3201 Spring Forest Road
Raleigh, NC 27616

COMPLETION REPORT
OF MONITOR WELL NO. DMW-2

COMPLETION REPORT OF MONITOR WELL NO. DMW-2

PROJECT:	Atkinson Street Site	APPROXIMATE ELEVATION:	379.99
PROJECT NO:	1054-10-2002	BORING DEPTH (FT.):	83
PROJECT LOCATION:	Hamlet, North Carolina	LOGGED BY:	GP
DRILLING CONTRACTOR:	S&ME		
DRILLING METHOD:	Mud Rotary		
DATE DRILLED:	9/15/2010		

STRATA DESCRIPTION	SYMBOL	DEPTH (feet)	WELL DETAILS	DEPTH (feet)	LEGEND	SPT (N-value)	ELEVATION (feet)	FID (ppm)	PID (ppm)	WELL CONSTRUCTION DETAILS
							309.99			PROTECTIVE CASING Diameter: Type: Interval:
Lt grey to tan fine silty SAND, mottled red/tan silty clay larger grain SAND @82'		70.0		71	CG					OUTER CASING Diameter: Type: Length:
				73.5	BS		304.99			
		75.0								RISER CASING Diameter: Type: Interval:
							299.99			
		80.0								GROUT Type: **cement** Interval: **0 - 71**
Very hard silty CLAY w/ large pebble size quartz, confining layer				83.5	FP					SEAL Type: **bentonite** Interval: **71 - 73.5**
Boring terminated at 85' bgs, well set at 83.5' bgs				85	BSC					FILTERPACK Type: **sand** Interval: **73.5 - 78.5**
										SCREEN Diameter: **2"** Type: **pvc** Interval: **78.5 - 83.5**

LEGEND

- ▽ = Water Level At Termination of Boring (TOB)
- ▼ = Water Level After ~24 Hours
- BS = Bentonite Seal
- FP = Filter Pack
- CG = Cement Grout
- BSC = Bottom of Screen
- REC = Core Recovery
- RQD = Rock Quality Designation

NOTES:

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3201 Spring Forest Road
Raleigh, NC 27616

COMPLETION REPORT
OF MONITOR WELL NO. DMW-2

COMPLETION REPORT OF MONITOR WELL NO. DMW-3

PROJECT:	Atkinson Street Site	APPROXIMATE ELEVATION:	367.03
PROJECT NO:	1054-10-2002	BORING DEPTH (FT.):	84
PROJECT LOCATION:	Hamlet, North Carolina	LOGGED BY:	GP
DRILLING CONTRACTOR:	S&ME		
DRILLING METHOD:	Mud Rotary		
DATE DRILLED:	9/17/2010		

STRATA DESCRIPTION	SYMBOL	DEPTH (feet)	WELL DETAILS	DEPTH (feet)	LEGEND	SPT (N-value)	ELEVATION (feet)	FID (ppm)	PID (ppm)	WELL CONSTRUCTION DETAILS
Ground Surface							367.03			PROTECTIVE CASING Diameter: Type: Interval:
Very tight grey/ tan silty CLAY		0.0		0.2						
							362.03		0.0	OUTER CASING Diameter: Type: Length:
Very fine tan/ brown silty clayey SAND		5.0								
							357.03		0.0	RISER CASING Diameter: Type: Interval:
Very fine tan/ brown silty SAND, grey silty SAND with clay @ 19.5'		10.0								GROUT Type: **cement** Interval: **0 - 71**
							352.03		0.0	SEAL Type: **bentonite** Interval: **71 - 73.5**
		15.0								FILTERPACK Type: **sand** Interval: **73.5 - 78.5**
							347.03		0.0	SCREEN Diameter: **2"** Type: **pvc** Interval: **78.5 - 83.5**
White medium grain silty SAND		20.0								
							342.03		0.0	
		25.0								
							337.03		0.0	LEGEND ▽ = Water Level At Termination of Boring (TOB) ▼ = Water Level After ~24 Hours BS = Bentonite Seal FP = Filter Pack CG = Cement Grout BSC = Bottom of Screen REC = Core Recovery RQD = Rock Quality Designation
Grey silty clayey SAND		30.0	▼							
							332.03		0.0	
Light grey silty sandy CLAY, very hard confining unit		35.0								

NOTES:

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3201 Spring Forest Road
Raleigh, NC 27616

COMPLETION REPORT OF MONITOR WELL NO. DMW-3

PROJECT:	Atkinson Street Site	APPROXIMATE ELEVATION:	367.03
PROJECT NO:	1054-10-2002	BORING DEPTH (FT.):	84
PROJECT LOCATION:	Hamlet, North Carolina	LOGGED BY:	GP
DRILLING CONTRACTOR:	S&ME		
DRILLING METHOD:	Mud Rotary		
DATE DRILLED:	9/17/2010		

STRATA DESCRIPTION	SYMBOL	DEPTH (feet)	WELL DETAILS	DEPTH (feet)	LEGEND	SPT (N-value)	ELEVATION (feet)	FID (ppm)	PID (ppm)	WELL CONSTRUCTION DETAILS
							332.03			PROTECTIVE CASING Diameter: Type: Interval:
Light grey silty sandy CLAY, very hard confining unit *(continued)*		35.0								OUTER CASING Diameter: Type: Length:
		40.0					327.03			RISER CASING Diameter: Type: Interval:
Light grey silty SAND, softer							322.03			GROUT Type: **cement** Interval: **0 - 71**
Tan to pink medium to large silty SAND		45.0					317.03			SEAL Type: **bentonite** Interval: **71 - 73.5**
		50.0								FILTERPACK Type: **sand** Interval: **73.5 - 78.5**
							312.03			SCREEN Diameter: **2"** Type: **pvc** Interval: **78.5 - 83.5**
Tan/ pink large SAND, fine-medium at 59.5'		55.0								
							307.03			
Red medium silty SAND to 64', then tan fine silty clayey SAND to 65'		60.0								LEGEND ▽ = Water Level At Termination of Boring (TOB) ▼ = Water Level After ~24 Hours BS = Bentonite Seal FP = Filter Pack CG = Cement Grout BSC = Bottom of Screen REC = Core Recovery RQD = Rock Quality Designation
							302.03			
Tan/ grey silty CLAY w/ fine sand, very dense		65.0								
							297.03			
		70.0								

NOTES:

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3201 Spring Forest Road
Raleigh, NC 27616

COMPLETION REPORT
OF MONITOR WELL NO. DMW-3

COMPLETION REPORT OF MONITOR WELL NO. DMW-3

PROJECT:	Atkinson Street Site	APPROXIMATE ELEVATION:	367.03
PROJECT NO:	1054-10-2002	BORING DEPTH (FT.):	84
PROJECT LOCATION:	Hamlet, North Carolina	LOGGED BY:	GP
DRILLING CONTRACTOR:	S&ME		
DRILLING METHOD:	Mud Rotary		
DATE DRILLED:	9/17/2010		

STRATA DESCRIPTION	SYMBOL	DEPTH (feet)	WELL DETAILS	DEPTH (feet)	LEGEND	SPT (N-value)	ELEVATION (feet)	FID (ppm)	PID (ppm)
							297.03		
Tan/ grey silty CLAY w/ fine sand, very dense *(continued)*		70.0		71	CG				
Medium tan/ red silty SAND w/ clay				73.5	BS		292.03		
Tan/ red/ light brown sandy silty CLAY, very hard, very tight		75.0							
							287.03		
		80.0							
				83.5	FP				
Boring terminated at 84' bgs, well set at 83.5' bgs				84	BSC				

WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type:
Interval:

OUTER CASING
Diameter:
Type:
Length:

RISER CASING
Diameter:
Type:
Interval:

GROUT
Type: **cement**
Interval: **0 - 71**

SEAL
Type: **bentonite**
Interval: **71 - 73.5**

FILTERPACK
Type: **sand**
Interval: **73.5 - 78.5**

SCREEN
Diameter: **2"**
Type: **pvc**
Interval: **78.5 - 83.5**

LEGEND
- ▽ = Water Level At Termination of Boring (TOB)
- ▼ = Water Level After ~24 Hours
- BS = Bentonite Seal
- FP = Filter Pack
- CG = Cement Grout
- BSC = Bottom of Screen
- REC = Core Recovery
- RQD = Rock Quality Designation

NOTES:

S&ME
ENGINEERING • TESTING
ENVIRONMENTAL SERVICES
3201 Spring Forest Road
Raleigh, NC 27616

COMPLETION REPORT
OF MONITOR WELL NO. DMW-3

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2907

1. WELL CONTRACTOR:
Tom Whitehead
Well Contractor (Individual) Name
S&ME, Inc.
Well Contractor Company Name
3201 Spring Forest Road
Street Address
Raleigh NC 27616
City or Town State Zip Code
(919) 872-2660
Area code Phone number

2. WELL INFORMATION:
WELL CONSTRUCTION PERMIT# WM0600821
OTHER ASSOCIATED PERMIT#(if applicable)
SITE WELL ID #(if applicable) SMW-3

3. WELL USE (Check One Box) Monitoring ☑ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation ☐ Other ☐ (list use)
DATE DRILLED 9/13/2010

4. WELL LOCATION:
Corner of Campbell Rd. and Atkinson Street
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)
CITY: Hamlet COUNTY Richmond
TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐Slope ☐Valley ☑Flat ☐Ridge ☐Other
LATITUDE 34 ° 54 ' 23.9700 " DMS OR 3x.xxxxxxxxx DD
LONGITUDE 79 ° 40 ' 34.3900 " DMS OR 7x.xxxxxxxxx DD
Latitude/longitude source: ☑GPS ☐Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. FACILITY (Name of the business where the well is located.)
Atkinson Site NONCD000286
Facility Name Facility ID# (if applicable)
109 Atkinson Street
Street Address
Hamlet NC 28345
City or Town State Zip Code
Mr. David Brown (NCDENR-Project Mgr.)
Contact Name
225 Green Street, Suite 714
Mailing Address
Fayetteville NC 28301
City or Town State Zip Code
(910) 433-3354
Area code Phone number

6. WELL DETAILS:
a. **TOTAL DEPTH:** 21.8
b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☑
c. **WATER LEVEL** Below Top of Casing: 15.01 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** -0.2 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.
e. **YIELD (gpm):** _____ **METHOD OF TEST** _____
f. **DISINFECTION: Type** _____ **Amount** _____
g. **WATER ZONES** (depth):
Top _____ Bottom _____ Top _____ Bottom _____
Top _____ Bottom _____ Top _____ Bottom _____
Top _____ Bottom _____ Top _____ Bottom _____

7. CASING:

Depth	Diameter	Thickness/ Weight	Material
Top -0.2 Bottom 11.8 Ft.	2"	sch 40	PVC
Top _____ Bottom _____ Ft.			
Top _____ Bottom _____ Ft.			

8. GROUT:

Depth	Material	Method
Top 6.8 Bottom 9.8 Ft.	Bentonite	Tremie
Top -0.4 Bottom 6.8 Ft.	Cement	Tremie
Top _____ Bottom _____ Ft.		

9. SCREEN:

Depth	Diameter	Slot Size	Material
Top 11.8 Bottom 21.8 Ft.	2 in.	.010 in.	PVC
Top _____ Bottom _____ Ft.	_____ in.	_____ in.	
Top _____ Bottom _____ Ft.	_____ in.	_____ in.	

10. SAND/GRAVEL PACK:

Depth	Size	Material
Top 9.8 Bottom 21.8 Ft.	#2	Silica
Top _____ Bottom _____ Ft.		
Top _____ Bottom _____ Ft.		

11. DRILLING LOG

Top / Bottom	Formation Description
0 / 5.0	Tan/lt brown sand
5.0 / 13.0	Tan/orange silty sand
13.0 / 15.0	Tan fine sand
15.0 / 19.0	Tan/white medium sand
19.0 / 21.0	Grey silty clay-very hard
/	
/	
/	
/	
/	
/	

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE: 10/25/10

Thomas W. Whitehead
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1b
Rev. 2/09

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2626

1. WELL CONTRACTOR:
Ted Miller
Well Contractor (Individual) Name
S&ME, Inc.
Well Contractor Company Name
9751 Southern Pine Boulevard
Street Address
Charlotte NC 28273
City or Town State Zip Code
(704) 523-4726
Area code Phone number

2. WELL INFORMATION:
WELL CONSTRUCTION PERMIT# WM0600821
OTHER ASSOCIATED PERMIT#(if applicable)
SITE WELL ID #(if applicable) DMW-1

3. WELL USE (Check One Box) Monitoring ☑ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation ☐ Other ☐ (list use)
DATE DRILLED 9/14/2010

4. WELL LOCATION:
Corner of Campbell Rd. and Atkinson Street
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)
CITY: Hamlet COUNTY Richmond
TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐ Slope ☐ Valley ☑ Flat ☐ Ridge ☐ Other
LATITUDE 34 ° 54 ' 25.0400 " DMS OR 3x.xxxxxxxxx DD
LONGITUDE 79 ° 40 ' 34.0000 " DMS OR 7x.xxxxxxxxx DD
Latitude/longitude source: ☑ GPS ☐ Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. FACILITY (Name of the business where the well is located.)
Atkinson Site NONCD000286
Facility Name Facility ID# (if applicable)
109 Atkinson Street
Street Address
Hamlet NC 28345
City or Town State Zip Code
Mr. David Brown (NCDENR-Project Mgr.)
Contact Name
225 Green Street, Suite 714
Mailing Address
Fayetteville NC 28301
City or Town State Zip Code
(910) 433-3354
Area code Phone number

6. WELL DETAILS:
a. **TOTAL DEPTH:** 93.5
b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☑
c. **WATER LEVEL** Below Top of Casing: 45.16 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** -0.2 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.
e. **YIELD (gpm):** _____ **METHOD OF TEST** _____
f. **DISINFECTION: Type** _____ **Amount** _____
g. **WATER ZONES** (depth):
Top _____ Bottom _____ Top _____ Bottom _____
Top _____ Bottom _____ Top _____ Bottom _____
Top _____ Bottom _____ Top _____ Bottom _____

7. CASING:

Depth			Diameter	Thickness/ Weight	Material
Top -0.2	Bottom 88.5	Ft.	2"	sch 40	PVC
Top	Bottom	Ft.			
Top	Bottom	Ft.			

8. GROUT:

Depth			Material	Method
Top 84.0	Bottom 86.1	Ft.	Bentonite	Tremie
Top -0.4	Bottom 84.0	Ft.	Cement	Tremie
Top	Bottom	Ft.		

9. SCREEN:

Depth			Diameter		Slot Size		Material
Top 88.5	Bottom 93.5	Ft.	2	in.	.010	in.	PVC
Top	Bottom	Ft.		in.		in.	pre-packed
Top	Bottom	Ft.		in.		in.	

10. SAND/GRAVEL PACK:

Depth			Size	Material
Top 86.1	Bottom 93.5	Ft.	#2	Silica pre packed
Top	Bottom	Ft.		plus additional sand
Top	Bottom	Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0	14.0	Tan silty sand - medium
14.0	19.0	Tan/grey/red medium sand
* 19.0	23.0	Grey silty clay
23.0	25.0	Grey clayey silty sand
25.0	40.0	Tan/grey fine silty sand
40.0	47.0	Tan/red silty sand Medium
* 47.0	60.0	Tan/grey silty clay very hard
60.0	65.0	Tan silty sand
65.0	93.0	Tan/white/pink lg grained sand
* 93.0	95.0	Grey hard silty clay

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

T. Miller 10/25/10
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

Richard T. Miller
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1b
Rev. 2/09

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2626

1. WELL CONTRACTOR:
Ted Miller
Well Contractor (Individual) Name
S&ME, Inc.
Well Contractor Company Name
9751 Southern Pine Boulevard
Street Address
Charlotte NC 28273
City or Town State Zip Code
(704) 523-4726
Area code Phone number

2. WELL INFORMATION:
WELL CONSTRUCTION PERMIT# WM0600822
OTHER ASSOCIATED PERMIT#(if applicable)
SITE WELL ID #(if applicable) DMW-2

3. WELL USE (Check One Box) Monitoring ☑ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation ☐ Other ☐ (list use)
DATE DRILLED 9/15/2010

4. WELL LOCATION:
Corner Atkinson Street and Ashley Ave
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)
CITY: Hamlet COUNTY Richmond
TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐Slope ☐Valley ☑Flat ☐Ridge ☐Other
LATITUDE 34 ° 54 ' 21.7100 " DMS OR 3x.xxxxxxxx DD
LONGITUDE 79 ° 40 ' 33.5200 " DMS OR 7x.xxxxxxxx DD
Latitude/longitude source: ☑GPS ☐Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. FACILITY (Name of the business where the well is located.)
Atkinson Site NONCD000286
Facility Name Facility ID# (if applicable)
109 Atkinson Street
Street Address
Hamlet NC 28345
City or Town State Zip Code
Mr. David Brown (NCDENR-Project Mgr.)
Contact Name
225 Green Street, Suite 714
Mailing Address
Fayetteville NC 28301
City or Town State Zip Code
(910) 433-3354
Area code Phone number

6. WELL DETAILS:
a. **TOTAL DEPTH:** 83.0
b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☑
c. **WATER LEVEL** Below Top of Casing: 41.36 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** -0.2 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.
e. **YIELD (gpm):** _____ **METHOD OF TEST** _____
f. **DISINFECTION: Type** _____ **Amount** _____
g. **WATER ZONES** (depth):
Top_____ Bottom_____ Top_____ Bottom_____
Top_____ Bottom_____ Top_____ Bottom_____
Top_____ Bottom_____ Top_____ Bottom_____

7. CASING:

Depth		Diameter	Thickness/ Weight	Material
Top -0.2 Bottom 78.0 Ft.		2"	sch 40	PVC
Top_____ Bottom_____ Ft.				
Top_____ Bottom_____ Ft.				

8. GROUT:

Depth		Material	Method
Top 71.0 Bottom 73.5 Ft.		Bentonite	Tremie
Top -0.4 Bottom 71.0 Ft.		Cement	Tremie
Top_____ Bottom_____ Ft.			

9. SCREEN:

Depth		Diameter	Slot Size	Material
Top 78.0 Bottom 83.0 Ft.		2 in.	.010 in.	PVC
Top_____ Bottom_____ Ft.		in.	_____ in.	pre-packed
Top_____ Bottom_____ Ft.		in.	_____ in.	

10. SAND/GRAVEL PACK:

Depth		Size	Material
Top 73.5 Bottom 83.0 Ft.		#2	Silica prepacked
Top_____ Bottom_____ Ft.			plus additional sand
Top_____ Bottom_____ Ft.			

11. DRILLING LOG

Top	Bottom	Formation Description
0	10.0	Lt brown silty sand
10.0	15.0	Red/grey silty fine sand
15.0	19.0	Tan silty sand
19.0	22.0	Grey silty clay - very hard
22.0	40.0	Tan/brown/grey silty sand
40.0	50.0	pink/red sandy silty clay
50.0	60.0	Lt tan/grey silty sand
60.0	73.5	Tan silty sand
73.5	82.0	Mottled red/tan silty clayey lg san
82.0	85.0	Grey hard silty clay

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Ted Miller 10/25/10
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

Richard Miller
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1b
Rev. 2/09

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 26226

1. WELL CONTRACTOR:
Ted Miller
Well Contractor (Individual) Name
S&ME, Inc.
Well Contractor Company Name
9751 Southern Pine Boulevard
Street Address
Charlotte NC 28273
City or Town State Zip Code
(704) 523-4726
Area code Phone number

2. WELL INFORMATION:
WELL CONSTRUCTION PERMIT# WM0600823
OTHER ASSOCIATED PERMIT#(if applicable)
SITE WELL ID #(if applicable) DMW-3

3. WELL USE (Check One Box) Monitoring ☑ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation ☐ Other ☐ (list use)
DATE DRILLED 9/17/2010

4. WELL LOCATION:
112 Ashley Ave
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)
CITY: Hamlet COUNTY Richmond
TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐Slope ☐Valley ☑Flat ☐Ridge ☐Other
LATITUDE 34 ° 54 ' 21.7100 " DMS OR 3x.xxxxxxxx DD
LONGITUDE 79 ° 40 ' 36.3800 " DMS OR 7x.xxxxxxxx DD
Latitude/longitude source: ☑GPS ☐Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. FACILITY (Name of the business where the well is located.)
Atkinson Site NONCD000286
Facility Name Facility ID# (if applicable)
109 Atkinson Street
Street Address
Hamlet NC 28345
City or Town State Zip Code
Mr. David Brown (NCDENR-Project Mgr.)
Contact Name
225 Green Street, Suite 714
Mailing Address
Fayetteville NC 28301
City or Town State Zip Code
(910) 433-3354
Area code Phone number

6. WELL DETAILS:
a. **TOTAL DEPTH:** 84.0
b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☑
c. **WATER LEVEL** Below Top of Casing: 30.34 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** -0.2 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.
e. **YIELD (gpm):** _____ **METHOD OF TEST** _____
f. **DISINFECTION: Type** _____ **Amount** _____
g. **WATER ZONES** (depth):
Top_____ Bottom_____ Top_____ Bottom_____
Top_____ Bottom_____ Top_____ Bottom_____
Top_____ Bottom_____ Top_____ Bottom_____

7. CASING:

Depth	Diameter	Thickness/ Weight	Material
Top -0.2 Bottom 79.0 Ft.	2"	sch 40	PVC
Top_____ Bottom_____ Ft.			
Top_____ Bottom_____ Ft.			

8. GROUT:

Depth	Material	Method
Top 73.0 Bottom 76.0 Ft.	Bentonite	Tremie
Top -0.4 Bottom 73.0 Ft.	Cement	Tremie
Top_____ Bottom_____ Ft.		

9. SCREEN:

Depth	Diameter	Slot Size	Material
Top 79.0 Bottom 84.0 Ft.	2 in.	.010 in.	PVC
Top_____ Bottom_____ Ft._____ in.	_____ in.		pre-packed
Top_____ Bottom_____ Ft._____ in.	_____ in.		

10. SAND/GRAVEL PACK:

Depth	Size	Material
Top 76.0 Bottom 84.0 Ft.	#2	Silica prepacked
Top_____ Bottom_____ Ft._____		plus additional sand
Top_____ Bottom_____ Ft._____		

11. DRILLING LOG

Top / Bottom	Formation Description
0 / 5.0	Grey/tan silty clay
5.0 / 15.0	Tan/brown silty sand
15.0 / 20.0	Grey silty sand with clay
20.0 / 29.0	White med grain silty sand
29.0 / 35.0	Grey silty clayey sand
35.0 / 41.0	Grey silty sandy clay
41.0 / 60.0	Tan/pink silty sand
60.0 / 65.0	Red medium silty sand
65.0 / 72.0	Tan fine silty clayey sand
72.0 / 85.0	Tan/red silty sand with clay-Hard
/	

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

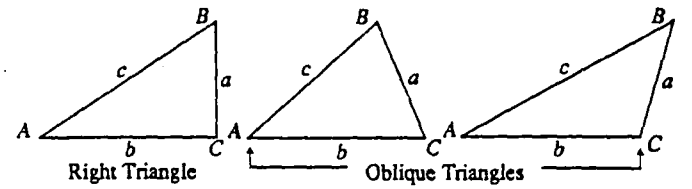
Ted Miller 10/25/10
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

Richard Miller
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1b
Rev. 2/09

TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{b}$, $\operatorname{cosec} = \frac{c}{a}$

Given	Required	
a, b	A, B, c	$\tan A = \frac{a}{b} = \cot B,\ c = \sqrt{a^2 + b^2} = a\sqrt{1 + \frac{b^2}{a^2}}$
a, c	A, B, b	$\sin A = \frac{a}{c} = \cos B,\ b = \sqrt{(c+a)(c-a)} = c\sqrt{1 - \frac{a^2}{c^2}}$
A, a	B, b, c	$B = 90° - A,\ b = a \cot A,\ c = \frac{a}{\sin A}.$
A, b	B, a, c	$B = 90° - A,\ a = b \tan A,\ c = \frac{b}{\cos A}.$
A, c	B, a, b	$B = 90° - A,\ a = c \sin A,\ b = c \cos A,$

Solution of Oblique Triangles

Given	Required	
A, B, a	b, c, C	$b = \frac{a \sin B}{\sin A},\ C = 180° - (A + B),\ c = \frac{a \sin C}{\sin A}$
A, a, b	B, c, C	$\sin B = \frac{b \sin A}{a},\ C = 180° - (A + B),\ c = \frac{a \sin C}{\sin A}$
a, b, C	A, B, c	$A + B = 180° - C,\ \tan \frac{1}{2}(A - B) = \frac{(a-b)\tan \frac{1}{2}(A+B)}{a+b},$ $c = \frac{a \sin C}{\sin A}$
a, b, c	A, B, C	$s = \frac{a+b+c}{2},\ \sin \frac{1}{2}A = \sqrt{\frac{(s-b)(s-c)}{bc}},$ $\sin \frac{1}{2}B = \sqrt{\frac{(s-a)(s-c)}{ac}},\ C = 180° - (A + B)$
a, b, c	Area	$s = \frac{a+b+c}{2},\ \text{area} = \sqrt{s(s-a)(s-b)(s-c)}$
A, b, c	Area	$\text{area} = \frac{bc \sin A}{2}$
A, B, C, a	Area	$\text{area} = \frac{a^2 \sin B \sin C}{2 \sin A}$

9/10/10
1034-10-2002
Sunny 80's

Atkinson Site

0800 - Checked Boring locations
0900 - Held H+S meeting.

On site:
Gerald Paul
Tom Whitehead
Mike Medlin
David Brown

0910 - Set up on B-109-1
0-5 med grain tan/brown Sand (6" topsoil)
5-6 tan Clayey Sand
6-10 Red/tan clayey Sand (med grain)
10-13 Tan/brown very hard silty Sand fine
13-16 " "
16-17 fine white/tan Sand wet @ 16' bgs
perched water more than likely from nearby
Septic tank & Sampled B-109-1 @ 0945
17-18 - fine tan/grey Sand (fine)
18-19 - med tan Sand
19-20 - Very hard grey silty clay.
0950 Mob to B-109-2
0-5 light grey to tan hard silty Sand
w large grains throughout.
5-9 mixed med to fine tan silty Sand Sampled
9-12 - " "
13-15 fine tan silty Sand
15-16 med to large grain Sand tan wet @ 16'
16-17 tan/grey fine silty clay hard
17-18 " "
18-20 Very wet fine silty Sand lt brown

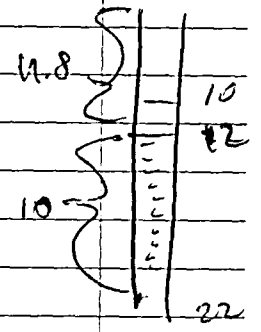
B-109-3

1055 began Drilling
0-2 Fine grey Silty Sand
2-5 - Tan hard med grain Silty Sand
5-9 - Tan/orange med silty Sand (hard)
9-12 " "
13-15 grey tan and red large Sand wet @ 13'
15-17 grey/red silty clay Very hard (Dry)
17-20 SAME
Set up on B-109-4
0-5 - loose tan sand to 1' (6" topsoil)
Then tan/orange silty Sand med grain
5-7 " "
7-9 - Orange/dark brown silty clay (hard)
9-12 " "
12-13 grey silty clay Very hard
13-15 light tan Sand (Silty wet @ 15'
15-17 Red/grey silty Sand fine wet
17-18 " "
18-20 grey silty clay (Very hard)

Sampled Haught WSW @ 1220
Sampled Jernigan WSW @ 1250
Sampled Butler WSW @ 1315
K eq blank 1325
1000 Cleaned up / left site

9/13/10 80's hot
to Drill 3 Deep wells + 1 shallow monitor well.
On site:
Gerald Paul
Seth Lowe
Tom Whitehead.
0800 Arrived on site
opened existing wells
HMW-1 3/18/10 TWD = 80 70-80 Screen] stick up wells
HMW-2 " TWD = 36 26-36 Screen
SMW-1 " TWD = 90 85-90 Screen] flush mounts
SMW-2 " TWD = 85 75-85 Screen
1000 - Stone Drillers on site to install SMW-3
1015 - DAVID Brown on site
- Set up on SMW-3
0-5 Tan/lt brown Sand (2-3" topsoil)
5-9 tan/or Silty Sand (Firm)
9-11 fine Silty Sand (Soft)
11-13 - tan/or Silty Sand (Firm)
13-15 tan Fine Sand
15-17 Tan/white med grain Sand (wet @ 15')
17-19 " "
19-21 Very hard grey silty clay

21.8 Probe Refusal
1200 - Switched over to Augers w/ plug to get through tight Silty Clay.
1210 Roll off arrived at Site
1215 David Wells called to instruct me to set SMW-3 @ 20-21' bgs on top of the Silty Clay layer
1330 - Completed SMW-3
22 ft bgs 10' Screen
TWD 21.8
Sand 10
Bent 8-10
DTW - 14.95
TWD = 21.8
1515 - STME Drillers (Charlotte) Arrived on site.
- Several conversations with David Wells / ED Wolozzyn changed Drilling Procedure for deep wells
1555 - held H+S meeting New Drillers set up Rig on DMW-1 to begin Drilling 9/14/10 Am.



Drilled to 5' bgs to Check Seal
35-5 lt brown Sand.
Cleaned up / left Site.

9/14/10 Drilling DMW-1
Drilling with CME 55 mud Rotor using clean water.
0800 - held H+S meeting
- cont Drilling DMW-1
8-9 - tan med/large Sand
9-10 - tan Silty Sand med/fine
13-15 - Tan Silty Sand Red Silty Sand at 14.5
18-20 - tan/grey/Red med sand to 19 then grey silty Clay on the first Clay layer.
23-25 - 9/15/8 - blow count - grey clayey silty Sand w brown/Red.
28-30 - 10/12/10 - BC 28-29 = tan/Red Silty Clay w/Sand
29-30 Tan/grey Silty Sand.
33-35 - 9/9/7 BC - grey/tan fine silty sand.
38-40 - 3/2/2 - fine Silty Sand to large Sand @ 40'
43-45 large tan Sand to 43.5 then Red/tan silty Sand Med grain
48-50 - 26/52/32 Very hard grey Silty Clay Started @ 47' bgs
53-55 -
1200 Went to get water / lunch

while at Chappell site notetaker was Visited by the Richmond County Health dept. and was told that we were to contact Them before we grouted the wells. Called david wells.

53-55 12/28/45 - tan/grey silty clay (Very hard) 8 to 54 Then 54-55 tan/or silty clayey sand Very hard.

58-60 - 15/25/31 BC Very hard Silty Clay Grey with Red Silty Sand @ 59'

1630 Transfer Pump Broke

63-65 tan Silty Sand (Softer) 6/9/6 BC

68-70 8/11/11 BC - large grain Silty Sand tan/white

73-75 8/7/6 BC - " " tan/Pink

78-80 1/1/1 Nothing in Spoon NO Sample large Sand

83-85 6/8/8 BC - large grain Sand Tan/pink

88-90 6/8/4 BC - " "

93-95 16/32/35 (Very hard) Silty Clay With Sand Grey to pink

Set well @ 95' bgs

Slight Cave in to 93.5'

Sand above the Screen to 86.1

Bentonite to 84.0

2030 - Cleaned up site - left

9/15/10 Cont Drilling Deep Wells.

0800 - Arrived on site

- To begin grouting as soon as Dept of health Arrives on Site.

- To Set up on DMW-2

- Bryan with Dept of Health will be on site at 0945.

0950 - Dept of health on Site - Victoria hudson to Submit well const Records to State / DOH.

1005 - began pumping grout.

Continue using water from neighbor.

mixed 14 bags of portland to grout hole.

Decon Rig to Set up on next hole DMW-2.

1400 began Drilling DMW-2

3-5 - 4/8/8 BC - lt brown Silty Sand.

8-10 - 6/8/8 BC - lt brown Silty Sand w/clay.

13-15 2/2/7 BC - Red/grey Silty fine Sand (Firm)

18-20 3/9/19 BC - 18-19 tan Sandy Silt grey

19-20 - grey Silty Clay Very hard.

23.5-25 7/13/14 12" Rec Tan, lt grey red brown silty fine SAND. oxidation @ 23' & 24.8' Saturated/Wash Drill

28.5-30 6/8/8 8" Rec - lt tan to lt red brown silty f SAND Cass Cr stain Saturated

33.5-35 10/12/9 Rec 10" Lt tan red lo-f-m SAND
Saturated
34.9 Lt gr sandy SILT
38.5-40 1/2/2 Rec 8" Lt Tan, very light gray slightly
silty f-cs SAND, qtz round, sub round
some subangular SATURATED
43.5-45 3/11/15 Same f-cs SAND
44.4 Lt pink to red silty CLAY, DAMP
48.5-50 8/20/30 Lt Pink Sandy Silty CLAY
Damp.
53.5-55 5/9/12 lt tan w/ slight non-oxide lamina
Silty fine Sand (Saturated)
57 - Start Sand
58.5-60 6/9/10 lt tan Silty fine Sand.
63.5-65 6/7/11 - lt tan med ~~fine~~ Silty Sand
68.5-70 10/12/11 - lt tan med silty Sand - Rec 1.0"
73.5-75 - 6/8/10 - lt grey to tan fine Silty Sand - Full Rec
78.5-80 - - mottled Red/tan silty/clayey large
grain Sand - Rec full - Clay layer Noted @ 82' bgs
83.5-84 7.5/BC 6" Very little Recovery
Very hard silty clay with large pebble
Size qtz. - To set well on top of this
Confining layer.
~~Set well to~~ overdrilled to 85'
to set well @ 83.5 6" Cap
Sand to 73.5
Bent to 71

(8)

Grout well DMW-2 / inspection by Victoria Hudson
Decon All gear
Set up on DMW-2
1630 - begin Drilling DMW-3
3.5-5 - 3/7/9 BC - Very tight grey/tan Silty Clay
8.5-10 6/8/12 BC - Very fine tan/lt brown Silty ~~Clay~~ Clayey Sand
Recovery 1'
13.5-15 4/7/8 BC - Recovery 1' Very fine tan/brown Silty Sand
18.5-20 - 4/6/12 BC - Rec full 10" " until 19.5
Then grey Silty Sand w/ clay
23.5-25 - 6/8/12 BC - White med grain Silty Sand
28.5-30 - 4/5/5 BC - " " to 29 Then grey silty clayey sand.
33.5-35 - 8/20/22 BC lt grey silty Sandy Clay
Very hard Con unit.
1840 Cleaned up left site.
9/17/10 - Held HTS meeting
0730 Cont To Drill DMW-3
38.5-40 - Cont 7/14/18 BC lt grey Silty Sandy clay Very hard.
43.5-45 - 5/8/11 - lt grey Silty Sand Softer
Out of The clay @ 41.
48.5-50 - 15/17/20 BC - tan 1' Recovery med Silty Sand
53.5-55 - 9/12/13 BC - tan/Pink med to Large
Silty Sand - 1' Recovery.
58.5-60 - 3/5/9 - 1' Rec - tan/pink lg Sand to 59.5
Then fine/med tan/pink silty Sand.
63.5-65 - 5/10/12 - Red med silty Sand to 64 Then
tan fine silty clayey Sand to 65. (Hard Clay #2)

(9)

DMW-3 Cont

68.5-70 - 13/33/90 - tan/grey silty clay w/fine sand very dense - out of clay @ 72

73.5-75 - 6/8/36 - med tan/red silty sand w/clay to 74 - then tan/red/lt brown sandy silty clay (Very hard)

78.5-80 - 12/38/64 - tan silty clay w/sand (Hard)

~~83.5 to set well @ 83.5~~

83.5-84 18/47/ - BC - Same as above very tight

to set well @ 83.5

Sand to 76

Bent to 73

1400 Well inspector on site to ins Grout

9/20/10 on site to develop New mw's

0800 - Arrived on site — Gerald Paul, Walter Cole

- Opened all wells

- HTS meeting

0830 - began to develop DMW-1

- Walter Cole to develop DMW-3

- Gerald Paul to develop DMW-2

Water levels	DTH2O	TWP	Per 5 gal AMT purged
DMW-1	44.94		~~IDX~~ III
DMW-2	39.84		
DMW-3	30.28		
SMW-1	37.25		
SMW-2	29.15		
SMW-3	15.01		

Voltage output 21-25

Flow rate approx 2 gpm

Purged approx 350 gallons out of DMW-3

Purged approx 400 gallons out of DMW-1

Purged approx 200 gallons out of DMW-2

Well was pumping dry and recharge was not as fast as the other wells.

1715 left site - Placed Drums by waste Container.

Appendix IV

Calculations

109 Atkinson Street
Hamlet, North Carolina
S&ME Project No. 1054-10-2002

Groundwater Contour Calculations

Elevation		Elevation	Distance	Gradient	Contour 340	339	338	337	336	335	334
DMW-1	to	SMW-2			340	339	338	337	336		
340.12		339.45	278	0.00241	49.8						
DMW-1		SMW-1			340	339	338	337	336		
340.12		336.92	242	0.013223	9.1	84.7	160.3	236.0	311.6		
DMW-1		DMW-2			340	339					
340.12		338.63	325	0.004585	26.2	244.3					
SMW-2		SMW-1			339.0	338.0	337.0	336.0	335.0	334.0	333.0
339.45		336.92	212	0.011934	37.7	121.5	205.3				
SMW-2		DMW-3			339.0	338.0	337.0	336.0	335.0	334.0	333.0
339.45		336.69	250	0.01104	40.8	131.3	221.9	312.5	403.1	493.7	584.2
DMW-2		SMW-1			338.0	337.0	336.0	335.0	334.0	333.0	332.0
338.63		336.92	186	0.009194	68.5	177.3					
DMW-2		DMW-3			338.0	337.0	336.0	335.0	334.0	333.0	332.0
338.63		336.69	210	0.009238	68.2	176.4					
					368.0	367.0	366.0	365.0	364.0	363.0	362.0
368.76		336.92	272	0.117059	6.5	15.0	23.6	32.1	40.7	49.2	57.7
					377.0	376.0	375.0	374.0	373.0	372.0	371.0
0.00		336.92	258	-1.30589	288.7	287.9	287.2	286.4	285.6	284.9	284.1

Three Point gradient Calc

DMW-1	DMW-3		
340.12	336.69	344	0.009971

DMW-1	DMW-2	/ 0.00997	
340.12	338.63	149.434	
		New Dsit Perp to line	338.63
340.12	336.69	298	**0.01151**

		TOC	DTW	Prod	Elev	Screen Int
Shallow						
HMW-2						26-36
SMW-3	9/21/2010	383.92	15.16	0.00	368.76	16.3-21.3
Deep						
HMW-1						70-80
SMW-1	9/21/2010	374.23	37.31	0.00	336.92	85-90
SMW-2	9/21/2010	368.65	29.20	0.00	339.45	75-85
DMW-1	9/21/2010	385.28	45.16	0.00	340.12	88.5-93.5
DMW-2	9/21/2010	379.99	41.36	0.00	338.63	77.5-82.5
DMW-3	9/21/2010	367.03	30.34	0.00	336.69	78.5-83.5

Appendix V

Field Groundwater Sampling Logs

S&ME

GROUNDWATER SAMPLING LOG

Groundwater Samling Form

Site Name:	ATKINSON	S&ME Project No.:	1054-10-2002
Well No:	SMW-3	Sample ID:	SMW-3
Date:	09-21-2010		

PURGING DATA

Well Dia. (in):	2	Well Depth (ft):	21.8	Depth Top of Screen:	16.3	Depth Bottom of Screen (ft):	21.3	Depth to Water from TOC (ft):	15.16	Purge Equipment or Bailer:	Peristaltic Pump

Well Volume Purge = (total well depth - static water depth) (ft) - (ft) x well capacity (gal/ft) = gal. Well condition:

Initial Pump or Tubing Depth in Well (ft):		Final Pump or Tubing Depth in Well (ft):		Purging Initiated at:		Purging Ended at:		Total Volume Purged (Gal):	

Time	Volume Purged (gal)	Cumul Vol Purged (gal)	pH (Std Units)	Temperature (°C)	Cond. (µmhos/cm or µS/cm)	Turbidity (NTUs)	Diss. Oxygen (mg/L)	ORP (mV)	Color - describe	Odor describe
1250	LFS		4.76	21.39	0.156	600	16.59	97		NONE
1252			4.69	21.30	0.156	360	10.80	100		
1254			4.57	21.38	0.156	282	6.53	104		
1256			4.50	21.54	0.155	260	6.00	108		
1258			4.53	20.68	0.154	220	6.80	110		
1300			4.55	20.64	0.153	160	6.71	120		
1302			4.50	20.63	0.152	130	5.77	121		
1304			4.37	20.67	0.154	120	6.00	124		
1306			4.37	20.64	0.152	132	6.06	130		
1310	<----- Time that record sample was collected				Sampling equipment:					

Well Capacity (Gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Purging Equipment Codes: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

Sampling Equipment Codes: APP = After Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (tubing gravity drain)

Remarks:

Sampler (print name): GERALD PAUL

Sampler (Signature): [signature]

Samples Analyses: ☒ VOCs 8260B ☐ 8 RCRA Metals ☐ PCBs ☐ Herbicides Refernce Chain of Custody dated:
☐ SVOCs 8270D ☐ 14 Priority Pollutant Metals ☐ Pesticidse
☐ Other:

Notes: pH: +/- 0.2 units Temp: =/- 0.2°C Specific Cond: +/- 5% Dissolved Oxygen: all readings </= 20% saturation (see Table FS 2200-2); optionally, +/- 0.2 mg/L or +/- 10% (whichever is greater) Turbidity: all readings </= 20 NTU; optionally +/- 5 NTU or +/- 10% (whichever is greater)

capturx COMPATIBLE WITH Anote FUNCTIONALITY

S&ME

GROUNDWATER SAMPLING LOG

Groundwater Samling Form

Site Name:	ATKINSON			S&ME Project No.:	1054-10-2002
Well No:	DMW-1	Sample ID:	DMW-1	Date:	09-21-2010

PURGING DATA

Well Dia. (in):	2	Well Depth (ft):	93.5	Depth Top of Screen:	88	Depth Bottom of Screen (ft):	93	Depth to Water from TOC (ft):	45.16	Purge Equipment or Bailer:	Atkinson

Well Volume Purge = [ ] (ft) - [ ] (ft) x [ ] (gal/ft) = [ ] gal. (total well depth - static water depth) x well capacity

Well condition:

Initial Pump or Tubing Depth in Well (ft):		Final Pump or Tubing Depth in Well (ft):		Purging Initiated at:		Purging Ended at:		Total Volume Purged (Gal):	

Time	Volume Purged (gal)	Cumul Vol Purged (gal)	pH (Std Units)	Temperature (°C)	Cond. (µmhos/cm or µS/cm)	Turbidity (NTUs)	Diss. Oxygen (mg/L)	ORP (mV)	Color - describe	Odor describe
1200	CFS		8.00	18.68	0.209	627	7.31	-39.2		None
1202			7.94	18.68	0.205	600	7.02	-37.4		
1204			6.24	18.82	0.181	240	6.41	41.2		
1206			6.12	18.79	0.156	160	6.31	44		
1208			6.09	18.71	0.149	80	6.04	47		
1210			5.94	18.60	0.147	64	5.98	47		
1212			5.83	18.74	0.144	30.8	5.97	56		
1214			5.82	18.70	0.144	12	6.03	63		
1216			5.67	18.64	0.140	6.2	6.07	68.3		
1220	<----- Time that record sample was collected				Sampling equipment:					

Well Capacity (Gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Purging Equipment Codes: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

Sampling Equipment Codes: APP = After Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (tubing gravity drain)

Remarks:

Sampler (print name): GERALD PAUL

Sampler (Signature):

Samples Analyses: ☒ VOCs 8260B ☐ 8 RCRA Metals ☐ PCBs ☐ Herbicides Refernce Chain of Custody dated:

☐ SVOCs 8270D ☐ 14 Priority Pollutant Metals ☐ Pesticidse

☐ Other:

Notes: pH: +/- 0.2 units Temp: =/- 0.2°C Specific Cond: +/- 5% Dissolved Oxygen: all readings </= 20% saturation (see Table FS 2200-2); optionally, +/- 0.2 mg/L or +/- 10% (whichever is greater) Turbidity: all readings </= 20 NTU; optionally +/- 5 NTU or +/- 10% (whichever is greater)

capturx COMPATIBLE WITH Trimble FUNCTIONALITY

SR-FS-9.0 - Groundwater Sampling Log - Form SD 9609-04 Final / Groundwater Sampling Form (1).pdf - Printed 1/13/2010 11:00 AM from SMSDocuments4

S&ME GROUNDWATER SAMPLING LOG

Groundwater Samling Form

Site Name:	ATHINSON			S&ME Project No.:	1054-10-2002
Well No:	DMW-2	Sample ID:	DMW-2	Date:	09-21-2010

PURGING DATA

Well Dia. (in):	2	Well Depth (ft):	83	Depth Top of Screen:	77.5	Depth Bottom of Screen (ft):	82.5	Depth to Water from TOC (ft):	41.36	Purge Equipment or Bailer:	Marsh Pump

Well Volume Purge = ____ (ft) - ____ (ft) x ____ (gal/ft) = ____ gal. (total well depth - static water depth) x well capacity

Well condition:

Initial Pump or Tubing Depth in Well (ft):		Final Pump or Tubing Depth in Well (ft):		Purging Initiated at:		Purging Ended at:		Total Volume Purged (Gal):	

Time	Volume Purged (gal)	Cumul Vol Purged (gal)	pH (Std Units)	Temperature (°C)	Cond. (µmhos/cm or µS/cm)	Turbidity (NTUs)	Diss. Oxygen (mg/L)	ORP (mV)	Color - describe	Odor describe
1106	LFS		9.68	19.36	0.158	30	6.32	-62.9		None
1108			9.78	19.43	0.160	26.2	5.60	-66		
1110			10.12	19.60	0.199	20	5.05	-75		
1112			10.21	19.63	0.215	18.6	4.89	-91.8		
1114			10.36	19.62	0.264	14.2	4.88	-91.7		
1116			10.34	19.63	0.258	12.1	4.99	-95		
1118			10.22	19.86	0.220	5.1	4.72	-98		
1120			10.21	19.72	0.209	5.9	4.71	-100		
1122			10.21	19.68	0.204	4.6	4.70	-107		
1126	<----- Time that record sample was collected				Sampling equipment:					

Well Capacity (Gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Purging Equipment Codes: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

Sampling Equipment Codes: APP = After Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (tubing gravity drain)

Remarks:

Sampler (print name): GERALD PAUL

Sampler (Signature):

Samples Analyses:
- ☑ VOCs 8260B
- ☐ 8 RCRA Metals
- ☐ PCBs
- ☐ Herbicides
- Refernce Chain of Custody dated:
- ☐ SVOCs 8270D
- ☐ 14 Priority Pollutant Metals
- ☐ Pesticidse
- ☐ Other:

Notes: pH: +/- 0.2 units Temp: =/- 0.2°C Specific Cond: +/- 5% Dissolved Oxygen: all readings </= 20% saturation (see Table FS 2200-2); optionally, +/- 0.2 mg/L or +/- 10% (whichever is greater) Turbidity: all readings </= 20 NTU; optionally +/- 5 NTU or +/- 10% (whichever is greater)

capturx COMPATIBLE WITH Arcfm FUNCTIONALITY

GROUNDWATER SAMPLING LOG

S&ME

Groundwater Samling Form

Site Name:	ATKINSON			S&ME Project No.:	1054-10-2002
Well No:	DMW-3	Sample ID:	DMW-3	Date:	9/21/10

PURGING DATA

Well Dia. (in):	2	Well Depth (ft):	84	Depth Top of Screen:	78.5	Depth Bottom of Screen (ft):	83.5	Depth to Water from TOC (ft):	30.34	Purge Equipment or Bailer:	Masoon Pump

Well Volume Purge = (total well depth - static water depth) ____ (ft) - ____ (ft) x well capacity ____ (gal/ft) = ____ gal. Well condition:

Initial Pump or Tubing Depth in Well (ft):		Final Pump or Tubing Depth in Well (ft):		Purging Initiated at:		Purging Ended at:		Total Volume Purged (Gal):	

Time	Volume Purged (gal)	Cumul Vol Purged (gal)	pH (Std Units)	Temperature (°C)	Cond. (µmhos/cm or µS/cm)	Turbidity (NTUs)	Diss. Oxygen (mg/L)	ORP (mV)	Color - describe	Odor describe
1018	LFS		9.94	18.47	0.097	680	8.56	-72.4	Cloudy	NONE
1022			10.07	18.46	0.101	720	8.38	-77	"	"
1024			9.09	18.98	0.082	430	7.70	-38.8	Clear	"
1026			8.28	18.93	0.060	136	7.71	-46.6	Clear	"
1028			8.21	18.96	0.060	72	7.56	-43.9	Clear	"
1030			7.70	1900	0.060	64	7.54	-21	Clear	"
1032			7.66	18.96	0.058	46	7.52	-30	Clear	"
1034			7.49	19.97	0.056	22	7.56	-27.2	Clear	"
1036			7.56	18.85	0.055	14	7.54	-21	Clear	"
1038	<----- Time that record sample was collected			18.96	0.055	Sampling equipment: 12		-17	Clear	

Well Capacity (Gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Purging Equipment Codes: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

Sampling Equipment Codes: APP = After Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (tubing gravity drain)

Remarks:

Sampler (print name): GERALD PAUL

Sampler (Signature):

Samples Analyses: ☒ VOCs 8260B ☐ 8 RCRA Metals ☐ PCBs ☐ Herbicides Refernce Chain of Custody dated:

☐ SVOCs 8270D ☐ 14 Priority Pollutant Metals ☐ Pesticidse

☐ Other:

Notes: pH: +/- 0.2 units Temp: =/- 0.2°C Specific Cond: +/- 5% Dissolved Oxygen: all readings </= 20% saturation (see Table FS 2200-2); optionally, +/- 0.2 mg/L or +/- 10% (whichever is greater) Turbidity: all readings </= 20 NTU; optionally +/- 5 NTU or +/- 10% (whichever is greater)

capturx COMPATIBLE WITH Acrobat FUNCTIONALITY

Appendix VI

Laboratory Analytical Report and Chain of Custody Form

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515

www.encolabs.com

Thursday, September 30, 2010

S&ME, Inc. (SM001)

Attn: Ed Woloszyn

3201 Spring Forest Road

Raleigh, NC 27616

RE: Laboratory Results for
Project Number: 1054-10-2002, Project Name/Desc: Atkinson Street Contamination
ENCO Workorder: C011553

Dear Ed Woloszyn,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, September 21, 2010.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 24.

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: DMW-1	Lab ID: C011553-01	Sampled: 09/21/10 12:20	Received: 09/21/10 15:50
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	10/05/10	09/24/10 12:56	9/25/2010 08:13

Client ID: DMW-2	Lab ID: C011553-02	Sampled: 09/21/10 11:26	Received: 09/21/10 15:50
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	10/05/10	09/24/10 12:56	9/25/2010 08:43

Client ID: DMW-3	Lab ID: C011553-03	Sampled: 09/21/10 10:38	Received: 09/21/10 15:50
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	10/05/10	09/29/10 09:21	9/29/2010 17:39

Client ID: SMW-3	Lab ID: C011553-04	Sampled: 09/21/10 13:10	Received: 09/21/10 15:50
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	10/05/10	09/29/10 09:21	9/29/2010 18:08

Client ID: Dup	Lab ID: C011553-05	Sampled: 09/21/10 00:00	Received: 09/21/10 15:50
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	10/05/10	09/29/10 09:21	9/29/2010 18:38

Client ID: Equip Blank	Lab ID: C011553-06	Sampled: 09/21/10 14:00	Received: 09/21/10 15:50
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	10/05/10	09/29/10 09:21	9/29/2010 19:07

Client ID: Trip Blank	Lab ID: C011553-07	Sampled: 09/21/10 12:20	Received: 09/21/10 15:50
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	10/05/10	09/29/10 09:21	9/29/2010 15:38

SAMPLE DETECTION SUMMARY

Client ID: DMW-1 **Lab ID: C011553-01**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane	1.4		0.33	1.0	ug/L	EPA 8260B	
1,1-Dichloroethene	11		0.24	1.0	ug/L	EPA 8260B	

Client ID: DMW-2 **Lab ID: C011553-02**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethene	0.90	J	0.24	1.0	ug/L	EPA 8260B	
Acetone	3.5	J	1.5	5.0	ug/L	EPA 8260B	
Bromodichloromethane	0.41	J	0.37	1.0	ug/L	EPA 8260B	
Chloroform	2.2		0.20	1.0	ug/L	EPA 8260B	

Client ID: DMW-3 **Lab ID: C011553-03**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethene	0.90	J	0.24	1.0	ug/L	EPA 8260B	
Acetone	4.6	J	1.5	5.0	ug/L	EPA 8260B	
Chloroform	1.0		0.20	1.0	ug/L	EPA 8260B	

Client ID: SMW-3 **Lab ID: C011553-04**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Acetone	4.0	J	1.5	5.0	ug/L	EPA 8260B	

Client ID: Dup **Lab ID: C011553-05**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane	1.3		0.33	1.0	ug/L	EPA 8260B	
1,1-Dichloroethene	12		0.24	1.0	ug/L	EPA 8260B	

Client ID: Trip Blank **Lab ID: C011553-07**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Acetone	3.7	J	1.5	5.0	ug/L	EPA 8260B	

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ANALYTICAL RESULTS

Description: DMW-1 **Lab Sample ID:** C011553-01 **Received:** 09/21/10 15:50

Matrix: Ground Water **Sampled:** 09/21/10 12:20 **Work Order:** C011553

Project: Atkinson Street Contamination **Sampled By:** Gerald Paul

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
1,1-Dichloroethane [75-34-3] ^	**1.4**		ug/L	1	0.33	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
1,1-Dichloroethene [75-35-4] ^	**11**		ug/L	1	0.24	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.20	U	ug/L	1	0.20	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.25	U	ug/L	1	0.25	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.94	U	ug/L	1	0.94	5.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
2-Chlorotoluene [95-49-8] ^	0.20	U	ug/L	1	0.20	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
4-Chlorotoluene [106-43-4] ^	0.25	U	ug/L	1	0.25	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
4-Isopropyltoluene [99-87-6] ^	0.26	U	ug/L	1	0.26	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
Bromobenzene [108-86-1] ^	0.28	U	ug/L	1	0.28	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	

Description: DMW-1 | **Lab Sample ID:** C011553-01 | **Received:** 09/21/10 15:50

Matrix: Ground Water | **Sampled:** 09/21/10 12:20 | **Work Order:** C011553

Project: Atkinson Street Contamination | **Sampled By:** Gerald Paul

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Isopropylbenzene [98-82-8] ^	0.24	U	ug/L	1	0.24	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.48	U	ug/L	1	0.48	2.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.38	U	ug/L	1	0.38	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
n-Butyl Benzene [104-51-8] ^	0.20	U	ug/L	1	0.20	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
n-Propyl Benzene [103-65-1] ^	0.30	U	ug/L	1	0.30	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
o-Xylene [95-47-6] ^	0.27	U	ug/L	1	0.27	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
sec-Butylbenzene [135-98-8] ^	0.24	U	ug/L	1	0.24	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
tert-Butylbenzene [98-06-6] ^	0.28	U	ug/L	1	0.28	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	0I24005	EPA 8260B	09/25/10 08:13	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*89 %*	*51-122*	*0I24005*	*EPA 8260B*	*09/25/10 08:13*	*JKG*	
Dibromofluoromethane	*39*	*1*	*50.0*	*78 %*	*68-117*	*0I24005*	*EPA 8260B*	*09/25/10 08:13*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*86 %*	*69-110*	*0I24005*	*EPA 8260B*	*09/25/10 08:13*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: DMW-2 | **Lab Sample ID:** C011553-02 | **Received:** 09/21/10 15:50

Matrix: Ground Water | **Sampled:** 09/21/10 11:26 | **Work Order:** C011553

Project: Atkinson Street Contamination | **Sampled By:** Gerald Paul

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
1,1-Dichloroethene [75-35-4] ^	**0.90**	J	ug/L	1	0.24	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.20	U	ug/L	1	0.20	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.25	U	ug/L	1	0.25	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.94	U	ug/L	1	0.94	5.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
2-Chlorotoluene [95-49-8] ^	0.20	U	ug/L	1	0.20	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
4-Chlorotoluene [106-43-4] ^	0.25	U	ug/L	1	0.25	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
4-Isopropyltoluene [99-87-6] ^	0.26	U	ug/L	1	0.26	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
Acetone [67-64-1] ^	**3.5**	J	ug/L	1	1.5	5.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
Bromobenzene [108-86-1] ^	0.28	U	ug/L	1	0.28	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
Bromodichloromethane [75-27-4] ^	**0.41**	J	ug/L	1	0.37	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
Chloroform [67-66-3] ^	**2.2**		ug/L	1	0.20	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
Isopropylbenzene [98-82-8] ^	0.24	U	ug/L	1	0.24	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.48	U	ug/L	1	0.48	2.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	

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Description: DMW-2 **Lab Sample ID:** C011553-02 **Received:** 09/21/10 15:50

Matrix: Ground Water **Sampled:** 09/21/10 11:26 **Work Order:** C011553

Project: Atkinson Street Contamination **Sampled By:** Gerald Paul

Volatile Organic Compounds by GCMS

^ - *ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.38	U	ug/L	1	0.38	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
n-Butyl Benzene [104-51-8] ^	0.20	U	ug/L	1	0.20	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
n-Propyl Benzene [103-65-1] ^	0.30	U	ug/L	1	0.30	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
o-Xylene [95-47-6] ^	0.27	U	ug/L	1	0.27	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
sec-Butylbenzene [135-98-8] ^	0.24	U	ug/L	1	0.24	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
tert-Butylbenzene [98-06-6] ^	0.28	U	ug/L	1	0.28	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	0I24005	EPA 8260B	09/25/10 08:43	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*0I24005*	*EPA 8260B*	*09/25/10 08:43*	*JKG*	
Dibromofluoromethane	*39*	*1*	*50.0*	*78 %*	*68-117*	*0I24005*	*EPA 8260B*	*09/25/10 08:43*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*69-110*	*0I24005*	*EPA 8260B*	*09/25/10 08:43*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Description: DMW-3 | **Lab Sample ID:** C011553-03 | **Received:** 09/21/10 15:50

Matrix: Ground Water | **Sampled:** 09/21/10 10:38 | **Work Order:** C011553

Project: Atkinson Street Contamination | **Sampled By:** Gerald Paul

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
1,1-Dichloroethene [75-35-4] ^	**0.90**	J	ug/L	1	0.24	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.25	U	ug/L	1	0.25	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.94	U	ug/L	1	0.94	5.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
2-Chlorotoluene [95-49-8] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
4-Chlorotoluene [106-43-4] ^	0.25	U	ug/L	1	0.25	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
4-Isopropyltoluene [99-87-6] ^	0.26	U	ug/L	1	0.26	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
Acetone [67-64-1] ^	**4.6**	J	ug/L	1	1.5	5.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
Bromobenzene [108-86-1] ^	0.28	U	ug/L	1	0.28	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
Chloroform [67-66-3] ^	**1.0**		ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
Isopropylbenzene [98-82-8] ^	0.24	U	ug/L	1	0.24	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.48	U	ug/L	1	0.48	2.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	

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Description: DMW-3 **Lab Sample ID:** C011553-03 **Received:** 09/21/10 15:50

Matrix: Ground Water **Sampled:** 09/21/10 10:38 **Work Order:** C011553

Project: Atkinson Street Contamination **Sampled By:** Gerald Paul

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
n-Butyl Benzene [104-51-8] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
n-Propyl Benzene [103-65-1] ^	0.30	U	ug/L	1	0.30	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
o-Xylene [95-47-6] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
sec-Butylbenzene [135-98-8] ^	0.24	U	ug/L	1	0.24	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
tert-Butylbenzene [98-06-6] ^	0.28	U	ug/L	1	0.28	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	0I29013	EPA 8260B	09/29/10 17:39	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*51-122*	*0I29013*	*EPA 8260B*	*09/29/10 17:39*	*JKG*	
Dibromofluoromethane	*33*	*1*	*50.0*	*66 %*	*68-117*	*0I29013*	*EPA 8260B*	*09/29/10 17:39*	*JKG*	*QS-03*
Toluene-d8	*37*	*1*	*50.0*	*73 %*	*69-110*	*0I29013*	*EPA 8260B*	*09/29/10 17:39*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: SMW-3 | **Lab Sample ID:** C011553-04 | **Received:** 09/21/10 15:50

Matrix: Ground Water | **Sampled:** 09/21/10 13:10 | **Work Order:** C011553

Project: Atkinson Street Contamination | **Sampled By:** Gerald Paul

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.25	U	ug/L	1	0.25	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.94	U	ug/L	1	0.94	5.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
2-Chlorotoluene [95-49-8] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
4-Chlorotoluene [106-43-4] ^	0.25	U	ug/L	1	0.25	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
4-Isopropyltoluene [99-87-6] ^	0.26	U	ug/L	1	0.26	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
Acetone [67-64-1] ^	**4.0**	J	ug/L	1	1.5	5.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
Bromobenzene [108-86-1] ^	0.28	U	ug/L	1	0.28	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
Isopropylbenzene [98-82-8] ^	0.24	U	ug/L	1	0.24	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.48	U	ug/L	1	0.48	2.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	

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Description: SMW-3
Matrix: Ground Water
Project: Atkinson Street Contamination

Lab Sample ID: C011553-04
Sampled: 09/21/10 13:10
Sampled By: Gerald Paul

Received: 09/21/10 15:50
Work Order: C011553

Volatile Organic Compounds by GCMS

^ - *ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
n-Butyl Benzene [104-51-8] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
n-Propyl Benzene [103-65-1] ^	0.30	U	ug/L	1	0.30	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
o-Xylene [95-47-6] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
sec-Butylbenzene [135-98-8] ^	0.24	U	ug/L	1	0.24	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
tert-Butylbenzene [98-06-6] ^	0.28	U	ug/L	1	0.28	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	0I29013	EPA 8260B	09/29/10 18:08	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*51-122*	*0I29013*	*EPA 8260B*	*09/29/10 18:08*	*JKG*	
Dibromofluoromethane	*34*	*1*	*50.0*	*67 %*	*68-117*	*0I29013*	*EPA 8260B*	*09/29/10 18:08*	*JKG*	*QS-03*
Toluene-d8	*38*	*1*	*50.0*	*76 %*	*69-110*	*0I29013*	*EPA 8260B*	*09/29/10 18:08*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Description: Dup
Matrix: Ground Water
Project: Atkinson Street Contamination

Lab Sample ID: C011553-05
Sampled: 09/21/10 00:00
Sampled By: Gerald Paul

Received: 09/21/10 15:50
Work Order: C011553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
1,1-Dichloroethane [75-34-3] ^	**1.3**		ug/L	1	0.33	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
1,1-Dichloroethene [75-35-4] ^	**12**		ug/L	1	0.24	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.25	U	ug/L	1	0.25	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.94	U	ug/L	1	0.94	5.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
2-Chlorotoluene [95-49-8] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
4-Chlorotoluene [106-43-4] ^	0.25	U	ug/L	1	0.25	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
4-Isopropyltoluene [99-87-6] ^	0.26	U	ug/L	1	0.26	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
Bromobenzene [108-86-1] ^	0.28	U	ug/L	1	0.28	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
Isopropylbenzene [98-82-8] ^	0.24	U	ug/L	1	0.24	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.48	U	ug/L	1	0.48	2.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	

Description: Dup
Matrix: Ground Water
Project: Atkinson Street Contamination

Lab Sample ID: C011553-05
Sampled: 09/21/10 00:00
Sampled By: Gerald Paul

Received: 09/21/10 15:50
Work Order: C011553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
n-Butyl Benzene [104-51-8] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
n-Propyl Benzene [103-65-1] ^	0.30	U	ug/L	1	0.30	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
o-Xylene [95-47-6] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
sec-Butylbenzene [135-98-8] ^	0.24	U	ug/L	1	0.24	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
tert-Butylbenzene [98-06-6] ^	0.28	U	ug/L	1	0.28	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	0I29013	EPA 8260B	09/29/10 18:38	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*103 %*	*51-122*	*0I29013*	*EPA 8260B*	*09/29/10 18:38*	*JKG*	
Dibromofluoromethane	*33*	*1*	*50.0*	*66 %*	*68-117*	*0I29013*	*EPA 8260B*	*09/29/10 18:38*	*JKG*	*QS-03*
Toluene-d8	*37*	*1*	*50.0*	*75 %*	*69-110*	*0I29013*	*EPA 8260B*	*09/29/10 18:38*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Description: Equip Blank
Matrix: Water
Project: Atkinson Street Contamination

Lab Sample ID: C011553-06
Sampled: 09/21/10 14:00
Sampled By: Gerald Paul

Received: 09/21/10 15:50
Work Order: C011553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.25	U	ug/L	1	0.25	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.94	U	ug/L	1	0.94	5.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
2-Chlorotoluene [95-49-8] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
4-Chlorotoluene [106-43-4] ^	0.25	U	ug/L	1	0.25	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
4-Isopropyltoluene [99-87-6] ^	0.26	U	ug/L	1	0.26	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
Bromobenzene [108-86-1] ^	0.28	U	ug/L	1	0.28	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
Isopropylbenzene [98-82-8] ^	0.24	U	ug/L	1	0.24	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.48	U	ug/L	1	0.48	2.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	

Description: Equip Blank
Matrix: Water
Project: Atkinson Street Contamination

Lab Sample ID: C011553-06
Sampled: 09/21/10 14:00
Sampled By: Gerald Paul

Received: 09/21/10 15:50
Work Order: C011553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
n-Butyl Benzene [104-51-8] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
n-Propyl Benzene [103-65-1] ^	0.30	U	ug/L	1	0.30	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
o-Xylene [95-47-6] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
sec-Butylbenzene [135-98-8] ^	0.24	U	ug/L	1	0.24	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
tert-Butylbenzene [98-06-6] ^	0.28	U	ug/L	1	0.28	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	0I29013	EPA 8260B	09/29/10 19:07	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*53*	*1*	*50.0*	*106 %*	*51-122*	*0I29013*	*EPA 8260B*	*09/29/10 19:07*	*JKG*	
Dibromofluoromethane	*34*	*1*	*50.0*	*68 %*	*69-117*	*0I29013*	*EPA 8260B*	*09/29/10 19:07*	*JKG*	
Toluene-d8	*37*	*1*	*50.0*	*74 %*	*69-110*	*0I29013*	*EPA 8260B*	*09/29/10 19:07*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: Trip Blank
Matrix: Water
Project: Atkinson Street Contamination

Lab Sample ID: C011553-07
Sampled: 09/21/10 12:20
Sampled By: ENCO

Received: 09/21/10 15:50
Work Order: C011553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.25	U	ug/L	1	0.25	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.94	U	ug/L	1	0.94	5.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
2-Chlorotoluene [95-49-8] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
4-Chlorotoluene [106-43-4] ^	0.25	U	ug/L	1	0.25	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
4-Isopropyltoluene [99-87-6] ^	0.26	U	ug/L	1	0.26	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
Acetone [67-64-1] ^	**3.7**	J	ug/L	1	1.5	5.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
Bromobenzene [108-86-1] ^	0.28	U	ug/L	1	0.28	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
Isopropylbenzene [98-82-8] ^	0.24	U	ug/L	1	0.24	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.48	U	ug/L	1	0.48	2.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	

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Description: Trip Blank
Matrix: Water
Project: Atkinson Street Contamination

Lab Sample ID: C011553-07
Sampled: 09/21/10 12:20
Sampled By: ENCO

Received: 09/21/10 15:50
Work Order: C011553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
n-Butyl Benzene [104-51-8] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
n-Propyl Benzene [103-65-1] ^	0.30	U	ug/L	1	0.30	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
o-Xylene [95-47-6] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
sec-Butylbenzene [135-98-8] ^	0.24	U	ug/L	1	0.24	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
tert-Butylbenzene [98-06-6] ^	0.28	U	ug/L	1	0.28	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	0I29013	EPA 8260B	09/29/10 15:38	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*56*	*1*	*50.0*	*113 %*	*51-122*	*0I29013*	*EPA 8260B*	*09/29/10 15:38*	*JKG*	
Dibromofluoromethane	*33*	*1*	*50.0*	*67 %*	*68-117*	*0I29013*	*EPA 8260B*	*09/29/10 15:38*	*JKG*	*QS-03*
Toluene-d8	*38*	*1*	*50.0*	*76 %*	*69-110*	*0I29013*	*EPA 8260B*	*09/29/10 15:38*	*JKG*	

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I24005 - EPA 5030B_MS

Blank (0I24005-BLK1) Prepared: 09/24/2010 08:56 Analyzed: 09/24/2010 23:22

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,1-Dichloropropene	0.32	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.25	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.36	U	1.0	ug/L							
1,2,4-Trimethylbenzene	0.20	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,3,5-Trimethylbenzene	0.25	U	1.0	ug/L							
1,3-Dichlorobenzene	0.30	U	1.0	ug/L							
1,3-Dichloropropane	0.32	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2,2-Dichloropropane	0.55	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Chloroethyl Vinyl Ether	0.94	U	5.0	ug/L							
2-Chlorotoluene	0.20	U	1.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Chlorotoluene	0.25	U	1.0	ug/L							
4-Isopropyltoluene	0.26	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromobenzene	0.28	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Dichlorodifluoromethane	0.38	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Hexachlorobutadiene	0.35	U	1.0	ug/L							
Isopropylbenzene	0.24	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I24005 - EPA 5030B_MS

Blank (0I24005-BLK1) Continued Prepared: 09/24/2010 08:56 Analyzed: 09/24/2010 23:22

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
m,p-Xylenes	0.48	U	2.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.38	U	1.0	ug/L							
Naphthalene	0.39	U	1.0	ug/L							
n-Butyl Benzene	0.20	U	1.0	ug/L							
n-Propyl Benzene	0.30	U	1.0	ug/L							
o-Xylene	0.27	U	1.0	ug/L							
sec-Butylbenzene	0.24	U	1.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
tert-Butylbenzene	0.28	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*88*	*51-122*			
Surrogate: Dibromofluoromethane	*38*			*ug/L*	*50.0*		*75*	*68-117*			
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*85*	*69-110*			

LCS (0I24005-BS1) Prepared: 09/24/2010 08:56 Analyzed: 09/24/2010 23:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0		88	75-133			
Benzene	21		1.0	ug/L	20.0		105	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		105	83-117			
Toluene	20		1.0	ug/L	20.0		101	71-118			
Trichloroethene	20		1.0	ug/L	20.0		99	75-115			
Surrogate: 4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*93*	*51-122*			
Surrogate: Dibromofluoromethane	*39*			*ug/L*	*50.0*		*79*	*68-117*			
Surrogate: Toluene-d8	*44*			*ug/L*	*50.0*		*87*	*69-110*			

Matrix Spike (0I24005-MS1) Prepared: 09/24/2010 08:56 Analyzed: 09/25/2010 00:22

Source: C011622-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0	0.24 U	83	75-133			
Benzene	20		1.0	ug/L	20.0	0.20 U	98	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	98	83-117			
Toluene	19		1.0	ug/L	20.0	0.27 U	95	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	94	75-115			
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*90*	*51-122*			
Surrogate: Dibromofluoromethane	*38*			*ug/L*	*50.0*		*75*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*84*	*69-110*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I24005 - EPA 5030B_MS

Matrix Spike Dup (0I24005-MSD1) Prepared: 09/24/2010 08:56 Analyzed: 09/25/2010 00:51

Source: C011622-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0	0.24 U	83	75-133	0.1	20	
Benzene	19		1.0	ug/L	20.0	0.20 U	96	81-134	2	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.27 U	97	83-117	1	16	
Toluene	19		1.0	ug/L	20.0	0.27 U	94	71-118	1	17	
Trichloroethene	18		1.0	ug/L	20.0	0.38 U	92	75-115	2	18	
Surrogate: 4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*91*	*51-122*			
Surrogate: Dibromofluoromethane	*39*			*ug/L*	*50.0*		*77*	*68-117*			
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*86*	*69-110*			

Batch 0I29013 - EPA 5030B_MS

Blank (0I29013-BLK1) Prepared: 09/29/2010 09:21 Analyzed: 09/29/2010 12:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,1-Dichloropropene	0.32	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.25	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.36	U	1.0	ug/L							
1,2,4-Trimethylbenzene	0.20	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,3,5-Trimethylbenzene	0.25	U	1.0	ug/L							
1,3-Dichlorobenzene	0.30	U	1.0	ug/L							
1,3-Dichloropropane	0.32	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2,2-Dichloropropane	0.55	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Chloroethyl Vinyl Ether	0.94	U	5.0	ug/L							
2-Chlorotoluene	0.20	U	1.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Chlorotoluene	0.25	U	1.0	ug/L							
4-Isopropyltoluene	0.26	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromobenzene	0.28	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I29013 - EPA 5030B_MS

Blank (0I29013-BLK1) Continued Prepared: 09/29/2010 09:21 Analyzed: 09/29/2010 12:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Dichlorodifluoromethane	0.38	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Hexachlorobutadiene	0.35	U	1.0	ug/L							
Isopropylbenzene	0.24	U	1.0	ug/L							
m,p-Xylenes	0.48	U	2.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.38	U	1.0	ug/L							
Naphthalene	0.39	U	1.0	ug/L							
n-Butyl Benzene	0.20	U	1.0	ug/L							
n-Propyl Benzene	0.30	U	1.0	ug/L							
o-Xylene	0.27	U	1.0	ug/L							
sec-Butylbenzene	0.24	U	1.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
tert-Butylbenzene	0.28	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*51*			*ug/L*	*50.0*		*102*	*51-122*			
Surrogate: Dibromofluoromethane	*34*			*ug/L*	*50.0*		*68*	*68-117*			
Surrogate: Toluene-d8	*38*			*ug/L*	*50.0*		*75*	*69-110*			

LCS (0I29013-BS1) Prepared: 09/29/2010 09:21 Analyzed: 09/29/2010 13:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0		92	75-133			
Benzene	23		1.0	ug/L	20.0		116	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		95	83-117			
Toluene	18		1.0	ug/L	20.0		92	71-118			
Trichloroethene	19		1.0	ug/L	20.0		97	75-115			
Surrogate: 4-Bromofluorobenzene	*54*			*ug/L*	*50.0*		*108*	*51-122*			
Surrogate: Dibromofluoromethane	*35*			*ug/L*	*50.0*		*69*	*68-117*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I29013 - EPA 5030B_MS

LCS (0I29013-BS1) Continued Prepared: 09/29/2010 09:21 Analyzed: 09/29/2010 13:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Toluene-d8	*39*			*ug/L*	*50.0*		*78*	*69-110*			

Matrix Spike (0I29013-MS1) Prepared: 09/29/2010 09:21 Analyzed: 09/29/2010 13:40

Source: C011709-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.24 U	95	75-133			
Benzene	24		1.0	ug/L	20.0	0.20 U	118	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.27 U	95	83-117			
Toluene	18		1.0	ug/L	20.0	0.27 U	92	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	97	75-115			
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*105*	*51-122*			
Surrogate: Dibromofluoromethane	*34*			*ug/L*	*50.0*		*68*	*68-117*			
Surrogate: Toluene-d8	*38*			*ug/L*	*50.0*		*76*	*69-110*			

Matrix Spike Dup (0I29013-MSD1) Prepared: 09/29/2010 09:21 Analyzed: 09/29/2010 14:10

Source: C011709-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.24 U	93	75-133	2	20	
Benzene	23		1.0	ug/L	20.0	0.20 U	116	81-134	2	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.27 U	94	83-117	1	16	
Toluene	18		1.0	ug/L	20.0	0.27 U	89	71-118	3	17	
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	95	75-115	3	18	
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*105*	*51-122*			
Surrogate: Dibromofluoromethane	*34*			*ug/L*	*50.0*		*68*	*68-117*			
Surrogate: Toluene-d8	*38*			*ug/L*	*50.0*		*76*	*69-110*			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
QS-03	Surrogate recovery outside acceptance limits

ENVIRONMENTAL CONSERVATION LABORATORIES
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Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

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CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Client Name: S&ME, Inc. (SM001)	Project Number: 1054-10-2002	Requested Analyses: 8260B	Requested Turnaround Times: Note: Rush requests subject to acceptance by the facility. X Standard ___ Expedited Due ___/___/___
Address: 3201 Spring Forest Road	Project Name/Desc: Atkinson Street Contamination		
City/ST/Zip: Raleigh, NC 27616	PO # / Billing Info		
Tel: (919) 872-2660 Fax: (919) 876-3958	Reporting Contact: Ed Woloszyn		
Sampler(s) Name, Affiliation (Print): Gerald Paul Stine	Billing Contact: Accounts Payable		Lab Workorder: 11553 CO ~~10371~~
Sampler(s) Signature:	Site Location / Time Zone: Hamlet, NC		

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Sample Comments
	DMW-1	9/21/10	1220	GRAB	GW	3	
	DMW-2	↓	1126	↓	GW	3	
	DMW-3	↓	1038	↓	GW	3	
	SMW-3	↓	1310	↓	GW	3	
	~~Haught Residence - WSW-1~~				~~GW~~	~~3~~	No Sample
	~~Jernigan Residence - WSW-2~~				~~GW~~	~~3~~	No Sample
	~~Sutter Residence - WSW-3~~				~~GW~~	~~3~~	No Sample
	Dup	↓	—	↓	GW	3	
	Equip Blank	↓	1400	↓	WA	3	
	Trip Blank	—	—	—	WA	2	

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		[signature]	9/21/10 1550	[signature]	9/21/10 1550
Comments, Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler # s & Temps on Receipt: 2.4°C		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix: GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist.

www.encolabs.com

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515

www.encolabs.com

Tuesday, September 28, 2010

S&ME, Inc. (SM001)

Attn: Ed Woloszyn

3201 Spring Forest Road

Raleigh, NC 27616

RE: Laboratory Results for
Project Number: 1054-10-2002, Project Name/Desc: Atkinson Street Contamination
ENCO Workorder: C011145

Dear Ed Woloszyn,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, September 17, 2010.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 22.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID:	DMW-1 (13-15')	Lab ID: C011145-01	Sampled: 09/14/10 16:00	Received: 09/17/10 18:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**		**Analysis Date/Time(s)**
EPA 8260B	09/28/10	09/23/10	07:51	9/23/2010 16:25

Client ID:	DMW-2 (8.5-10')	Lab ID: C011145-02	Sampled: 09/16/10 09:45	Received: 09/17/10 18:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**		**Analysis Date/Time(s)**
EPA 8260B	09/30/10	09/23/10	07:51	9/23/2010 16:54

Client ID:	DMW-3 (8.5-10')	Lab ID: C011145-03	Sampled: 09/17/10 09:00	Received: 09/17/10 18:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**		**Analysis Date/Time(s)**
EPA 8260B	10/01/10	09/23/10	07:51	9/23/2010 17:23

Client ID:	SMW-3 (13-15')	Lab ID: C011145-04	Sampled: 09/13/10 13:30	Received: 09/17/10 18:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**		**Analysis Date/Time(s)**
EPA 8260B	09/27/10	09/23/10	07:51	9/23/2010 17:52

Client ID:	Trip Blank	Lab ID: C011145-05	Sampled: 09/14/10 16:00	Received: 09/17/10 18:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**		**Analysis Date/Time(s)**
EPA 8260B	09/28/10	09/23/10	12:28	9/23/2010 19:12

Client ID:	Duplicate Soil	Lab ID: C011145-06	Sampled: 09/17/10 00:00	Received: 09/17/10 18:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**		**Analysis Date/Time(s)**
EPA 8260B	10/01/10	09/23/10	07:51	9/23/2010 18:21

SAMPLE DETECTION SUMMARY

Client ID: DMW-1 (13-15')			Lab ID: C011145-01				
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
Acetone	0.011		0.0011	0.0047	mg/kg dry	EPA 8260B	
Naphthalene	0.00087	J	0.00023	0.00095	mg/kg dry	EPA 8260B	

Client ID: DMW-2 (8.5-10')			Lab ID: C011145-02				
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
Acetone	0.0056		0.0012	0.0050	mg/kg dry	EPA 8260B	

Client ID: DMW-3 (8.5-10')			Lab ID: C011145-03				
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
Tetrachloroethene	0.00046	J	0.00026	0.00093	mg/kg dry	EPA 8260B	

Client ID: SMW-3 (13-15')			Lab ID: C011145-04				
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
Acetone	0.0055	J	0.0013	0.0056	mg/kg dry	EPA 8260B	
Tetrachloroethene	0.00072	J	0.00031	0.0011	mg/kg dry	EPA 8260B	

Client ID: Duplicate Soil			Lab ID: C011145-06				
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
Acetone	0.0071		0.0011	0.0046	mg/kg dry	EPA 8260B	
Toluene	0.00040	J	0.00018	0.00091	mg/kg dry	EPA 8260B	

ANALYTICAL RESULTS

Description: DMW-1 (13-15')
Matrix: Soil
Project: Atkinson Street Contamination

Lab Sample ID: C011145-01
Sampled: 09/14/10 16:00
Sampled By: Gerald Paul

Received: 09/17/10 18:30
Work Order: C011145
% Solids: 85.5

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.00015	U	mg/kg dry	1	0.00015	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.00019	U	mg/kg dry	1	0.00019	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.00022	U	mg/kg dry	1	0.00022	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
1,1-Dichloroethane [75-34-3] ^	0.00024	U	mg/kg dry	1	0.00024	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
1,1-Dichloroethene [75-35-4] ^	0.00028	U	mg/kg dry	1	0.00028	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
1,1-Dichloropropene [563-58-6] ^	0.00030	U	mg/kg dry	1	0.00030	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.00020	U	mg/kg dry	1	0.00020	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.00032	U	mg/kg dry	1	0.00032	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.00026	U	mg/kg dry	1	0.00026	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.00016	U	mg/kg dry	1	0.00016	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.00075	U	mg/kg dry	1	0.00075	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
1,2-Dibromoethane [106-93-4] ^	0.00044	U	mg/kg dry	1	0.00044	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.00026	U	mg/kg dry	1	0.00026	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
1,2-Dichloroethane [107-06-2] ^	0.00036	U	mg/kg dry	1	0.00036	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
1,2-Dichloropropane [78-87-5] ^	0.00025	U	mg/kg dry	1	0.00025	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.00019	U	mg/kg dry	1	0.00019	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.00021	U	mg/kg dry	1	0.00021	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
1,3-Dichloropropane [142-28-9] ^	0.00027	U	mg/kg dry	1	0.00027	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.00019	U	mg/kg dry	1	0.00019	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
2,2-Dichloropropane [594-20-7] ^	0.00022	U	mg/kg dry	1	0.00022	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
2-Butanone [78-93-3] ^	0.00074	U	mg/kg dry	1	0.00074	0.0047	0I23003	EPA 8260B	09/23/10 16:25	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.00046	U	mg/kg dry	1	0.00046	0.0047	0I23003	EPA 8260B	09/23/10 16:25	JKG	
2-Chlorotoluene [95-49-8] ^	0.00017	U	mg/kg dry	1	0.00017	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
2-Hexanone [591-78-6] ^	0.00071	U	mg/kg dry	1	0.00071	0.0047	0I23003	EPA 8260B	09/23/10 16:25	JKG	
4-Chlorotoluene [106-43-4] ^	0.00025	U	mg/kg dry	1	0.00025	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
4-Isopropyltoluene [99-87-6] ^	0.00015	U	mg/kg dry	1	0.00015	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.00054	U	mg/kg dry	1	0.00054	0.0047	0I23003	EPA 8260B	09/23/10 16:25	JKG	
Acetone [67-64-1] ^	**0.011**		mg/kg dry	1	0.0011	0.0047	0I23003	EPA 8260B	09/23/10 16:25	JKG	
Benzene [71-43-2] ^	0.00016	U	mg/kg dry	1	0.00016	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
Bromobenzene [108-86-1] ^	0.00021	U	mg/kg dry	1	0.00021	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
Bromochloromethane [74-97-5] ^	0.00039	U	mg/kg dry	1	0.00039	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
Bromodichloromethane [75-27-4] ^	0.00023	U	mg/kg dry	1	0.00023	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
Bromoform [75-25-2] ^	0.00043	U	mg/kg dry	1	0.00043	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
Bromomethane [74-83-9] ^	0.00022	U	mg/kg dry	1	0.00022	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
Carbon disulfide [75-15-0] ^	0.00037	U	mg/kg dry	1	0.00037	0.0047	0I23003	EPA 8260B	09/23/10 16:25	JKG	
Carbon Tetrachloride [56-23-5] ^	0.00021	U	mg/kg dry	1	0.00021	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
Chlorobenzene [108-90-7] ^	0.00016	U	mg/kg dry	1	0.00016	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
Chloroethane [75-00-3] ^	0.00024	U	mg/kg dry	1	0.00024	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
Chloroform [67-66-3] ^	0.00016	U	mg/kg dry	1	0.00016	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
Chloromethane [74-87-3] ^	0.00014	U	mg/kg dry	1	0.00014	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.00022	U	mg/kg dry	1	0.00022	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.00012	U	mg/kg dry	1	0.00012	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
Dibromochloromethane [124-48-1] ^	0.00033	U	mg/kg dry	1	0.00033	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
Dibromomethane [74-95-3] ^	0.00029	U	mg/kg dry	1	0.00029	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.00043	U	mg/kg dry	1	0.00043	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
Ethylbenzene [100-41-4] ^	0.00019	U	mg/kg dry	1	0.00019	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	
Hexachlorobutadiene [87-68-3] ^	0.00033	U	mg/kg dry	1	0.00033	0.00095	0I23003	EPA 8260B	09/23/10 16:25	JKG	

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Description: DMW-1 (13-15')
Matrix: Soil
Project: Atkinson Street Contamination

Lab Sample ID: C011145-01
Sampled: 09/14/10 16:00
Sampled By: Gerald Paul

Received: 09/17/10 18:30
Work Order: C011145
% Solids: 85.5

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Isopropylbenzene [98-82-8] ^	0.00014	U	mg/kg dry	1	0.00014	0.00095	0123003	EPA 8260B	09/23/10 16:25	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.00035	U	mg/kg dry	1	0.00035	0.0019	0123003	EPA 8260B	09/23/10 16:25	JKG	
Methylene Chloride [75-09-2] ^	0.00053	U	mg/kg dry	1	0.00053	0.00095	0123003	EPA 8260B	09/23/10 16:25	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.00028	U	mg/kg dry	1	0.00028	0.00095	0123003	EPA 8260B	09/23/10 16:25	JKG	
Naphthalene [91-20-3] ^	**0.00087**	J	mg/kg dry	1	0.00023	0.00095	0123003	EPA 8260B	09/23/10 16:25	JKG	
n-Butyl Benzene [104-51-8] ^	0.00021	U	mg/kg dry	1	0.00021	0.00095	0123003	EPA 8260B	09/23/10 16:25	JKG	
n-Propyl Benzene [103-65-1] ^	0.00017	U	mg/kg dry	1	0.00017	0.00095	0123003	EPA 8260B	09/23/10 16:25	JKG	
o-Xylene [95-47-6] ^	0.00021	U	mg/kg dry	1	0.00021	0.00095	0123003	EPA 8260B	09/23/10 16:25	JKG	
sec-Butylbenzene [135-98-8] ^	0.00021	U	mg/kg dry	1	0.00021	0.00095	0123003	EPA 8260B	09/23/10 16:25	JKG	
Styrene [100-42-5] ^	0.00016	U	mg/kg dry	1	0.00016	0.00095	0123003	EPA 8260B	09/23/10 16:25	JKG	
tert-Butylbenzene [98-06-6] ^	0.00015	U	mg/kg dry	1	0.00015	0.00095	0123003	EPA 8260B	09/23/10 16:25	JKG	
Tetrachloroethene [127-18-4] ^	0.00027	U	mg/kg dry	1	0.00027	0.00095	0123003	EPA 8260B	09/23/10 16:25	JKG	
Toluene [108-88-3] ^	0.00019	U	mg/kg dry	1	0.00019	0.00095	0123003	EPA 8260B	09/23/10 16:25	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.00035	U	mg/kg dry	1	0.00035	0.00095	0123003	EPA 8260B	09/23/10 16:25	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.00037	U	mg/kg dry	1	0.00037	0.00095	0123003	EPA 8260B	09/23/10 16:25	JKG	
Trichloroethene [79-01-6] ^	0.00026	U	mg/kg dry	1	0.00026	0.00095	0123003	EPA 8260B	09/23/10 16:25	JKG	
Trichlorofluoromethane [75-69-4] ^	0.00025	U	mg/kg dry	1	0.00025	0.00095	0123003	EPA 8260B	09/23/10 16:25	JKG	
Vinyl chloride [75-01-4] ^	0.00023	U	mg/kg dry	1	0.00023	0.00095	0123003	EPA 8260B	09/23/10 16:25	JKG	
Xylenes (Total) [1330-20-7] ^	0.00053	U	mg/kg dry	1	0.00053	0.00095	0123003	EPA 8260B	09/23/10 16:25	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*89 %*	*61-118*	*0123003*	*EPA 8260B*	*09/23/10 16:25*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*84 %*	*66-114*	*0123003*	*EPA 8260B*	*09/23/10 16:25*	*JKG*	
Toluene-d8	*45*	*1*	*50.0*	*90 %*	*63-118*	*0123003*	*EPA 8260B*	*09/23/10 16:25*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: DMW-2 (8.5-10')
Matrix: Soil
Project: Atkinson Street Contamination

Lab Sample ID: C011145-02
Sampled: 09/16/10 09:45
Sampled By: Gerald Paul

Received: 09/17/10 18:30
Work Order: C011145
% Solids: 86.0

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.00016	U	mg/kg dry	1	0.00016	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.00018	U	mg/kg dry	1	0.00018	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.00020	U	mg/kg dry	1	0.00020	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.00023	U	mg/kg dry	1	0.00023	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
1,1-Dichloroethane [75-34-3] ^	0.00025	U	mg/kg dry	1	0.00025	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
1,1-Dichloroethene [75-35-4] ^	0.00030	U	mg/kg dry	1	0.00030	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
1,1-Dichloropropene [563-58-6] ^	0.00032	U	mg/kg dry	1	0.00032	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.00021	U	mg/kg dry	1	0.00021	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.00034	U	mg/kg dry	1	0.00034	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.00027	U	mg/kg dry	1	0.00027	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.00078	U	mg/kg dry	1	0.00078	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
1,2-Dibromoethane [106-93-4] ^	0.00046	U	mg/kg dry	1	0.00046	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.00027	U	mg/kg dry	1	0.00027	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
1,2-Dichloroethane [107-06-2] ^	0.00038	U	mg/kg dry	1	0.00038	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
1,2-Dichloropropane [78-87-5] ^	0.00026	U	mg/kg dry	1	0.00026	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.00020	U	mg/kg dry	1	0.00020	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.00022	U	mg/kg dry	1	0.00022	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
1,3-Dichloropropane [142-28-9] ^	0.00029	U	mg/kg dry	1	0.00029	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.00020	U	mg/kg dry	1	0.00020	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
2,2-Dichloropropane [594-20-7] ^	0.00023	U	mg/kg dry	1	0.00023	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
2-Butanone [78-93-3] ^	0.00077	U	mg/kg dry	1	0.00077	0.0050	0I23003	EPA 8260B	09/23/10 16:54	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.00049	U	mg/kg dry	1	0.00049	0.0050	0I23003	EPA 8260B	09/23/10 16:54	JKG	
2-Chlorotoluene [95-49-8] ^	0.00018	U	mg/kg dry	1	0.00018	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
2-Hexanone [591-78-6] ^	0.00074	U	mg/kg dry	1	0.00074	0.0050	0I23003	EPA 8260B	09/23/10 16:54	JKG	
4-Chlorotoluene [106-43-4] ^	0.00026	U	mg/kg dry	1	0.00026	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
4-Isopropyltoluene [99-87-6] ^	0.00016	U	mg/kg dry	1	0.00016	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.00056	U	mg/kg dry	1	0.00056	0.0050	0I23003	EPA 8260B	09/23/10 16:54	JKG	
Acetone [67-64-1] ^	**0.0056**		mg/kg dry	1	0.0012	0.0050	0I23003	EPA 8260B	09/23/10 16:54	JKG	
Benzene [71-43-2] ^	0.00017	U	mg/kg dry	1	0.00017	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
Bromobenzene [108-86-1] ^	0.00022	U	mg/kg dry	1	0.00022	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
Bromochloromethane [74-97-5] ^	0.00041	U	mg/kg dry	1	0.00041	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
Bromodichloromethane [75-27-4] ^	0.00024	U	mg/kg dry	1	0.00024	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
Bromoform [75-25-2] ^	0.00045	U	mg/kg dry	1	0.00045	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
Bromomethane [74-83-9] ^	0.00023	U	mg/kg dry	1	0.00023	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
Carbon disulfide [75-15-0] ^	0.00039	U	mg/kg dry	1	0.00039	0.0050	0I23003	EPA 8260B	09/23/10 16:54	JKG	
Carbon Tetrachloride [56-23-5] ^	0.00022	U	mg/kg dry	1	0.00022	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
Chlorobenzene [108-90-7] ^	0.00017	U	mg/kg dry	1	0.00017	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
Chloroethane [75-00-3] ^	0.00025	U	mg/kg dry	1	0.00025	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
Chloroform [67-66-3] ^	0.00017	U	mg/kg dry	1	0.00017	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
Chloromethane [74-87-3] ^	0.00015	U	mg/kg dry	1	0.00015	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.00023	U	mg/kg dry	1	0.00023	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.00013	U	mg/kg dry	1	0.00013	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
Dibromochloromethane [124-48-1] ^	0.00035	U	mg/kg dry	1	0.00035	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
Dibromomethane [74-95-3] ^	0.00031	U	mg/kg dry	1	0.00031	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.00045	U	mg/kg dry	1	0.00045	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
Ethylbenzene [100-41-4] ^	0.00020	U	mg/kg dry	1	0.00020	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
Hexachlorobutadiene [87-68-3] ^	0.00035	U	mg/kg dry	1	0.00035	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
Isopropylbenzene [98-82-8] ^	0.00015	U	mg/kg dry	1	0.00015	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.00037	U	mg/kg dry	1	0.00037	0.0020	0I23003	EPA 8260B	09/23/10 16:54	JKG	
Methylene Chloride [75-09-2] ^	0.00055	U	mg/kg dry	1	0.00055	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	

Description: DMW-2 (8.5-10')
Matrix: Soil
Project: Atkinson Street Contamination

Lab Sample ID: C011145-02
Sampled: 09/16/10 09:45
Sampled By: Gerald Paul

Received: 09/17/10 18:30
Work Order: C011145
% Solids: 86.0

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.00030	U	mg/kg dry	1	0.00030	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
Naphthalene [91-20-3] ^	0.00024	U	mg/kg dry	1	0.00024	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
n-Butyl Benzene [104-51-8] ^	0.00022	U	mg/kg dry	1	0.00022	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
n-Propyl Benzene [103-65-1] ^	0.00018	U	mg/kg dry	1	0.00018	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
o-Xylene [95-47-6] ^	0.00022	U	mg/kg dry	1	0.00022	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
sec-Butylbenzene [135-98-8] ^	0.00022	U	mg/kg dry	1	0.00022	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
Styrene [100-42-5] ^	0.00017	U	mg/kg dry	1	0.00017	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
tert-Butylbenzene [98-06-6] ^	0.00016	U	mg/kg dry	1	0.00016	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
Tetrachloroethene [127-18-4] ^	0.00028	U	mg/kg dry	1	0.00028	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
Toluene [108-88-3] ^	0.00020	U	mg/kg dry	1	0.00020	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.00037	U	mg/kg dry	1	0.00037	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.00039	U	mg/kg dry	1	0.00039	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
Trichloroethene [79-01-6] ^	0.00027	U	mg/kg dry	1	0.00027	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
Trichlorofluoromethane [75-69-4] ^	0.00026	U	mg/kg dry	1	0.00026	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
Vinyl chloride [75-01-4] ^	0.00024	U	mg/kg dry	1	0.00024	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	
Xylenes (Total) [1330-20-7] ^	0.00055	U	mg/kg dry	1	0.00055	0.00099	0I23003	EPA 8260B	09/23/10 16:54	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	*Notes*
4-Bromofluorobenzene	*44*	*1*	*50.0*	*87 %*	*61-118*	*0I23003*	*EPA 8260B*	*09/23/10 16:54*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*83 %*	*66-114*	*0I23003*	*EPA 8260B*	*09/23/10 16:54*	*JKG*	
Toluene-d8	*45*	*1*	*50.0*	*89 %*	*63-118*	*0I23003*	*EPA 8260B*	*09/23/10 16:54*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Description: DMW-3 (8.5-10')
Matrix: Soil
Project: Atkinson Street Contamination

Lab Sample ID: C011145-03
Sampled: 09/17/10 09:00
Sampled By: Gerald Paul

Received: 09/17/10 18:30
Work Order: C011145
% Solids: 87.2

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.00015	U	mg/kg dry	1	0.00015	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.00019	U	mg/kg dry	1	0.00019	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.00021	U	mg/kg dry	1	0.00021	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
1,1-Dichloroethane [75-34-3] ^	0.00023	U	mg/kg dry	1	0.00023	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
1,1-Dichloroethene [75-35-4] ^	0.00028	U	mg/kg dry	1	0.00028	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
1,1-Dichloropropene [563-58-6] ^	0.00030	U	mg/kg dry	1	0.00030	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.00020	U	mg/kg dry	1	0.00020	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.00032	U	mg/kg dry	1	0.00032	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.00025	U	mg/kg dry	1	0.00025	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.00016	U	mg/kg dry	1	0.00016	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.00073	U	mg/kg dry	1	0.00073	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
1,2-Dibromoethane [106-93-4] ^	0.00043	U	mg/kg dry	1	0.00043	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.00025	U	mg/kg dry	1	0.00025	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
1,2-Dichloroethane [107-06-2] ^	0.00035	U	mg/kg dry	1	0.00035	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
1,2-Dichloropropane [78-87-5] ^	0.00024	U	mg/kg dry	1	0.00024	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.00019	U	mg/kg dry	1	0.00019	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.00020	U	mg/kg dry	1	0.00020	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
1,3-Dichloropropane [142-28-9] ^	0.00027	U	mg/kg dry	1	0.00027	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.00019	U	mg/kg dry	1	0.00019	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
2,2-Dichloropropane [594-20-7] ^	0.00021	U	mg/kg dry	1	0.00021	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
2-Butanone [78-93-3] ^	0.00072	U	mg/kg dry	1	0.00072	0.0046	0I23003	EPA 8260B	09/23/10 17:23	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.00046	U	mg/kg dry	1	0.00046	0.0046	0I23003	EPA 8260B	09/23/10 17:23	JKG	
2-Chlorotoluene [95-49-8] ^	0.00017	U	mg/kg dry	1	0.00017	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
2-Hexanone [591-78-6] ^	0.00070	U	mg/kg dry	1	0.00070	0.0046	0I23003	EPA 8260B	09/23/10 17:23	JKG	
4-Chlorotoluene [106-43-4] ^	0.00024	U	mg/kg dry	1	0.00024	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
4-Isopropyltoluene [99-87-6] ^	0.00015	U	mg/kg dry	1	0.00015	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.00053	U	mg/kg dry	1	0.00053	0.0046	0I23003	EPA 8260B	09/23/10 17:23	JKG	
Acetone [67-64-1] ^	0.0011	U	mg/kg dry	1	0.0011	0.0046	0I23003	EPA 8260B	09/23/10 17:23	JKG	
Benzene [71-43-2] ^	0.00016	U	mg/kg dry	1	0.00016	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
Bromobenzene [108-86-1] ^	0.00020	U	mg/kg dry	1	0.00020	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
Bromochloromethane [74-97-5] ^	0.00038	U	mg/kg dry	1	0.00038	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
Bromodichloromethane [75-27-4] ^	0.00022	U	mg/kg dry	1	0.00022	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
Bromoform [75-25-2] ^	0.00042	U	mg/kg dry	1	0.00042	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
Bromomethane [74-83-9] ^	0.00021	U	mg/kg dry	1	0.00021	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
Carbon disulfide [75-15-0] ^	0.00036	U	mg/kg dry	1	0.00036	0.0046	0I23003	EPA 8260B	09/23/10 17:23	JKG	
Carbon Tetrachloride [56-23-5] ^	0.00020	U	mg/kg dry	1	0.00020	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
Chlorobenzene [108-90-7] ^	0.00016	U	mg/kg dry	1	0.00016	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
Chloroethane [75-00-3] ^	0.00023	U	mg/kg dry	1	0.00023	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
Chloroform [67-66-3] ^	0.00016	U	mg/kg dry	1	0.00016	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
Chloromethane [74-87-3] ^	0.00014	U	mg/kg dry	1	0.00014	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.00021	U	mg/kg dry	1	0.00021	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.00012	U	mg/kg dry	1	0.00012	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
Dibromochloromethane [124-48-1] ^	0.00033	U	mg/kg dry	1	0.00033	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
Dibromomethane [74-95-3] ^	0.00029	U	mg/kg dry	1	0.00029	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.00042	U	mg/kg dry	1	0.00042	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
Ethylbenzene [100-41-4] ^	0.00019	U	mg/kg dry	1	0.00019	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
Hexachlorobutadiene [87-68-3] ^	0.00033	U	mg/kg dry	1	0.00033	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
Isopropylbenzene [98-82-8] ^	0.00014	U	mg/kg dry	1	0.00014	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.00034	U	mg/kg dry	1	0.00034	0.0019	0I23003	EPA 8260B	09/23/10 17:23	JKG	
Methylene Chloride [75-09-2] ^	0.00052	U	mg/kg dry	1	0.00052	0.00093	0I23003	EPA 8260B	09/23/10 17:23	JKG	

Description: DMW-3 (8.5-10')
Matrix: Soil
Project: Atkinson Street Contamination

Lab Sample ID: C011145-03
Sampled: 09/17/10 09:00
Sampled By: Gerald Paul

Received: 09/17/10 18:30
Work Order: C011145
% Solids: 87.2

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.00028	U	mg/kg dry	1	0.00028	0.00093	0123003	EPA 8260B	09/23/10 17:23	JKG	
Naphthalene [91-20-3] ^	0.00022	U	mg/kg dry	1	0.00022	0.00093	0123003	EPA 8260B	09/23/10 17:23	JKG	
n-Butyl Benzene [104-51-8] ^	0.00020	U	mg/kg dry	1	0.00020	0.00093	0123003	EPA 8260B	09/23/10 17:23	JKG	
n-Propyl Benzene [103-65-1] ^	0.00017	U	mg/kg dry	1	0.00017	0.00093	0123003	EPA 8260B	09/23/10 17:23	JKG	
o-Xylene [95-47-6] ^	0.00020	U	mg/kg dry	1	0.00020	0.00093	0123003	EPA 8260B	09/23/10 17:23	JKG	
sec-Butylbenzene [135-98-8] ^	0.00020	U	mg/kg dry	1	0.00020	0.00093	0123003	EPA 8260B	09/23/10 17:23	JKG	
Styrene [100-42-5] ^	0.00016	U	mg/kg dry	1	0.00016	0.00093	0123003	EPA 8260B	09/23/10 17:23	JKG	
tert-Butylbenzene [98-06-6] ^	0.00015	U	mg/kg dry	1	0.00015	0.00093	0123003	EPA 8260B	09/23/10 17:23	JKG	
Tetrachloroethene [127-18-4] ^	**0.00046**	J	mg/kg dry	1	0.00026	0.00093	0123003	EPA 8260B	09/23/10 17:23	JKG	
Toluene [108-88-3] ^	0.00019	U	mg/kg dry	1	0.00019	0.00093	0123003	EPA 8260B	09/23/10 17:23	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.00034	U	mg/kg dry	1	0.00034	0.00093	0123003	EPA 8260B	09/23/10 17:23	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.00036	U	mg/kg dry	1	0.00036	0.00093	0123003	EPA 8260B	09/23/10 17:23	JKG	
Trichloroethene [79-01-6] ^	0.00025	U	mg/kg dry	1	0.00025	0.00093	0123003	EPA 8260B	09/23/10 17:23	JKG	
Trichlorofluoromethane [75-69-4] ^	0.00024	U	mg/kg dry	1	0.00024	0.00093	0123003	EPA 8260B	09/23/10 17:23	JKG	
Vinyl chloride [75-01-4] ^	0.00022	U	mg/kg dry	1	0.00022	0.00093	0123003	EPA 8260B	09/23/10 17:23	JKG	
Xylenes (Total) [1330-20-7] ^	0.00052	U	mg/kg dry	1	0.00052	0.00093	0123003	EPA 8260B	09/23/10 17:23	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*43*	*1*	*50.0*	*87 %*	*61-118*	*0123003*	*EPA 8260B*	*09/23/10 17:23*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*83 %*	*66-114*	*0123003*	*EPA 8260B*	*09/23/10 17:23*	*JKG*	
Toluene-d8	*45*	*1*	*50.0*	*89 %*	*63-118*	*0123003*	*EPA 8260B*	*09/23/10 17:23*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Description: SMW-3 (13-15')
Matrix: Soil
Project: Atkinson Street Contamination

Lab Sample ID: C011145-04
Sampled: 09/13/10 13:30
Sampled By: Gerald Paul

Received: 09/17/10 18:30
Work Order: C011145
% Solids: 89.8

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.00020	U	mg/kg dry	1	0.00020	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
1,1-Dichloroethane [75-34-3] ^	0.00028	U	mg/kg dry	1	0.00028	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
1,1-Dichloroethene [75-35-4] ^	0.00033	U	mg/kg dry	1	0.00033	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
1,1-Dichloropropene [563-58-6] ^	0.00036	U	mg/kg dry	1	0.00036	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.00023	U	mg/kg dry	1	0.00023	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.00038	U	mg/kg dry	1	0.00038	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.00030	U	mg/kg dry	1	0.00030	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.00088	U	mg/kg dry	1	0.00088	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
1,2-Dibromoethane [106-93-4] ^	0.00051	U	mg/kg dry	1	0.00051	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.00030	U	mg/kg dry	1	0.00030	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
1,2-Dichloroethane [107-06-2] ^	0.00042	U	mg/kg dry	1	0.00042	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
1,2-Dichloropropane [78-87-5] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
1,3-Dichloropropane [142-28-9] ^	0.00032	U	mg/kg dry	1	0.00032	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
2,2-Dichloropropane [594-20-7] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
2-Butanone [78-93-3] ^	0.00087	U	mg/kg dry	1	0.00087	0.0056	0I23003	EPA 8260B	09/23/10 17:52	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.00055	U	mg/kg dry	1	0.00055	0.0056	0I23003	EPA 8260B	09/23/10 17:52	JKG	
2-Chlorotoluene [95-49-8] ^	0.00020	U	mg/kg dry	1	0.00020	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
2-Hexanone [591-78-6] ^	0.00084	U	mg/kg dry	1	0.00084	0.0056	0I23003	EPA 8260B	09/23/10 17:52	JKG	
4-Chlorotoluene [106-43-4] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
4-Isopropyltoluene [99-87-6] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.00063	U	mg/kg dry	1	0.00063	0.0056	0I23003	EPA 8260B	09/23/10 17:52	JKG	
Acetone [67-64-1] ^	**0.0055**	J	mg/kg dry	1	0.0013	0.0056	0I23003	EPA 8260B	09/23/10 17:52	JKG	
Benzene [71-43-2] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
Bromobenzene [108-86-1] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
Bromochloromethane [74-97-5] ^	0.00046	U	mg/kg dry	1	0.00046	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
Bromodichloromethane [75-27-4] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
Bromoform [75-25-2] ^	0.00050	U	mg/kg dry	1	0.00050	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
Bromomethane [74-83-9] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
Carbon disulfide [75-15-0] ^	0.00043	U	mg/kg dry	1	0.00043	0.0056	0I23003	EPA 8260B	09/23/10 17:52	JKG	
Carbon Tetrachloride [56-23-5] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
Chlorobenzene [108-90-7] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
Chloroethane [75-00-3] ^	0.00028	U	mg/kg dry	1	0.00028	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
Chloroform [67-66-3] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
Chloromethane [74-87-3] ^	0.00017	U	mg/kg dry	1	0.00017	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.00014	U	mg/kg dry	1	0.00014	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
Dibromochloromethane [124-48-1] ^	0.00039	U	mg/kg dry	1	0.00039	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
Dibromomethane [74-95-3] ^	0.00035	U	mg/kg dry	1	0.00035	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.00050	U	mg/kg dry	1	0.00050	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
Ethylbenzene [100-41-4] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
Hexachlorobutadiene [87-68-3] ^	0.00039	U	mg/kg dry	1	0.00039	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
Isopropylbenzene [98-82-8] ^	0.00017	U	mg/kg dry	1	0.00017	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.00041	U	mg/kg dry	1	0.00041	0.0022	0I23003	EPA 8260B	09/23/10 17:52	JKG	
Methylene Chloride [75-09-2] ^	0.00062	U	mg/kg dry	1	0.00062	0.0011	0I23003	EPA 8260B	09/23/10 17:52	JKG	

Description: SMW-3 (13-15')
Matrix: Soil
Project: Atkinson Street Contamination

Lab Sample ID: C011145-04
Sampled: 09/13/10 13:30
Sampled By: Gerald Paul

Received: 09/17/10 18:30
Work Order: C011145
% Solids: 89.8

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.00033	U	mg/kg dry	1	0.00033	0.0011	0123003	EPA 8260B	09/23/10 17:52	JKG	
Naphthalene [91-20-3] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	0123003	EPA 8260B	09/23/10 17:52	JKG	
n-Butyl Benzene [104-51-8] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0123003	EPA 8260B	09/23/10 17:52	JKG	
n-Propyl Benzene [103-65-1] ^	0.00020	U	mg/kg dry	1	0.00020	0.0011	0123003	EPA 8260B	09/23/10 17:52	JKG	
o-Xylene [95-47-6] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0123003	EPA 8260B	09/23/10 17:52	JKG	
sec-Butylbenzene [135-98-8] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0123003	EPA 8260B	09/23/10 17:52	JKG	
Styrene [100-42-5] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	0123003	EPA 8260B	09/23/10 17:52	JKG	
tert-Butylbenzene [98-06-6] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0123003	EPA 8260B	09/23/10 17:52	JKG	
Tetrachloroethene [127-18-4] ^	**0.00072**	J	mg/kg dry	1	0.00031	0.0011	0123003	EPA 8260B	09/23/10 17:52	JKG	
Toluene [108-88-3] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	0123003	EPA 8260B	09/23/10 17:52	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.00041	U	mg/kg dry	1	0.00041	0.0011	0123003	EPA 8260B	09/23/10 17:52	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.00043	U	mg/kg dry	1	0.00043	0.0011	0123003	EPA 8260B	09/23/10 17:52	JKG	
Trichloroethene [79-01-6] ^	0.00030	U	mg/kg dry	1	0.00030	0.0011	0123003	EPA 8260B	09/23/10 17:52	JKG	
Trichlorofluoromethane [75-69-4] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	0123003	EPA 8260B	09/23/10 17:52	JKG	
Vinyl chloride [75-01-4] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	0123003	EPA 8260B	09/23/10 17:52	JKG	
Xylenes (Total) [1330-20-7] ^	0.00062	U	mg/kg dry	1	0.00062	0.0011	0123003	EPA 8260B	09/23/10 17:52	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*89 %*	*61-118*	*0123003*	*EPA 8260B*	*09/23/10 17:52*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*85 %*	*66-114*	*0123003*	*EPA 8260B*	*09/23/10 17:52*	*JKG*	
Toluene-d8	*45*	*1*	*50.0*	*91 %*	*63-118*	*0123003*	*EPA 8260B*	*09/23/10 17:52*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: Trip Blank | **Lab Sample ID:** C011145-05 | **Received:** 09/17/10 18:30

Matrix: Water | **Sampled:** 09/14/10 16:00 | **Work Order:** C011145

Project: Atkinson Street Contamination | **Sampled By:** Ed Woloszyn

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.20	U	ug/L	1	0.20	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.25	U	ug/L	1	0.25	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.94	U	ug/L	1	0.94	5.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
2-Chlorotoluene [95-49-8] ^	0.20	U	ug/L	1	0.20	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
4-Chlorotoluene [106-43-4] ^	0.25	U	ug/L	1	0.25	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
4-Isopropyltoluene [99-87-6] ^	0.26	U	ug/L	1	0.26	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
Bromobenzene [108-86-1] ^	0.28	U	ug/L	1	0.28	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
Isopropylbenzene [98-82-8] ^	0.24	U	ug/L	1	0.24	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.48	U	ug/L	1	0.48	2.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	

Description: Trip Blank
Matrix: Water
Project: Atkinson Street Contamination

Lab Sample ID: C011145-05
Sampled: 09/14/10 16:00
Sampled By: Ed Woloszyn

Received: 09/17/10 18:30
Work Order: C011145

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.38	U	ug/L	1	0.38	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
n-Butyl Benzene [104-51-8] ^	0.20	U	ug/L	1	0.20	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
n-Propyl Benzene [103-65-1] ^	0.30	U	ug/L	1	0.30	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
o-Xylene [95-47-6] ^	0.27	U	ug/L	1	0.27	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
sec-Butylbenzene [135-98-8] ^	0.24	U	ug/L	1	0.24	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
tert-Butylbenzene [98-06-6] ^	0.28	U	ug/L	1	0.28	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	0I23023	EPA 8260B	09/23/10 19:12	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*87 %*	*51-122*	*0I23023*	*EPA 8260B*	*09/23/10 19:12*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*68-117*	*0I23023*	*EPA 8260B*	*09/23/10 19:12*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*97 %*	*69-110*	*0I23023*	*EPA 8260B*	*09/23/10 19:12*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: Duplicate Soil
Matrix: Soil
Project: Atkinson Street Contamination

Lab Sample ID: C011145-06
Sampled: 09/17/10 00:00
Sampled By: Gerald Paul

Received: 09/17/10 18:30
Work Order: C011145
% Solids: 86.9

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.00015	U	mg/kg dry	1	0.00015	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.00016	U	mg/kg dry	1	0.00016	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.00018	U	mg/kg dry	1	0.00018	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.00021	U	mg/kg dry	1	0.00021	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
1,1-Dichloroethane [75-34-3] ^	0.00023	U	mg/kg dry	1	0.00023	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
1,1-Dichloroethene [75-35-4] ^	0.00027	U	mg/kg dry	1	0.00027	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
1,1-Dichloropropene [563-58-6] ^	0.00029	U	mg/kg dry	1	0.00029	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.00019	U	mg/kg dry	1	0.00019	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.00031	U	mg/kg dry	1	0.00031	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.00025	U	mg/kg dry	1	0.00025	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.00016	U	mg/kg dry	1	0.00016	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.00072	U	mg/kg dry	1	0.00072	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
1,2-Dibromoethane [106-93-4] ^	0.00042	U	mg/kg dry	1	0.00042	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.00025	U	mg/kg dry	1	0.00025	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
1,2-Dichloroethane [107-06-2] ^	0.00035	U	mg/kg dry	1	0.00035	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
1,2-Dichloropropane [78-87-5] ^	0.00024	U	mg/kg dry	1	0.00024	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.00018	U	mg/kg dry	1	0.00018	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.00020	U	mg/kg dry	1	0.00020	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
1,3-Dichloropropane [142-28-9] ^	0.00026	U	mg/kg dry	1	0.00026	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.00018	U	mg/kg dry	1	0.00018	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
2,2-Dichloropropane [594-20-7] ^	0.00021	U	mg/kg dry	1	0.00021	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
2-Butanone [78-93-3] ^	0.00071	U	mg/kg dry	1	0.00071	0.0046	0I23003	EPA 8260B	09/23/10 18:21	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.00045	U	mg/kg dry	1	0.00045	0.0046	0I23003	EPA 8260B	09/23/10 18:21	JKG	
2-Chlorotoluene [95-49-8] ^	0.00016	U	mg/kg dry	1	0.00016	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
2-Hexanone [591-78-6] ^	0.00068	U	mg/kg dry	1	0.00068	0.0046	0I23003	EPA 8260B	09/23/10 18:21	JKG	
4-Chlorotoluene [106-43-4] ^	0.00024	U	mg/kg dry	1	0.00024	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
4-Isopropyltoluene [99-87-6] ^	0.00015	U	mg/kg dry	1	0.00015	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.00052	U	mg/kg dry	1	0.00052	0.0046	0I23003	EPA 8260B	09/23/10 18:21	JKG	
Acetone [67-64-1] ^	**0.0071**		mg/kg dry	1	0.0011	0.0046	0I23003	EPA 8260B	09/23/10 18:21	JKG	
Benzene [71-43-2] ^	0.00016	U	mg/kg dry	1	0.00016	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
Bromobenzene [108-86-1] ^	0.00020	U	mg/kg dry	1	0.00020	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
Bromochloromethane [74-97-5] ^	0.00037	U	mg/kg dry	1	0.00037	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
Bromodichloromethane [75-27-4] ^	0.00022	U	mg/kg dry	1	0.00022	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
Bromoform [75-25-2] ^	0.00041	U	mg/kg dry	1	0.00041	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
Bromomethane [74-83-9] ^	0.00021	U	mg/kg dry	1	0.00021	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
Carbon disulfide [75-15-0] ^	0.00036	U	mg/kg dry	1	0.00036	0.0046	0I23003	EPA 8260B	09/23/10 18:21	JKG	
Carbon Tetrachloride [56-23-5] ^	0.00020	U	mg/kg dry	1	0.00020	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
Chlorobenzene [108-90-7] ^	0.00016	U	mg/kg dry	1	0.00016	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
Chloroethane [75-00-3] ^	0.00023	U	mg/kg dry	1	0.00023	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
Chloroform [67-66-3] ^	0.00016	U	mg/kg dry	1	0.00016	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
Chloromethane [74-87-3] ^	0.00014	U	mg/kg dry	1	0.00014	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.00021	U	mg/kg dry	1	0.00021	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.00012	U	mg/kg dry	1	0.00012	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
Dibromochloromethane [124-48-1] ^	0.00032	U	mg/kg dry	1	0.00032	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
Dibromomethane [74-95-3] ^	0.00028	U	mg/kg dry	1	0.00028	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.00041	U	mg/kg dry	1	0.00041	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
Ethylbenzene [100-41-4] ^	0.00018	U	mg/kg dry	1	0.00018	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
Hexachlorobutadiene [87-68-3] ^	0.00032	U	mg/kg dry	1	0.00032	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
Isopropylbenzene [98-82-8] ^	0.00014	U	mg/kg dry	1	0.00014	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.00034	U	mg/kg dry	1	0.00034	0.0018	0I23003	EPA 8260B	09/23/10 18:21	JKG	
Methylene Chloride [75-09-2] ^	0.00051	U	mg/kg dry	1	0.00051	0.00091	0I23003	EPA 8260B	09/23/10 18:21	JKG	

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Description: Duplicate Soil | **Lab Sample ID:** C011145-06 | **Received:** 09/17/10 18:30
Matrix: Soil | **Sampled:** 09/17/10 00:00 | **Work Order:** C011145
Project: Atkinson Street Contamination | **Sampled By:** Gerald Paul | **% Solids:** 86.9

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.00027	U	mg/kg dry	1	0.00027	0.00091	0123003	EPA 8260B	09/23/10 18:21	JKG	
Naphthalene [91-20-3] ^	0.00022	U	mg/kg dry	1	0.00022	0.00091	0123003	EPA 8260B	09/23/10 18:21	JKG	
n-Butyl Benzene [104-51-8] ^	0.00020	U	mg/kg dry	1	0.00020	0.00091	0123003	EPA 8260B	09/23/10 18:21	JKG	
n-Propyl Benzene [103-65-1] ^	0.00016	U	mg/kg dry	1	0.00016	0.00091	0123003	EPA 8260B	09/23/10 18:21	JKG	
o-Xylene [95-47-6] ^	0.00020	U	mg/kg dry	1	0.00020	0.00091	0123003	EPA 8260B	09/23/10 18:21	JKG	
sec-Butylbenzene [135-98-8] ^	0.00020	U	mg/kg dry	1	0.00020	0.00091	0123003	EPA 8260B	09/23/10 18:21	JKG	
Styrene [100-42-5] ^	0.00016	U	mg/kg dry	1	0.00016	0.00091	0123003	EPA 8260B	09/23/10 18:21	JKG	
tert-Butylbenzene [98-06-6] ^	0.00015	U	mg/kg dry	1	0.00015	0.00091	0123003	EPA 8260B	09/23/10 18:21	JKG	
Tetrachloroethene [127-18-4] ^	0.00026	U	mg/kg dry	1	0.00026	0.00091	0123003	EPA 8260B	09/23/10 18:21	JKG	
Toluene [108-88-3] ^	**0.00040**	J	mg/kg dry	1	0.00018	0.00091	0123003	EPA 8260B	09/23/10 18:21	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.00034	U	mg/kg dry	1	0.00034	0.00091	0123003	EPA 8260B	09/23/10 18:21	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.00036	U	mg/kg dry	1	0.00036	0.00091	0123003	EPA 8260B	09/23/10 18:21	JKG	
Trichloroethene [79-01-6] ^	0.00025	U	mg/kg dry	1	0.00025	0.00091	0123003	EPA 8260B	09/23/10 18:21	JKG	
Trichlorofluoromethane [75-69-4] ^	0.00024	U	mg/kg dry	1	0.00024	0.00091	0123003	EPA 8260B	09/23/10 18:21	JKG	
Vinyl chloride [75-01-4] ^	0.00022	U	mg/kg dry	1	0.00022	0.00091	0123003	EPA 8260B	09/23/10 18:21	JKG	
Xylenes (Total) [1330-20-7] ^	0.00051	U	mg/kg dry	1	0.00051	0.00091	0123003	EPA 8260B	09/23/10 18:21	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*88 %*	*61-118*	*0123003*	*EPA 8260B*	*09/23/10 18:21*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*83 %*	*66-114*	*0123003*	*EPA 8260B*	*09/23/10 18:21*	*JKG*	
Toluene-d8	*45*	*1*	*50.0*	*90 %*	*63-118*	*0123003*	*EPA 8260B*	*09/23/10 18:21*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I23003 - EPA 5035_MS

Blank (0I23003-BLK1) Prepared: 09/23/2010 07:51 Analyzed: 09/23/2010 11:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.00016	U	0.0010	mg/kg wet							
1,1,1-Trichloroethane	0.00018	U	0.0010	mg/kg wet							
1,1,2,2-Tetrachloroethane	0.00020	U	0.0010	mg/kg wet							
1,1,2-Trichloroethane	0.00023	U	0.0010	mg/kg wet							
1,1-Dichloroethane	0.00025	U	0.0010	mg/kg wet							
1,1-Dichloroethene	0.00030	U	0.0010	mg/kg wet							
1,1-Dichloropropene	0.00032	U	0.0010	mg/kg wet							
1,2,3-Trichlorobenzene	0.00021	U	0.0010	mg/kg wet							
1,2,3-Trichloropropane	0.00034	U	0.0010	mg/kg wet							
1,2,4-Trichlorobenzene	0.00027	U	0.0010	mg/kg wet							
1,2,4-Trimethylbenzene	0.00017	U	0.0010	mg/kg wet							
1,2-Dibromo-3-chloropropane	0.00079	U	0.0010	mg/kg wet							
1,2-Dibromoethane	0.00046	U	0.0010	mg/kg wet							
1,2-Dichlorobenzene	0.00027	U	0.0010	mg/kg wet							
1,2-Dichloroethane	0.00038	U	0.0010	mg/kg wet							
1,2-Dichloropropane	0.00026	U	0.0010	mg/kg wet							
1,3,5-Trimethylbenzene	0.00020	U	0.0010	mg/kg wet							
1,3-Dichlorobenzene	0.00022	U	0.0010	mg/kg wet							
1,3-Dichloropropane	0.00029	U	0.0010	mg/kg wet							
1,4-Dichlorobenzene	0.00020	U	0.0010	mg/kg wet							
2,2-Dichloropropane	0.00023	U	0.0010	mg/kg wet							
2-Butanone	0.00078	U	0.0050	mg/kg wet							
2-Chloroethyl Vinyl Ether	0.00049	U	0.0050	mg/kg wet							
2-Chlorotoluene	0.00018	U	0.0010	mg/kg wet							
2-Hexanone	0.00075	U	0.0050	mg/kg wet							
4-Chlorotoluene	0.00026	U	0.0010	mg/kg wet							
4-Isopropyltoluene	0.00016	U	0.0010	mg/kg wet							
4-Methyl-2-pentanone	0.00057	U	0.0050	mg/kg wet							
Acetone	0.0012	U	0.0050	mg/kg wet							
Benzene	0.00017	U	0.0010	mg/kg wet							
Bromobenzene	0.00022	U	0.0010	mg/kg wet							
Bromochloromethane	0.00041	U	0.0010	mg/kg wet							
Bromodichloromethane	0.00024	U	0.0010	mg/kg wet							
Bromoform	0.00045	U	0.0010	mg/kg wet							
Bromomethane	0.00023	U	0.0010	mg/kg wet							
Carbon disulfide	0.00039	U	0.0050	mg/kg wet							
Carbon Tetrachloride	0.00022	U	0.0010	mg/kg wet							
Chlorobenzene	0.00017	U	0.0010	mg/kg wet							
Chloroethane	0.00025	U	0.0010	mg/kg wet							
Chloroform	0.00017	U	0.0010	mg/kg wet							
Chloromethane	0.00015	U	0.0010	mg/kg wet							
cis-1,2-Dichloroethene	0.00023	U	0.0010	mg/kg wet							
cis-1,3-Dichloropropene	0.00013	U	0.0010	mg/kg wet							
Dibromochloromethane	0.00035	U	0.0010	mg/kg wet							
Dibromomethane	0.00031	U	0.0010	mg/kg wet							
Dichlorodifluoromethane	0.00045	U	0.0010	mg/kg wet							
Ethylbenzene	0.00020	U	0.0010	mg/kg wet							
Hexachlorobutadiene	0.00035	U	0.0010	mg/kg wet							
Isopropylbenzene	0.00015	U	0.0010	mg/kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I23003 - EPA 5035_MS

Blank (0I23003-BLK1) Continued Prepared: 09/23/2010 07:51 Analyzed: 09/23/2010 11:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
m,p-Xylenes	0.00037	U	0.0020	mg/kg wet							
Methylene Chloride	0.00056	U	0.0010	mg/kg wet							
Methyl-tert-Butyl Ether	0.00030	U	0.0010	mg/kg wet							
Naphthalene	0.00024	U	0.0010	mg/kg wet							
n-Butyl Benzene	0.00022	U	0.0010	mg/kg wet							
n-Propyl Benzene	0.00018	U	0.0010	mg/kg wet							
o-Xylene	0.00022	U	0.0010	mg/kg wet							
sec-Butylbenzene	0.00022	U	0.0010	mg/kg wet							
Styrene	0.00017	U	0.0010	mg/kg wet							
tert-Butylbenzene	0.00016	U	0.0010	mg/kg wet							
Tetrachloroethene	0.00028	U	0.0010	mg/kg wet							
Toluene	0.00020	U	0.0010	mg/kg wet							
trans-1,2-Dichloroethene	0.00037	U	0.0010	mg/kg wet							
trans-1,3-Dichloropropene	0.00039	U	0.0010	mg/kg wet							
Trichloroethene	0.00027	U	0.0010	mg/kg wet							
Trichlorofluoromethane	0.00026	U	0.0010	mg/kg wet							
Vinyl chloride	0.00024	U	0.0010	mg/kg wet							
Xylenes (Total)	0.00056	U	0.0010	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*93*	*61-118*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*88*	*66-114*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.0*		*92*	*63-118*			

LCS (0I23003-BS1) Prepared: 09/23/2010 07:51 Analyzed: 09/23/2010 12:06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		100	64-133			
Benzene	18		1.0	ug/L	20.0		92	79-129			
Chlorobenzene	18		1.0	ug/L	20.0		92	79-121			
Toluene	19		1.0	ug/L	20.0		94	77-120			
Trichloroethene	19		1.0	ug/L	20.0		94	78-118			
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*93*	*61-118*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*93*	*66-114*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.0*		*92*	*63-118*			

Matrix Spike (0I23003-MS1) Prepared: 09/23/2010 07:51 Analyzed: 09/23/2010 12:35

Source: C011560-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.30 U	92	64-133			
Benzene	17		1.0	ug/L	20.0	0.17 U	85	79-129			
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	89	79-121			
Toluene	17		1.0	ug/L	20.0	0.40	84	77-120			
Trichloroethene	18		1.0	ug/L	20.0	0.27 U	88	78-118			
Surrogate: 4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*92*	*61-118*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*90*	*66-114*			
Surrogate: Toluene-d8	*45*			*ug/L*	*50.0*		*90*	*63-118*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I23003 - EPA 5035_MS

Matrix Spike Dup (0I23003-MSD1) Prepared: 09/23/2010 07:51 Analyzed: 09/23/2010 13:04

Source: C011560-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.30 U	95	64-133	3	23	
Benzene	18		1.0	ug/L	20.0	0.17 U	90	79-129	6	23	
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	91	79-121	2	25	
Toluene	18		1.0	ug/L	20.0	0.40	87	77-120	4	23	
Trichloroethene	18		1.0	ug/L	20.0	0.27 U	91	78-118	3	24	
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*61-118*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*90*	*66-114*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.0*		*92*	*63-118*			

Batch 0I23023 - EPA 5030B_MS

Blank (0I23023-BLK1) Prepared: 09/23/2010 12:28 Analyzed: 09/23/2010 16:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,1-Dichloropropene	0.32	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.25	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.36	U	1.0	ug/L							
1,2,4-Trimethylbenzene	0.20	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,3,5-Trimethylbenzene	0.25	U	1.0	ug/L							
1,3-Dichlorobenzene	0.30	U	1.0	ug/L							
1,3-Dichloropropane	0.32	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2,2-Dichloropropane	0.55	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Chloroethyl Vinyl Ether	0.94	U	5.0	ug/L							
2-Chlorotoluene	0.20	U	1.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Chlorotoluene	0.25	U	1.0	ug/L							
4-Isopropyltoluene	0.26	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromobenzene	0.28	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I23023 - EPA 5030B_MS

Blank (0I23023-BLK1) Continued Prepared: 09/23/2010 12:28 Analyzed: 09/23/2010 16:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Dichlorodifluoromethane	0.38	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Hexachlorobutadiene	0.35	U	1.0	ug/L							
Isopropylbenzene	0.24	U	1.0	ug/L							
m,p-Xylenes	0.48	U	2.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.38	U	1.0	ug/L							
Naphthalene	0.39	U	1.0	ug/L							
n-Butyl Benzene	0.20	U	1.0	ug/L							
n-Propyl Benzene	0.30	U	1.0	ug/L							
o-Xylene	0.27	U	1.0	ug/L							
sec-Butylbenzene	0.24	U	1.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
tert-Butylbenzene	0.28	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*43*			*ug/L*	*50.0*		*87*	*51-122*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*91*	*68-117*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*95*	*69-110*			

LCS (0I23023-BS1) Prepared: 09/23/2010 12:28 Analyzed: 09/23/2010 17:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0		104	75-133			
Benzene	23		1.0	ug/L	20.0		116	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		99	83-117			
Toluene	20		1.0	ug/L	20.0		100	71-118			
Trichloroethene	20		1.0	ug/L	20.0		102	75-115			
Surrogate: 4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*88*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*68-117*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I23023 - EPA 5030B_MS

LCS (0I23023-BS1) Continued Prepared: 09/23/2010 12:28 Analyzed: 09/23/2010 17:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*95*	*69-110*			

Matrix Spike (0I23023-MS1) Prepared: 09/23/2010 12:28 Analyzed: 09/23/2010 17:40

Source: C011560-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.24 U	103	75-133			
Benzene	23		1.0	ug/L	20.0	0.20 U	116	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	99	83-117			
Toluene	19		1.0	ug/L	20.0	0.27 U	97	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.38 U	103	75-115			
Surrogate: 4-Bromofluorobenzene	*42*			*ug/L*	*50.0*		*85*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*91*	*68-117*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*96*	*69-110*			

Matrix Spike Dup (0I23023-MSD1) Prepared: 09/23/2010 12:28 Analyzed: 09/23/2010 18:11

Source: C011560-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.24 U	105	75-133	2	20	
Benzene	23		1.0	ug/L	20.0	0.20 U	117	81-134	1	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	98	83-117	0.9	16	
Toluene	20		1.0	ug/L	20.0	0.27 U	99	71-118	1	17	
Trichloroethene	21		1.0	ug/L	20.0	0.38 U	104	75-115	0.3	18	
Surrogate: 4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*87*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*68-117*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*97*	*69-110*			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.

ENVIRONMENTAL CONSERVATION LABORATORIES
10775 Central Port Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 850-6945
4810 Executive Park Court, Suite 211 Jacksonville, FL 32216-6069 (904) 296-3007 Fax (904) 296-6210
102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3090 Fax (919) 467-3515
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CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Client Name: S&ME, Inc. (SM001)	Project Number: 1054-10-2002
Address: 3201 Spring Forest Road	Project Name/Desc: Atkinson Street Contamination
City/State/Zip: Raleigh, NC 27616	PO # / Billing Info:
Tel: (919) 872-2660 Fax: (919) 876-3958	Reporting Contact: Ed Woloszyn
Sampler(s) Name, Affiliation (Print): Gerald Paul (SME)	Billing Contact: Accounts Payable
Sampler(s) Signature:	Site Location / Time Zone: Hamlet, NC

Requested Analyses: %Solids; 8260B

Requested Turnaround Times

Note: Rush requests subject to acceptance by the lab

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: ~~C0110261~~ C0111145

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	%Solids	8260B	Sample Comments
	~~B-169-1~~				~~SO~~	~~4~~	~~X~~	~~X~~	
	~~B-169-2~~				~~SO~~	~~4~~	~~X~~	~~X~~	
	~~B-169-3~~				~~SO~~	~~4~~	~~X~~	~~X~~	
	~~B-169-4~~				~~SO~~	~~4~~	~~X~~	~~X~~	
	DMW-1 (13-15')	9/14/10	1600	Grab	SO	4	X	X	
	DMW-2 (8.5-10')	9/16/10	0945	↓	SO	4	X	X	
	DMW-3 (8.5-10')	9/17/10	0900		SO	4	X	X	
	SMW-3 (13-15')	9/13/10	1330		SO	4	X	X	
	Trip Blank				WA	2		X	
	Duplicate Soil	9/17/10	—	Grab	SO	4	X	X	
						22	<-- Total # of Containers		

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time 9/17/10 1830	Received By	Date/Time 9/17/10 1830
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler # & Temps on Receipt: 3.4°C		Condition Upon Receipt: ✓ Acceptable ___ Unacceptable	

Matrix: GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

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Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Friday, September 24, 2010

S&ME, Inc. (SM001)

Attn: Ed Woloszyn

3201 Spring Forest Road

Raleigh, NC 27616

RE: Laboratory Results for
Project Number: 1054-10-2002, Project Name/Desc: Atkinson Street Contamination
ENCO Workorder: C010261

Dear Ed Woloszyn,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, September 10, 2010.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 20.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: B-109-1 (13-15)	Lab ID: C010261-01	Sampled: 09/10/10 09:45	Received: 09/10/10 17:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 8260B	09/24/10	09/22/10 09:42	9/22/2010 16:52

Client ID: B-109-2 (5-9)	Lab ID: C010261-02	Sampled: 09/10/10 10:45	Received: 09/10/10 17:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 8260B	09/24/10	09/22/10 09:42	9/22/2010 17:21

Client ID: B-109-3 (9-13)	Lab ID: C010261-03	Sampled: 09/10/10 11:30	Received: 09/10/10 17:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 8260B	09/24/10	09/22/10 09:42	9/22/2010 17:50

Client ID: B-109-4 (9-13)	Lab ID: C010261-04	Sampled: 09/10/10 12:15	Received: 09/10/10 17:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 8260B	09/24/10	09/22/10 09:42	9/22/2010 18:19

Client ID: Equip Blank	Lab ID: C010261-05	Sampled: 09/10/10 13:25	Received: 09/10/10 17:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 8260B	09/24/10	09/14/10 09:59	9/14/2010 19:57

SAMPLE DETECTION SUMMARY

Client ID:	B-109-1 (13-15)		Lab ID:	C010261-01			
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
Acetone	0.0065		0.0012	0.0048	mg/kg dry	EPA 8260B	

Client ID:	B-109-2 (5-9)		Lab ID:	C010261-02			
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
Tetrachloroethene	0.00061	J	0.00026	0.00095	mg/kg dry	EPA 8260B	

ANALYTICAL RESULTS

Description: B-109-1 (13-15) | **Lab Sample ID:** C010261-01 | **Received:** 09/10/10 17:30
Matrix: Soil | **Sampled:** 09/10/10 09:45 | **Work Order:** C010261
Project: Atkinson Street Contamination | **Sampled By:** Gerald Paul | **% Solids:** 88.7

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.00015	U	mg/kg dry	1	0.00015	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.00019	U	mg/kg dry	1	0.00019	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.00022	U	mg/kg dry	1	0.00022	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
1,1-Dichloroethane [75-34-3] ^	0.00024	U	mg/kg dry	1	0.00024	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
1,1-Dichloroethene [75-35-4] ^	0.00029	U	mg/kg dry	1	0.00029	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
1,1-Dichloropropene [563-58-6] ^	0.00031	U	mg/kg dry	1	0.00031	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.00020	U	mg/kg dry	1	0.00020	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.00033	U	mg/kg dry	1	0.00033	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.00026	U	mg/kg dry	1	0.00026	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.00016	U	mg/kg dry	1	0.00016	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.00076	U	mg/kg dry	1	0.00076	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
1,2-Dibromoethane [106-93-4] ^	0.00044	U	mg/kg dry	1	0.00044	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.00026	U	mg/kg dry	1	0.00026	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
1,2-Dichloroethane [107-06-2] ^	0.00036	U	mg/kg dry	1	0.00036	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
1,2-Dichloropropane [78-87-5] ^	0.00025	U	mg/kg dry	1	0.00025	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.00019	U	mg/kg dry	1	0.00019	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.00021	U	mg/kg dry	1	0.00021	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
1,3-Dichloropropane [142-28-9] ^	0.00028	U	mg/kg dry	1	0.00028	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.00019	U	mg/kg dry	1	0.00019	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
2,2-Dichloropropane [594-20-7] ^	0.00022	U	mg/kg dry	1	0.00022	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
2-Butanone [78-93-3] ^	0.00075	U	mg/kg dry	1	0.00075	0.0048	0I22012	EPA 8260B	09/22/10 16:52	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.00047	U	mg/kg dry	1	0.00047	0.0048	0I22012	EPA 8260B	09/22/10 16:52	JKG	
2-Chlorotoluene [95-49-8] ^	0.00017	U	mg/kg dry	1	0.00017	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
2-Hexanone [591-78-6] ^	0.00072	U	mg/kg dry	1	0.00072	0.0048	0I22012	EPA 8260B	09/22/10 16:52	JKG	
4-Chlorotoluene [106-43-4] ^	0.00025	U	mg/kg dry	1	0.00025	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
4-Isopropyltoluene [99-87-6] ^	0.00015	U	mg/kg dry	1	0.00015	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.00055	U	mg/kg dry	1	0.00055	0.0048	0I22012	EPA 8260B	09/22/10 16:52	JKG	
Acetone [67-64-1] ^	**0.0065**		mg/kg dry	1	0.0012	0.0048	0I22012	EPA 8260B	09/22/10 16:52	JKG	
Benzene [71-43-2] ^	0.00016	U	mg/kg dry	1	0.00016	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
Bromobenzene [108-86-1] ^	0.00021	U	mg/kg dry	1	0.00021	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
Bromochloromethane [74-97-5] ^	0.00039	U	mg/kg dry	1	0.00039	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
Bromodichloromethane [75-27-4] ^	0.00023	U	mg/kg dry	1	0.00023	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
Bromoform [75-25-2] ^	0.00043	U	mg/kg dry	1	0.00043	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
Bromomethane [74-83-9] ^	0.00022	U	mg/kg dry	1	0.00022	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
Carbon disulfide [75-15-0] ^	0.00037	U	mg/kg dry	1	0.00037	0.0048	0I22012	EPA 8260B	09/22/10 16:52	JKG	
Carbon Tetrachloride [56-23-5] ^	0.00021	U	mg/kg dry	1	0.00021	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
Chlorobenzene [108-90-7] ^	0.00016	U	mg/kg dry	1	0.00016	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
Chloroethane [75-00-3] ^	0.00024	U	mg/kg dry	1	0.00024	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
Chloroform [67-66-3] ^	0.00016	U	mg/kg dry	1	0.00016	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
Chloromethane [74-87-3] ^	0.00014	U	mg/kg dry	1	0.00014	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.00022	U	mg/kg dry	1	0.00022	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.00012	U	mg/kg dry	1	0.00012	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
Dibromochloromethane [124-48-1] ^	0.00034	U	mg/kg dry	1	0.00034	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
Dibromomethane [74-95-3] ^	0.00030	U	mg/kg dry	1	0.00030	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.00043	U	mg/kg dry	1	0.00043	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
Ethylbenzene [100-41-4] ^	0.00019	U	mg/kg dry	1	0.00019	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
Hexachlorobutadiene [87-68-3] ^	0.00034	U	mg/kg dry	1	0.00034	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	

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Description: B-109-1 (13-15) | **Lab Sample ID:** C010261-01 | **Received:** 09/10/10 17:30
Matrix: Soil | **Sampled:** 09/10/10 09:45 | **Work Order:** C010261
Project: Atkinson Street Contamination | **Sampled By:** Gerald Paul | **% Solids:** 88.7

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Isopropylbenzene [98-82-8] ^	0.00014	U	mg/kg dry	1	0.00014	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.00036	U	mg/kg dry	1	0.00036	0.0019	0I22012	EPA 8260B	09/22/10 16:52	JKG	
Methylene Chloride [75-09-2] ^	0.00054	U	mg/kg dry	1	0.00054	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.00029	U	mg/kg dry	1	0.00029	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
Naphthalene [91-20-3] ^	0.00023	U	mg/kg dry	1	0.00023	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
n-Butyl Benzene [104-51-8] ^	0.00021	U	mg/kg dry	1	0.00021	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
n-Propyl Benzene [103-65-1] ^	0.00017	U	mg/kg dry	1	0.00017	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
o-Xylene [95-47-6] ^	0.00021	U	mg/kg dry	1	0.00021	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
sec-Butylbenzene [135-98-8] ^	0.00021	U	mg/kg dry	1	0.00021	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
Styrene [100-42-5] ^	0.00016	U	mg/kg dry	1	0.00016	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
tert-Butylbenzene [98-06-6] ^	0.00015	U	mg/kg dry	1	0.00015	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
Tetrachloroethene [127-18-4] ^	0.00027	U	mg/kg dry	1	0.00027	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
Toluene [108-88-3] ^	0.00019	U	mg/kg dry	1	0.00019	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.00036	U	mg/kg dry	1	0.00036	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.00037	U	mg/kg dry	1	0.00037	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
Trichloroethene [79-01-6] ^	0.00026	U	mg/kg dry	1	0.00026	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
Trichlorofluoromethane [75-69-4] ^	0.00025	U	mg/kg dry	1	0.00025	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
Vinyl chloride [75-01-4] ^	0.00023	U	mg/kg dry	1	0.00023	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	
Xylenes (Total) [1330-20-7] ^	0.00054	U	mg/kg dry	1	0.00054	0.00096	0I22012	EPA 8260B	09/22/10 16:52	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*91 %*	*61-118*	*0I22012*	*EPA 8260B*	*09/22/10 16:52*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*91 %*	*66-114*	*0I22012*	*EPA 8260B*	*09/22/10 16:52*	*JKG*	
Toluene-d8	*45*	*1*	*50.0*	*89 %*	*63-118*	*0I22012*	*EPA 8260B*	*09/22/10 16:52*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Description: B-109-2 (5-9) | **Lab Sample ID:** C010261-02 | **Received:** 09/10/10 17:30
Matrix: Soil | **Sampled:** 09/10/10 10:45 | **Work Order:** C010261
Project: Atkinson Street Contamination | **Sampled By:** Gerald Paul | **% Solids:** 92.3

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.00015	U	mg/kg dry	1	0.00015	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.00019	U	mg/kg dry	1	0.00019	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.00022	U	mg/kg dry	1	0.00022	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
1,1-Dichloroethane [75-34-3] ^	0.00024	U	mg/kg dry	1	0.00024	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
1,1-Dichloroethene [75-35-4] ^	0.00028	U	mg/kg dry	1	0.00028	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
1,1-Dichloropropene [563-58-6] ^	0.00030	U	mg/kg dry	1	0.00030	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.00020	U	mg/kg dry	1	0.00020	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.00032	U	mg/kg dry	1	0.00032	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.00026	U	mg/kg dry	1	0.00026	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.00016	U	mg/kg dry	1	0.00016	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.00075	U	mg/kg dry	1	0.00075	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
1,2-Dibromoethane [106-93-4] ^	0.00044	U	mg/kg dry	1	0.00044	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.00026	U	mg/kg dry	1	0.00026	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
1,2-Dichloroethane [107-06-2] ^	0.00036	U	mg/kg dry	1	0.00036	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
1,2-Dichloropropane [78-87-5] ^	0.00025	U	mg/kg dry	1	0.00025	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.00019	U	mg/kg dry	1	0.00019	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.00021	U	mg/kg dry	1	0.00021	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
1,3-Dichloropropane [142-28-9] ^	0.00027	U	mg/kg dry	1	0.00027	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.00019	U	mg/kg dry	1	0.00019	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
2,2-Dichloropropane [594-20-7] ^	0.00022	U	mg/kg dry	1	0.00022	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
2-Butanone [78-93-3] ^	0.00074	U	mg/kg dry	1	0.00074	0.0047	0I22012	EPA 8260B	09/22/10 17:21	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.00046	U	mg/kg dry	1	0.00046	0.0047	0I22012	EPA 8260B	09/22/10 17:21	JKG	
2-Chlorotoluene [95-49-8] ^	0.00017	U	mg/kg dry	1	0.00017	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
2-Hexanone [591-78-6] ^	0.00071	U	mg/kg dry	1	0.00071	0.0047	0I22012	EPA 8260B	09/22/10 17:21	JKG	
4-Chlorotoluene [106-43-4] ^	0.00025	U	mg/kg dry	1	0.00025	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
4-Isopropyltoluene [99-87-6] ^	0.00015	U	mg/kg dry	1	0.00015	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.00054	U	mg/kg dry	1	0.00054	0.0047	0I22012	EPA 8260B	09/22/10 17:21	JKG	
Acetone [67-64-1] ^	0.0011	U	mg/kg dry	1	0.0011	0.0047	0I22012	EPA 8260B	09/22/10 17:21	JKG	
Benzene [71-43-2] ^	0.00016	U	mg/kg dry	1	0.00016	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
Bromobenzene [108-86-1] ^	0.00021	U	mg/kg dry	1	0.00021	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
Bromochloromethane [74-97-5] ^	0.00039	U	mg/kg dry	1	0.00039	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
Bromodichloromethane [75-27-4] ^	0.00023	U	mg/kg dry	1	0.00023	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
Bromoform [75-25-2] ^	0.00043	U	mg/kg dry	1	0.00043	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
Bromomethane [74-83-9] ^	0.00022	U	mg/kg dry	1	0.00022	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
Carbon disulfide [75-15-0] ^	0.00037	U	mg/kg dry	1	0.00037	0.0047	0I22012	EPA 8260B	09/22/10 17:21	JKG	
Carbon Tetrachloride [56-23-5] ^	0.00021	U	mg/kg dry	1	0.00021	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
Chlorobenzene [108-90-7] ^	0.00016	U	mg/kg dry	1	0.00016	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
Chloroethane [75-00-3] ^	0.00024	U	mg/kg dry	1	0.00024	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
Chloroform [67-66-3] ^	0.00016	U	mg/kg dry	1	0.00016	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
Chloromethane [74-87-3] ^	0.00014	U	mg/kg dry	1	0.00014	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.00022	U	mg/kg dry	1	0.00022	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.00012	U	mg/kg dry	1	0.00012	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
Dibromochloromethane [124-48-1] ^	0.00033	U	mg/kg dry	1	0.00033	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
Dibromomethane [74-95-3] ^	0.00029	U	mg/kg dry	1	0.00029	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.00043	U	mg/kg dry	1	0.00043	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
Ethylbenzene [100-41-4] ^	0.00019	U	mg/kg dry	1	0.00019	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
Hexachlorobutadiene [87-68-3] ^	0.00033	U	mg/kg dry	1	0.00033	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
Isopropylbenzene [98-82-8] ^	0.00014	U	mg/kg dry	1	0.00014	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.00035	U	mg/kg dry	1	0.00035	0.0019	0I22012	EPA 8260B	09/22/10 17:21	JKG	
Methylene Chloride [75-09-2] ^	0.00053	U	mg/kg dry	1	0.00053	0.00095	0I22012	EPA 8260B	09/22/10 17:21	JKG	

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Description: B-109-2 (5-9) | **Lab Sample ID:** C010261-02 | **Received:** 09/10/10 17:30
Matrix: Soil | **Sampled:** 09/10/10 10:45 | **Work Order:** C010261
Project: Atkinson Street Contamination | **Sampled By:** Gerald Paul | **% Solids:** 92.3

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.00028	U	mg/kg dry	1	0.00028	0.00095	OI22012	EPA 8260B	09/22/10 17:21	JKG	
Naphthalene [91-20-3] ^	0.00023	U	mg/kg dry	1	0.00023	0.00095	OI22012	EPA 8260B	09/22/10 17:21	JKG	
n-Butyl Benzene [104-51-8] ^	0.00021	U	mg/kg dry	1	0.00021	0.00095	OI22012	EPA 8260B	09/22/10 17:21	JKG	
n-Propyl Benzene [103-65-1] ^	0.00017	U	mg/kg dry	1	0.00017	0.00095	OI22012	EPA 8260B	09/22/10 17:21	JKG	
o-Xylene [95-47-6] ^	0.00021	U	mg/kg dry	1	0.00021	0.00095	OI22012	EPA 8260B	09/22/10 17:21	JKG	
sec-Butylbenzene [135-98-8] ^	0.00021	U	mg/kg dry	1	0.00021	0.00095	OI22012	EPA 8260B	09/22/10 17:21	JKG	
Styrene [100-42-5] ^	0.00016	U	mg/kg dry	1	0.00016	0.00095	OI22012	EPA 8260B	09/22/10 17:21	JKG	
tert-Butylbenzene [98-06-6] ^	0.00015	U	mg/kg dry	1	0.00015	0.00095	OI22012	EPA 8260B	09/22/10 17:21	JKG	
Tetrachloroethene [127-18-4] ^	**0.00061**	J	mg/kg dry	1	0.00026	0.00095	OI22012	EPA 8260B	09/22/10 17:21	JKG	
Toluene [108-88-3] ^	0.00019	U	mg/kg dry	1	0.00019	0.00095	OI22012	EPA 8260B	09/22/10 17:21	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.00035	U	mg/kg dry	1	0.00035	0.00095	OI22012	EPA 8260B	09/22/10 17:21	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.00037	U	mg/kg dry	1	0.00037	0.00095	OI22012	EPA 8260B	09/22/10 17:21	JKG	
Trichloroethene [79-01-6] ^	0.00026	U	mg/kg dry	1	0.00026	0.00095	OI22012	EPA 8260B	09/22/10 17:21	JKG	
Trichlorofluoromethane [75-69-4] ^	0.00025	U	mg/kg dry	1	0.00025	0.00095	OI22012	EPA 8260B	09/22/10 17:21	JKG	
Vinyl chloride [75-01-4] ^	0.00023	U	mg/kg dry	1	0.00023	0.00095	OI22012	EPA 8260B	09/22/10 17:21	JKG	
Xylenes (Total) [1330-20-7] ^	0.00053	U	mg/kg dry	1	0.00053	0.00095	OI22012	EPA 8260B	09/22/10 17:21	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*61-118*	*OI22012*	*EPA 8260B*	*09/22/10 17:21*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*93 %*	*66-114*	*OI22012*	*EPA 8260B*	*09/22/10 17:21*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*63-118*	*OI22012*	*EPA 8260B*	*09/22/10 17:21*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: B-109-3 (9-13) | **Lab Sample ID:** C010261-03 | **Received:** 09/10/10 17:30
Matrix: Soil | **Sampled:** 09/10/10 11:30 | **Work Order:** C010261
Project: Atkinson Street Contamination | **Sampled By:** Gerald Paul | **% Solids:** 92.3

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.00020	U	mg/kg dry	1	0.00020	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
1,1-Dichloroethane [75-34-3] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
1,1-Dichloroethene [75-35-4] ^	0.00033	U	mg/kg dry	1	0.00033	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
1,1-Dichloropropene [563-58-6] ^	0.00035	U	mg/kg dry	1	0.00035	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.00023	U	mg/kg dry	1	0.00023	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.00037	U	mg/kg dry	1	0.00037	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.00086	U	mg/kg dry	1	0.00086	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
1,2-Dibromoethane [106-93-4] ^	0.00050	U	mg/kg dry	1	0.00050	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
1,2-Dichloroethane [107-06-2] ^	0.00041	U	mg/kg dry	1	0.00041	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
1,2-Dichloropropane [78-87-5] ^	0.00028	U	mg/kg dry	1	0.00028	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
1,3-Dichloropropane [142-28-9] ^	0.00031	U	mg/kg dry	1	0.00031	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
2,2-Dichloropropane [594-20-7] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
2-Butanone [78-93-3] ^	0.00085	U	mg/kg dry	1	0.00085	0.0054	0I22012	EPA 8260B	09/22/10 17:50	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.00053	U	mg/kg dry	1	0.00053	0.0054	0I22012	EPA 8260B	09/22/10 17:50	JKG	
2-Chlorotoluene [95-49-8] ^	0.00020	U	mg/kg dry	1	0.00020	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
2-Hexanone [591-78-6] ^	0.00081	U	mg/kg dry	1	0.00081	0.0054	0I22012	EPA 8260B	09/22/10 17:50	JKG	
4-Chlorotoluene [106-43-4] ^	0.00028	U	mg/kg dry	1	0.00028	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
4-Isopropyltoluene [99-87-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.00062	U	mg/kg dry	1	0.00062	0.0054	0I22012	EPA 8260B	09/22/10 17:50	JKG	
Acetone [67-64-1] ^	0.0013	U	mg/kg dry	1	0.0013	0.0054	0I22012	EPA 8260B	09/22/10 17:50	JKG	
Benzene [71-43-2] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
Bromobenzene [108-86-1] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
Bromochloromethane [74-97-5] ^	0.00044	U	mg/kg dry	1	0.00044	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
Bromodichloromethane [75-27-4] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
Bromoform [75-25-2] ^	0.00049	U	mg/kg dry	1	0.00049	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
Bromomethane [74-83-9] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
Carbon disulfide [75-15-0] ^	0.00042	U	mg/kg dry	1	0.00042	0.0054	0I22012	EPA 8260B	09/22/10 17:50	JKG	
Carbon Tetrachloride [56-23-5] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
Chlorobenzene [108-90-7] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
Chloroethane [75-00-3] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
Chloroform [67-66-3] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
Chloromethane [74-87-3] ^	0.00016	U	mg/kg dry	1	0.00016	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.00014	U	mg/kg dry	1	0.00014	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
Dibromochloromethane [124-48-1] ^	0.00038	U	mg/kg dry	1	0.00038	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
Dibromomethane [74-95-3] ^	0.00034	U	mg/kg dry	1	0.00034	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.00049	U	mg/kg dry	1	0.00049	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
Ethylbenzene [100-41-4] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
Hexachlorobutadiene [87-68-3] ^	0.00038	U	mg/kg dry	1	0.00038	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
Isopropylbenzene [98-82-8] ^	0.00016	U	mg/kg dry	1	0.00016	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.00040	U	mg/kg dry	1	0.00040	0.0022	0I22012	EPA 8260B	09/22/10 17:50	JKG	
Methylene Chloride [75-09-2] ^	0.00061	U	mg/kg dry	1	0.00061	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	

Description: B-109-3 (9-13) | **Lab Sample ID:** C010261-03 | **Received:** 09/10/10 17:30
Matrix: Soil | **Sampled:** 09/10/10 11:30 | **Work Order:** C010261
Project: Atkinson Street Contamination | **Sampled By:** Gerald Paul | **% Solids:** 92.3

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.00033	U	mg/kg dry	1	0.00033	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
Naphthalene [91-20-3] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
n-Butyl Benzene [104-51-8] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
n-Propyl Benzene [103-65-1] ^	0.00020	U	mg/kg dry	1	0.00020	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
o-Xylene [95-47-6] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
sec-Butylbenzene [135-98-8] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
Styrene [100-42-5] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
tert-Butylbenzene [98-06-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
Tetrachloroethene [127-18-4] ^	0.00030	U	mg/kg dry	1	0.00030	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
Toluene [108-88-3] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.00040	U	mg/kg dry	1	0.00040	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.00042	U	mg/kg dry	1	0.00042	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
Trichloroethene [79-01-6] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
Trichlorofluoromethane [75-69-4] ^	0.00028	U	mg/kg dry	1	0.00028	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
Vinyl chloride [75-01-4] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	
Xylenes (Total) [1330-20-7] ^	0.00061	U	mg/kg dry	1	0.00061	0.0011	0I22012	EPA 8260B	09/22/10 17:50	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*93 %*	*61-118*	*0I22012*	*EPA 8260B*	*09/22/10 17:50*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*91 %*	*66-114*	*0I22012*	*EPA 8260B*	*09/22/10 17:50*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*63-118*	*0I22012*	*EPA 8260B*	*09/22/10 17:50*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Description: B-109-4 (9-13) | **Lab Sample ID:** C010261-04 | **Received:** 09/10/10 17:30
Matrix: Soil | **Sampled:** 09/10/10 12:15 | **Work Order:** C010261
Project: Atkinson Street Contamination | **Sampled By:** Gerald Paul | **% Solids:** 85.0

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.00015	U	mg/kg dry	1	0.00015	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.00018	U	mg/kg dry	1	0.00018	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.00021	U	mg/kg dry	1	0.00021	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
1,1-Dichloroethane [75-34-3] ^	0.00023	U	mg/kg dry	1	0.00023	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
1,1-Dichloroethene [75-35-4] ^	0.00028	U	mg/kg dry	1	0.00028	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
1,1-Dichloropropene [563-58-6] ^	0.00029	U	mg/kg dry	1	0.00029	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.00019	U	mg/kg dry	1	0.00019	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.00031	U	mg/kg dry	1	0.00031	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.00025	U	mg/kg dry	1	0.00025	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.00016	U	mg/kg dry	1	0.00016	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.00072	U	mg/kg dry	1	0.00072	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
1,2-Dibromoethane [106-93-4] ^	0.00042	U	mg/kg dry	1	0.00042	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.00025	U	mg/kg dry	1	0.00025	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
1,2-Dichloroethane [107-06-2] ^	0.00035	U	mg/kg dry	1	0.00035	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
1,2-Dichloropropane [78-87-5] ^	0.00024	U	mg/kg dry	1	0.00024	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.00018	U	mg/kg dry	1	0.00018	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.00020	U	mg/kg dry	1	0.00020	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
1,3-Dichloropropane [142-28-9] ^	0.00027	U	mg/kg dry	1	0.00027	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.00018	U	mg/kg dry	1	0.00018	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
2,2-Dichloropropane [594-20-7] ^	0.00021	U	mg/kg dry	1	0.00021	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
2-Butanone [78-93-3] ^	0.00072	U	mg/kg dry	1	0.00072	0.0046	0I22012	EPA 8260B	09/22/10 18:19	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.00045	U	mg/kg dry	1	0.00045	0.0046	0I22012	EPA 8260B	09/22/10 18:19	JKG	
2-Chlorotoluene [95-49-8] ^	0.00017	U	mg/kg dry	1	0.00017	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
2-Hexanone [591-78-6] ^	0.00069	U	mg/kg dry	1	0.00069	0.0046	0I22012	EPA 8260B	09/22/10 18:19	JKG	
4-Chlorotoluene [106-43-4] ^	0.00024	U	mg/kg dry	1	0.00024	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
4-Isopropyltoluene [99-87-6] ^	0.00015	U	mg/kg dry	1	0.00015	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.00052	U	mg/kg dry	1	0.00052	0.0046	0I22012	EPA 8260B	09/22/10 18:19	JKG	
Acetone [67-64-1] ^	0.0011	U	mg/kg dry	1	0.0011	0.0046	0I22012	EPA 8260B	09/22/10 18:19	JKG	
Benzene [71-43-2] ^	0.00016	U	mg/kg dry	1	0.00016	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
Bromobenzene [108-86-1] ^	0.00020	U	mg/kg dry	1	0.00020	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
Bromochloromethane [74-97-5] ^	0.00038	U	mg/kg dry	1	0.00038	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
Bromodichloromethane [75-27-4] ^	0.00022	U	mg/kg dry	1	0.00022	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
Bromoform [75-25-2] ^	0.00041	U	mg/kg dry	1	0.00041	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
Bromomethane [74-83-9] ^	0.00021	U	mg/kg dry	1	0.00021	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
Carbon disulfide [75-15-0] ^	0.00036	U	mg/kg dry	1	0.00036	0.0046	0I22012	EPA 8260B	09/22/10 18:19	JKG	
Carbon Tetrachloride [56-23-5] ^	0.00020	U	mg/kg dry	1	0.00020	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
Chlorobenzene [108-90-7] ^	0.00016	U	mg/kg dry	1	0.00016	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
Chloroethane [75-00-3] ^	0.00023	U	mg/kg dry	1	0.00023	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
Chloroform [67-66-3] ^	0.00016	U	mg/kg dry	1	0.00016	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
Chloromethane [74-87-3] ^	0.00014	U	mg/kg dry	1	0.00014	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.00021	U	mg/kg dry	1	0.00021	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.00012	U	mg/kg dry	1	0.00012	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
Dibromochloromethane [124-48-1] ^	0.00032	U	mg/kg dry	1	0.00032	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
Dibromomethane [74-95-3] ^	0.00028	U	mg/kg dry	1	0.00028	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.00041	U	mg/kg dry	1	0.00041	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
Ethylbenzene [100-41-4] ^	0.00018	U	mg/kg dry	1	0.00018	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
Hexachlorobutadiene [87-68-3] ^	0.00032	U	mg/kg dry	1	0.00032	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
Isopropylbenzene [98-82-8] ^	0.00014	U	mg/kg dry	1	0.00014	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.00034	U	mg/kg dry	1	0.00034	0.0018	0I22012	EPA 8260B	09/22/10 18:19	JKG	
Methylene Chloride [75-09-2] ^	0.00051	U	mg/kg dry	1	0.00051	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	

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Description: B-109-4 (9-13)
Matrix: Soil
Project: Atkinson Street Contamination

Lab Sample ID: C010261-04
Sampled: 09/10/10 12:15
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010261
% Solids: 85.0

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.00028	U	mg/kg dry	1	0.00028	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
Naphthalene [91-20-3] ^	0.00022	U	mg/kg dry	1	0.00022	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
n-Butyl Benzene [104-51-8] ^	0.00020	U	mg/kg dry	1	0.00020	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
n-Propyl Benzene [103-65-1] ^	0.00017	U	mg/kg dry	1	0.00017	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
o-Xylene [95-47-6] ^	0.00020	U	mg/kg dry	1	0.00020	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
sec-Butylbenzene [135-98-8] ^	0.00020	U	mg/kg dry	1	0.00020	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
Styrene [100-42-5] ^	0.00016	U	mg/kg dry	1	0.00016	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
tert-Butylbenzene [98-06-6] ^	0.00015	U	mg/kg dry	1	0.00015	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
Tetrachloroethene [127-18-4] ^	0.00026	U	mg/kg dry	1	0.00026	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
Toluene [108-88-3] ^	0.00018	U	mg/kg dry	1	0.00018	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.00034	U	mg/kg dry	1	0.00034	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.00036	U	mg/kg dry	1	0.00036	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
Trichloroethene [79-01-6] ^	0.00025	U	mg/kg dry	1	0.00025	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
Trichlorofluoromethane [75-69-4] ^	0.00024	U	mg/kg dry	1	0.00024	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
Vinyl chloride [75-01-4] ^	0.00022	U	mg/kg dry	1	0.00022	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	
Xylenes (Total) [1330-20-7] ^	0.00051	U	mg/kg dry	1	0.00051	0.00092	0I22012	EPA 8260B	09/22/10 18:19	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*61-118*	*0I22012*	*EPA 8260B*	*09/22/10 18:19*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*66-114*	*0I22012*	*EPA 8260B*	*09/22/10 18:19*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*93 %*	*63-118*	*0I22012*	*EPA 8260B*	*09/22/10 18:19*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: Equip Blank
Matrix: Water
Project: Atkinson Street Contamination

Lab Sample ID: C010261-05
Sampled: 09/10/10 13:25
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010261

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.25	U	ug/L	1	0.25	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.94	U	ug/L	1	0.94	5.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
2-Chlorotoluene [95-49-8] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
4-Chlorotoluene [106-43-4] ^	0.25	U	ug/L	1	0.25	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
4-Isopropyltoluene [99-87-6] ^	0.26	U	ug/L	1	0.26	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
Bromobenzene [108-86-1] ^	0.28	U	ug/L	1	0.28	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
Isopropylbenzene [98-82-8] ^	0.24	U	ug/L	1	0.24	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.48	U	ug/L	1	0.48	2.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	

Description: Equip Blank
Matrix: Water
Project: Atkinson Street Contamination

Lab Sample ID: C010261-05
Sampled: 09/10/10 13:25
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010261

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
n-Butyl Benzene [104-51-8] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
n-Propyl Benzene [103-65-1] ^	0.30	U	ug/L	1	0.30	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
o-Xylene [95-47-6] ^	0.27	U	ug/L	1	0.27	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
sec-Butylbenzene [135-98-8] ^	0.24	U	ug/L	1	0.24	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
tert-Butylbenzene [98-06-6] ^	0.28	U	ug/L	1	0.28	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	0I14012	EPA 8260B	09/14/10 19:57	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*39*	*1*	*50.0*	*78 %*	*51-122*	*0I14012*	*EPA 8260B*	*09/14/10 19:57*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*85 %*	*68-117*	*0I14012*	*EPA 8260B*	*09/14/10 19:57*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*86 %*	*69-110*	*0I14012*	*EPA 8260B*	*09/14/10 19:57*	*JKG*	

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I14012 - EPA 5030B_MS

Blank (0I14012-BLK1) Prepared: 09/14/2010 09:59 Analyzed: 09/14/2010 13:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,1-Dichloropropene	0.32	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.25	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.36	U	1.0	ug/L							
1,2,4-Trimethylbenzene	0.20	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,3,5-Trimethylbenzene	0.25	U	1.0	ug/L							
1,3-Dichlorobenzene	0.30	U	1.0	ug/L							
1,3-Dichloropropane	0.32	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2,2-Dichloropropane	0.55	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Chloroethyl Vinyl Ether	0.94	U	5.0	ug/L							
2-Chlorotoluene	0.20	U	1.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Chlorotoluene	0.25	U	1.0	ug/L							
4-Isopropyltoluene	0.26	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromobenzene	0.28	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Dichlorodifluoromethane	0.38	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Hexachlorobutadiene	0.35	U	1.0	ug/L							
Isopropylbenzene	0.24	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I14012 - EPA 5030B_MS

Blank (0I14012-BLK1) Continued Prepared: 09/14/2010 09:59 Analyzed: 09/14/2010 13:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
m,p-Xylenes	0.48	U	2.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.38	U	1.0	ug/L							
Naphthalene	0.39	U	1.0	ug/L							
n-Butyl Benzene	0.20	U	1.0	ug/L							
n-Propyl Benzene	0.30	U	1.0	ug/L							
o-Xylene	0.27	U	1.0	ug/L							
sec-Butylbenzene	0.24	U	1.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
tert-Butylbenzene	0.28	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*41*			*ug/L*	*50.0*		*82*	*51-122*			
Surrogate: Dibromofluoromethane	*42*			*ug/L*	*50.0*		*85*	*68-117*			
Surrogate: Toluene-d8	*44*			*ug/L*	*50.0*		*88*	*69-110*			

LCS (0I14012-BS1) Prepared: 09/14/2010 09:59 Analyzed: 09/14/2010 13:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0		91	75-133			
Benzene	21		1.0	ug/L	20.0		107	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		94	83-117			
Toluene	18		1.0	ug/L	20.0		90	71-118			
Trichloroethene	19		1.0	ug/L	20.0		97	75-115			
Surrogate: 4-Bromofluorobenzene	*40*			*ug/L*	*50.0*		*79*	*51-122*			
Surrogate: Dibromofluoromethane	*42*			*ug/L*	*50.0*		*83*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*84*	*69-110*			

Matrix Spike (0I14012-MS1) Prepared: 09/14/2010 09:59 Analyzed: 09/14/2010 14:26

Source: C010549-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.24 U	97	75-133			
Benzene	24		1.0	ug/L	20.0	0.20 U	118	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.27 U	97	83-117			
Toluene	19		1.0	ug/L	20.0	0.27 U	95	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.38 U	103	75-115			
Surrogate: 4-Bromofluorobenzene	*38*			*ug/L*	*50.0*		*76*	*51-122*			
Surrogate: Dibromofluoromethane	*41*			*ug/L*	*50.0*		*82*	*68-117*			
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*85*	*69-110*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I14012 - EPA 5030B_MS

Matrix Spike Dup (0I14012-MSD1) Prepared: 09/14/2010 09:59 Analyzed: 09/14/2010 14:56

Source: C010549-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.24 U	98	75-133	1	20	
Benzene	24		1.0	ug/L	20.0	0.20 U	122	81-134	3	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	101	83-117	4	16	
Toluene	19		1.0	ug/L	20.0	0.27 U	97	71-118	2	17	
Trichloroethene	21		1.0	ug/L	20.0	0.38 U	107	75-115	4	18	
Surrogate: 4-Bromofluorobenzene	*41*			*ug/L*	*50.0*		*82*	*51-122*			
Surrogate: Dibromofluoromethane	*43*			*ug/L*	*50.0*		*87*	*68-117*			
Surrogate: Toluene-d8	*45*			*ug/L*	*50.0*		*91*	*69-110*			

Batch 0I22012 - EPA 5035_MS

Blank (0I22012-BLK1) Prepared: 09/22/2010 09:42 Analyzed: 09/22/2010 11:06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.00016	U	0.0010	mg/kg wet							
1,1,1-Trichloroethane	0.00018	U	0.0010	mg/kg wet							
1,1,2,2-Tetrachloroethane	0.00020	U	0.0010	mg/kg wet							
1,1,2-Trichloroethane	0.00023	U	0.0010	mg/kg wet							
1,1-Dichloroethane	0.00025	U	0.0010	mg/kg wet							
1,1-Dichloroethene	0.00030	U	0.0010	mg/kg wet							
1,1-Dichloropropene	0.00032	U	0.0010	mg/kg wet							
1,2,3-Trichlorobenzene	0.00021	U	0.0010	mg/kg wet							
1,2,3-Trichloropropane	0.00034	U	0.0010	mg/kg wet							
1,2,4-Trichlorobenzene	0.00027	U	0.0010	mg/kg wet							
1,2,4-Trimethylbenzene	0.00017	U	0.0010	mg/kg wet							
1,2-Dibromo-3-chloropropane	0.00079	U	0.0010	mg/kg wet							
1,2-Dibromoethane	0.00046	U	0.0010	mg/kg wet							
1,2-Dichlorobenzene	0.00027	U	0.0010	mg/kg wet							
1,2-Dichloroethane	0.00038	U	0.0010	mg/kg wet							
1,2-Dichloropropane	0.00026	U	0.0010	mg/kg wet							
1,3,5-Trimethylbenzene	0.00020	U	0.0010	mg/kg wet							
1,3-Dichlorobenzene	0.00022	U	0.0010	mg/kg wet							
1,3-Dichloropropane	0.00029	U	0.0010	mg/kg wet							
1,4-Dichlorobenzene	0.00020	U	0.0010	mg/kg wet							
2,2-Dichloropropane	0.00023	U	0.0010	mg/kg wet							
2-Butanone	0.00078	U	0.0050	mg/kg wet							
2-Chloroethyl Vinyl Ether	0.00049	U	0.0050	mg/kg wet							
2-Chlorotoluene	0.00018	U	0.0010	mg/kg wet							
2-Hexanone	0.00075	U	0.0050	mg/kg wet							
4-Chlorotoluene	0.00026	U	0.0010	mg/kg wet							
4-Isopropyltoluene	0.00016	U	0.0010	mg/kg wet							
4-Methyl-2-pentanone	0.00057	U	0.0050	mg/kg wet							
Acetone	0.0012	U	0.0050	mg/kg wet							
Benzene	0.00017	U	0.0010	mg/kg wet							
Bromobenzene	0.00022	U	0.0010	mg/kg wet							
Bromochloromethane	0.00041	U	0.0010	mg/kg wet							
Bromodichloromethane	0.00024	U	0.0010	mg/kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I22012 - EPA 5035_MS

Blank (0I22012-BLK1) Continued Prepared: 09/22/2010 09:42 Analyzed: 09/22/2010 11:06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bromoform	0.00045	U	0.0010	mg/kg wet							
Bromomethane	0.00023	U	0.0010	mg/kg wet							
Carbon disulfide	0.00039	U	0.0050	mg/kg wet							
Carbon Tetrachloride	0.00022	U	0.0010	mg/kg wet							
Chlorobenzene	0.00017	U	0.0010	mg/kg wet							
Chloroethane	0.00025	U	0.0010	mg/kg wet							
Chloroform	0.00017	U	0.0010	mg/kg wet							
Chloromethane	0.00015	U	0.0010	mg/kg wet							
cis-1,2-Dichloroethene	0.00023	U	0.0010	mg/kg wet							
cis-1,3-Dichloropropene	0.00013	U	0.0010	mg/kg wet							
Dibromochloromethane	0.00035	U	0.0010	mg/kg wet							
Dibromomethane	0.00031	U	0.0010	mg/kg wet							
Dichlorodifluoromethane	0.00045	U	0.0010	mg/kg wet							
Ethylbenzene	0.00020	U	0.0010	mg/kg wet							
Hexachlorobutadiene	0.00035	U	0.0010	mg/kg wet							
Isopropylbenzene	0.00015	U	0.0010	mg/kg wet							
m,p-Xylenes	0.00037	U	0.0020	mg/kg wet							
Methylene Chloride	0.00056	U	0.0010	mg/kg wet							
Methyl-tert-Butyl Ether	0.00030	U	0.0010	mg/kg wet							
Naphthalene	0.00024	U	0.0010	mg/kg wet							
n-Butyl Benzene	0.00022	U	0.0010	mg/kg wet							
n-Propyl Benzene	0.00018	U	0.0010	mg/kg wet							
o-Xylene	0.00022	U	0.0010	mg/kg wet							
sec-Butylbenzene	0.00022	U	0.0010	mg/kg wet							
Styrene	0.00017	U	0.0010	mg/kg wet							
tert-Butylbenzene	0.00016	U	0.0010	mg/kg wet							
Tetrachloroethene	0.00028	U	0.0010	mg/kg wet							
Toluene	0.00020	U	0.0010	mg/kg wet							
trans-1,2-Dichloroethene	0.00037	U	0.0010	mg/kg wet							
trans-1,3-Dichloropropene	0.00039	U	0.0010	mg/kg wet							
Trichloroethene	0.00027	U	0.0010	mg/kg wet							
Trichlorofluoromethane	0.00026	U	0.0010	mg/kg wet							
Vinyl chloride	0.00024	U	0.0010	mg/kg wet							
Xylenes (Total)	0.00056	U	0.0010	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*61-118*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*66-114*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.0*		*92*	*63-118*			

LCS (0I22012-BS1) Prepared: 09/22/2010 09:42 Analyzed: 09/22/2010 11:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		102	64-133			
Benzene	19		1.0	ug/L	20.0		96	79-129			
Chlorobenzene	19		1.0	ug/L	20.0		96	79-121			
Toluene	19		1.0	ug/L	20.0		95	77-120			
Trichloroethene	20		1.0	ug/L	20.0		99	78-118			
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*97*	*61-118*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*94*	*66-114*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I22012 - EPA 5035_MS

LCS (0I22012-BS1) Continued Prepared: 09/22/2010 09:42 Analyzed: 09/22/2010 11:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*96*	*63-118*			

Matrix Spike (0I22012-MS1) Prepared: 09/22/2010 09:42 Analyzed: 09/22/2010 12:03

Source: C011147-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.30 U	102	64-133			
Benzene	19		1.0	ug/L	20.0	0.17 U	96	79-129			
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	97	79-121			
Toluene	19		1.0	ug/L	20.0	0.47	94	77-120			
Trichloroethene	20		1.0	ug/L	20.0	0.27 U	98	78-118			
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*61-118*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*94*	*66-114*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*93*	*63-118*			

Matrix Spike Dup (0I22012-MSD1) Prepared: 09/22/2010 09:42 Analyzed: 09/22/2010 12:32

Source: C011147-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.30 U	95	64-133	7	23	
Benzene	19		1.0	ug/L	20.0	0.17 U	93	79-129	3	23	
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	94	79-121	3	25	
Toluene	19		1.0	ug/L	20.0	0.47	93	77-120	0.6	23	
Trichloroethene	19		1.0	ug/L	20.0	0.27 U	96	78-118	3	24	
Surrogate: 4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*93*	*61-118*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*66-114*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*94*	*63-118*			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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Page 1 of 2

Client Name: S&ME, Inc. (SM301)	Project Number: 1054 10 2002
Address: 3201 Spring Forest Road	Project Name (Site): Atkinson Street Contamination
City, ST/Zip: Raleigh, NC 27616	PO # / Billing Info:
Tel: (919) 872-2660 Fax: (919) 876-3958	Reporting Contact: Ed Woloszyn
Sampled By (Name & Affiliation (Print)): Gerald Paul S&ME	Billing Contact: Accounts Payable
Sampler Signature:	Site Location / Time Zone: Hamlet, NC

Requested Analyses: %Solids; 8260B

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C010261

Matrix	Sample ID (Field Identification)	Collection Date	Collection Time	Composite / Grab	Matrix (see codes)	Total # of Containers	%Solids	8260B	Preservation (See Codes) (Complete as necessary)	Sample Comments
	B-109-1 (13-15)	9/10/10	0945	GRAB	SO	4	X	X		
	B-109-2 (5-9)	↓	1045	↓	SO	4	X	X		
	B-109-3 (9-13)		1130		SO	4	X	X		
	B-109-4 (9-13)		1215		SO	4	X	X		
	~~DMW-1~~				SO	4	X	X		
	DMW-2				SO	4	X	X		
	~~DMW-3~~				SO	4	X	X		
	~~SMW-3~~				SO	4	X	X		
	Trip Blank				WA	2		X		No trip blank received 0956 9/13/10
	Eq Blank	9/10/10	1325	GRAB	WA	3		X		

<-- Total # of Containers

Sample Kit Prepared By: JK	Date/Time: 9/3/10	Relinquished By:	Date/Time: 9/13/10 1730
Comments, Special Reporting Requirements:		Received By:	Date/Time: 9/10/10 1730
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

Cooler #'s & Temps on Receipt: Blue 3.1°C

Condition Upon Receipt: ✓ Acceptable ___ Unacceptable

Matrix: GW-Groundwater SO-Soil SW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist.

www.encolabs.com

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515

www.encolabs.com

Wednesday, September 22, 2010

S&ME, Inc. (SM001)

Attn: Ed Woloszyn

3201 Spring Forest Road

Raleigh, NC 27616

RE: Laboratory Results for
Project Number: 1054-10-2002, Project Name/Desc: Atkinson Street Contamination
ENCO Workorder: C010311

Dear Ed Woloszyn,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, September 10, 2010.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 18.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID:	Haught Residence - WSW-1	Lab ID: C010311-01	Sampled: 09/10/10 12:20	Received: 09/10/10 17:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**		**Analysis Date/Time(s)**
EPA 8260B	09/24/10	09/14/10	09:59	9/14/2010 22:25

Client ID:	Jernigan Residence - WSW-2	Lab ID: C010311-02	Sampled: 09/10/10 12:50	Received: 09/10/10 17:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**		**Analysis Date/Time(s)**
EPA 8260B	09/24/10	09/14/10	09:59	9/14/2010 22:54

Client ID:	Butler Residence - WSW-3	Lab ID: C010311-03RE1	Sampled: 09/10/10 13:15	Received: 09/10/10 17:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**		**Analysis Date/Time(s)**
EPA 8260B	09/24/10	09/17/10	07:42	9/17/2010 14:07

Client ID:	Trip Blank	Lab ID: C010311-04	Sampled: 09/10/10 12:20	Received: 09/10/10 17:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**		**Analysis Date/Time(s)**
EPA 8260B	09/24/10	09/14/10	09:59	9/14/2010 21:55

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SAMPLE DETECTION SUMMARY

Client ID:	Haught Residence - WSW-1		Lab ID:	C010311-01			
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
1,1-Dichloroethane	1.2		0.33	1.0	ug/L	EPA 8260B	
1,1-Dichloroethene	7.1		0.24	1.0	ug/L	EPA 8260B	

Client ID:	Jernigan Residence - WSW-2		Lab ID:	C010311-02			
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
1,1-Dichloroethene	0.70	J	0.24	1.0	ug/L	EPA 8260B	

Client ID:	Butler Residence - WSW-3		Lab ID:	C010311-03RE1			
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
1,1-Dichloroethene	2.6		0.24	1.0	ug/L	EPA 8260B	

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ANALYTICAL RESULTS

Description: Haught Residence - WSW-1 | **Lab Sample ID:** C010311-01 | **Received:** 09/10/10 17:30

Matrix: Ground Water | **Sampled:** 09/10/10 12:20 | **Work Order:** C010311

Project: Atkinson Street Contamination | **Sampled By:** Gerald Paul

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
1,1-Dichloroethane [75-34-3] ^	**1.2**		ug/L	1	0.33	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
1,1-Dichloroethene [75-35-4] ^	**7.1**		ug/L	1	0.24	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.25	U	ug/L	1	0.25	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.94	U	ug/L	1	0.94	5.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
2-Chlorotoluene [95-49-8] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
4-Chlorotoluene [106-43-4] ^	0.25	U	ug/L	1	0.25	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
4-Isopropyltoluene [99-87-6] ^	0.26	U	ug/L	1	0.26	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
Bromobenzene [108-86-1] ^	0.28	U	ug/L	1	0.28	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	

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Description: Haught Residence - WSW-1
Matrix: Ground Water
Project: Atkinson Street Contamination

Lab Sample ID: C010311-01
Sampled: 09/10/10 12:20
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010311

Volatile Organic Compounds by GCMS

^ - *ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Isopropylbenzene [98-82-8] ^	0.24	U	ug/L	1	0.24	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.48	U	ug/L	1	0.48	2.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
n-Butyl Benzene [104-51-8] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
n-Propyl Benzene [103-65-1] ^	0.30	U	ug/L	1	0.30	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
o-Xylene [95-47-6] ^	0.27	U	ug/L	1	0.27	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
sec-Butylbenzene [135-98-8] ^	0.24	U	ug/L	1	0.24	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
tert-Butylbenzene [98-06-6] ^	0.28	U	ug/L	1	0.28	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	0I14012	EPA 8260B	09/14/10 22:25	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*39*	*1*	*50.0*	*79 %*	*51-122*	*0I14012*	*EPA 8260B*	*09/14/10 22:25*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*85 %*	*68-117*	*0I14012*	*EPA 8260B*	*09/14/10 22:25*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*86 %*	*69-110*	*0I14012*	*EPA 8260B*	*09/14/10 22:25*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Description: Jernigan Residence - WSW-2
Matrix: Ground Water
Project: Atkinson Street Contamination

Lab Sample ID: C010311-02
Sampled: 09/10/10 12:50
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010311

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
1,1-Dichloroethene [75-35-4] ^	**0.70**	J	ug/L	1	0.24	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.25	U	ug/L	1	0.25	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.94	U	ug/L	1	0.94	5.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
2-Chlorotoluene [95-49-8] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
4-Chlorotoluene [106-43-4] ^	0.25	U	ug/L	1	0.25	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
4-Isopropyltoluene [99-87-6] ^	0.26	U	ug/L	1	0.26	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
Bromobenzene [108-86-1] ^	0.28	U	ug/L	1	0.28	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
Isopropylbenzene [98-82-8] ^	0.24	U	ug/L	1	0.24	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.48	U	ug/L	1	0.48	2.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	

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Description: Jernigan Residence - WSW-2
Matrix: Ground Water
Project: Atkinson Street Contamination

Lab Sample ID: C010311-02
Sampled: 09/10/10 12:50
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010311

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
n-Butyl Benzene [104-51-8] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
n-Propyl Benzene [103-65-1] ^	0.30	U	ug/L	1	0.30	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
o-Xylene [95-47-6] ^	0.27	U	ug/L	1	0.27	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
sec-Butylbenzene [135-98-8] ^	0.24	U	ug/L	1	0.24	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
tert-Butylbenzene [98-06-6] ^	0.28	U	ug/L	1	0.28	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	0I14012	EPA 8260B	09/14/10 22:54	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*40*	*1*	*50.0*	*79 %*	*51-122*	*0I14012*	*EPA 8260B*	*09/14/10 22:54*	*JKG*	
Dibromofluoromethane	*44*	*1*	*50.0*	*88 %*	*68-117*	*0I14012*	*EPA 8260B*	*09/14/10 22:54*	*JKG*	
Toluene-d8	*44*	*1*	*50.0*	*88 %*	*69-110*	*0I14012*	*EPA 8260B*	*09/14/10 22:54*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Description: Butler Residence - WSW-3
Matrix: Ground Water
Project: Atkinson Street Contamination

Lab Sample ID: C010311-03
Sampled: 09/10/10 13:15
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010311

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
1,1-Dichloroethene [75-35-4] ^	**2.6**		ug/L	1	0.24	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.20	U	ug/L	1	0.20	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.25	U	ug/L	1	0.25	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.94	U	ug/L	1	0.94	5.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
2-Chlorotoluene [95-49-8] ^	0.20	U	ug/L	1	0.20	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
4-Chlorotoluene [106-43-4] ^	0.25	U	ug/L	1	0.25	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
4-Isopropyltoluene [99-87-6] ^	0.26	U	ug/L	1	0.26	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
Bromobenzene [108-86-1] ^	0.28	U	ug/L	1	0.28	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
Isopropylbenzene [98-82-8] ^	0.24	U	ug/L	1	0.24	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.48	U	ug/L	1	0.48	2.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	

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Description: Butler Residence - WSW-3
Matrix: Ground Water
Project: Atkinson Street Contamination

Lab Sample ID: C010311-03
Sampled: 09/10/10 13:15
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010311

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.38	U	ug/L	1	0.38	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
n-Butyl Benzene [104-51-8] ^	0.20	U	ug/L	1	0.20	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
n-Propyl Benzene [103-65-1] ^	0.30	U	ug/L	1	0.30	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
o-Xylene [95-47-6] ^	0.27	U	ug/L	1	0.27	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
sec-Butylbenzene [135-98-8] ^	0.24	U	ug/L	1	0.24	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
tert-Butylbenzene [98-06-6] ^	0.28	U	ug/L	1	0.28	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	0I17001	EPA 8260B	09/17/10 14:07	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*38*	*1*	*50.0*	*77 %*	*51-122*	*0I17001*	*EPA 8260B*	*09/17/10 14:07*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*85 %*	*68-117*	*0I17001*	*EPA 8260B*	*09/17/10 14:07*	*JKG*	
Toluene-d8	*45*	*1*	*50.0*	*90 %*	*69-110*	*0I17001*	*EPA 8260B*	*09/17/10 14:07*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: Trip Blank
Matrix: Water
Project: Atkinson Street Contamination

Lab Sample ID: C010311-04
Sampled: 09/10/10 12:20
Sampled By: ENCO

Received: 09/10/10 17:30
Work Order: C010311

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.25	U	ug/L	1	0.25	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.94	U	ug/L	1	0.94	5.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
2-Chlorotoluene [95-49-8] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
4-Chlorotoluene [106-43-4] ^	0.25	U	ug/L	1	0.25	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
4-Isopropyltoluene [99-87-6] ^	0.26	U	ug/L	1	0.26	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
Bromobenzene [108-86-1] ^	0.28	U	ug/L	1	0.28	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
Isopropylbenzene [98-82-8] ^	0.24	U	ug/L	1	0.24	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.48	U	ug/L	1	0.48	2.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	

Description: Trip Blank | **Lab Sample ID:** C010311-04 | **Received:** 09/10/10 17:30

Matrix: Water | **Sampled:** 09/10/10 12:20 | **Work Order:** C010311

Project: Atkinson Street Contamination | **Sampled By:** ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
n-Butyl Benzene [104-51-8] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
n-Propyl Benzene [103-65-1] ^	0.30	U	ug/L	1	0.30	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
o-Xylene [95-47-6] ^	0.27	U	ug/L	1	0.27	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
sec-Butylbenzene [135-98-8] ^	0.24	U	ug/L	1	0.24	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
tert-Butylbenzene [98-06-6] ^	0.28	U	ug/L	1	0.28	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	0I14012	EPA 8260B	09/14/10 21:55	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*41*	*1*	*50.0*	*83 %*	*51-122*	*0I14012*	*EPA 8260B*	*09/14/10 21:55*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*91 %*	*68-117*	*0I14012*	*EPA 8260B*	*09/14/10 21:55*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*91 %*	*69-110*	*0I14012*	*EPA 8260B*	*09/14/10 21:55*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I14012 - EPA 5030B_MS

Blank (0I14012-BLK1) Prepared: 09/14/2010 09:59 Analyzed: 09/14/2010 13:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,1-Dichloropropene	0.32	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.25	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.36	U	1.0	ug/L							
1,2,4-Trimethylbenzene	0.20	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,3,5-Trimethylbenzene	0.25	U	1.0	ug/L							
1,3-Dichlorobenzene	0.30	U	1.0	ug/L							
1,3-Dichloropropane	0.32	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2,2-Dichloropropane	0.55	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Chloroethyl Vinyl Ether	0.94	U	5.0	ug/L							
2-Chlorotoluene	0.20	U	1.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Chlorotoluene	0.25	U	1.0	ug/L							
4-Isopropyltoluene	0.26	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromobenzene	0.28	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Dichlorodifluoromethane	0.38	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Hexachlorobutadiene	0.35	U	1.0	ug/L							
Isopropylbenzene	0.24	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I14012 - EPA 5030B_MS

Blank (0I14012-BLK1) Continued Prepared: 09/14/2010 09:59 Analyzed: 09/14/2010 13:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
m,p-Xylenes	0.48	U	2.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.38	U	1.0	ug/L							
Naphthalene	0.39	U	1.0	ug/L							
n-Butyl Benzene	0.20	U	1.0	ug/L							
n-Propyl Benzene	0.30	U	1.0	ug/L							
o-Xylene	0.27	U	1.0	ug/L							
sec-Butylbenzene	0.24	U	1.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
tert-Butylbenzene	0.28	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*41*			*ug/L*	*50.0*		*82*	*51-122*			
Surrogate: Dibromofluoromethane	*42*			*ug/L*	*50.0*		*85*	*68-117*			
Surrogate: Toluene-d8	*44*			*ug/L*	*50.0*		*88*	*69-110*			

LCS (0I14012-BS1) Prepared: 09/14/2010 09:59 Analyzed: 09/14/2010 13:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0		91	75-133			
Benzene	21		1.0	ug/L	20.0		107	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		94	83-117			
Toluene	18		1.0	ug/L	20.0		90	71-118			
Trichloroethene	19		1.0	ug/L	20.0		97	75-115			
Surrogate: 4-Bromofluorobenzene	*40*			*ug/L*	*50.0*		*79*	*51-122*			
Surrogate: Dibromofluoromethane	*42*			*ug/L*	*50.0*		*83*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*84*	*69-110*			

Matrix Spike (0I14012-MS1) Prepared: 09/14/2010 09:59 Analyzed: 09/14/2010 14:26

Source: C010549-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.24 U	97	75-133			
Benzene	24		1.0	ug/L	20.0	0.20 U	118	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.27 U	97	83-117			
Toluene	19		1.0	ug/L	20.0	0.27 U	95	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.38 U	103	75-115			
Surrogate: 4-Bromofluorobenzene	*39*			*ug/L*	*50.0*		*76*	*51-122*			
Surrogate: Dibromofluoromethane	*41*			*ug/L*	*50.0*		*82*	*68-117*			
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*85*	*69-110*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I14012 - EPA 5030B_MS

Matrix Spike Dup (0I14012-MSD1) Prepared: 09/14/2010 09:59 Analyzed: 09/14/2010 14:56

Source: C010549-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.24 U	98	75-133	1	20	
Benzene	24		1.0	ug/L	20.0	0.20 U	122	81-134	3	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	101	83-117	4	16	
Toluene	19		1.0	ug/L	20.0	0.27 U	97	71-118	2	17	
Trichloroethene	21		1.0	ug/L	20.0	0.38 U	107	75-115	4	18	
Surrogate: 4-Bromofluorobenzene	*41*			*ug/L*	*50.0*		*82*	*51-122*			
Surrogate: Dibromofluoromethane	*43*			*ug/L*	*50.0*		*87*	*68-117*			
Surrogate: Toluene-d8	*45*			*ug/L*	*50.0*		*91*	*69-110*			

Batch 0I17001 - EPA 5030B_MS

Blank (0I17001-BLK1) Prepared: 09/17/2010 07:42 Analyzed: 09/17/2010 11:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,1-Dichloropropene	0.32	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.25	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.36	U	1.0	ug/L							
1,2,4-Trimethylbenzene	0.20	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,3,5-Trimethylbenzene	0.25	U	1.0	ug/L							
1,3-Dichlorobenzene	0.30	U	1.0	ug/L							
1,3-Dichloropropane	0.32	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2,2-Dichloropropane	0.55	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Chloroethyl Vinyl Ether	0.94	U	5.0	ug/L							
2-Chlorotoluene	0.20	U	1.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Chlorotoluene	0.25	U	1.0	ug/L							
4-Isopropyltoluene	0.26	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromobenzene	0.28	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I17001 - EPA 5030B_MS

Blank (0I17001-BLK1) Continued Prepared: 09/17/2010 07:42 Analyzed: 09/17/2010 11:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Dichlorodifluoromethane	0.38	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Hexachlorobutadiene	0.35	U	1.0	ug/L							
Isopropylbenzene	0.24	U	1.0	ug/L							
m,p-Xylenes	0.48	U	2.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.38	U	1.0	ug/L							
Naphthalene	0.39	U	1.0	ug/L							
n-Butyl Benzene	0.20	U	1.0	ug/L							
n-Propyl Benzene	0.30	U	1.0	ug/L							
o-Xylene	0.27	U	1.0	ug/L							
sec-Butylbenzene	0.24	U	1.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
tert-Butylbenzene	0.28	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*36*			*ug/L*	*50.0*		*73*	*51-122*			
Surrogate: Dibromofluoromethane	*42*			*ug/L*	*50.0*		*85*	*68-117*			
Surrogate: Toluene-d8	*41*			*ug/L*	*50.0*		*83*	*69-110*			

LCS (0I17001-BS1) Prepared: 09/17/2010 07:42 Analyzed: 09/17/2010 11:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0		97	75-133			
Benzene	23		1.0	ug/L	20.0		113	81-134			
Chlorobenzene	18		1.0	ug/L	20.0		92	83-117			
Toluene	19		1.0	ug/L	20.0		93	71-118			
Trichloroethene	20		1.0	ug/L	20.0		100	75-115			
Surrogate: 4-Bromofluorobenzene	*38*			*ug/L*	*50.0*		*76*	*51-122*			
Surrogate: Dibromofluoromethane	*43*			*ug/L*	*50.0*		*85*	*68-117*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I17001 - EPA 5030B_MS

LCS (0I17001-BS1) Continued Prepared: 09/17/2010 07:42 Analyzed: 09/17/2010 11:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*86*	*69-110*			

Matrix Spike (0I17001-MS1) Prepared: 09/17/2010 07:42 Analyzed: 09/17/2010 12:11

Source: C010137-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	2.9	99	75-133			
Benzene	23		1.0	ug/L	20.0	0.20 U	114	81-134			
Chlorobenzene	18		1.0	ug/L	20.0	0.27 U	92	83-117			
Toluene	19		1.0	ug/L	20.0	0.27 U	93	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.38 U	103	75-115			
Surrogate: 4-Bromofluorobenzene	*38*			*ug/L*	*50.0*		*76*	*51-122*			
Surrogate: Dibromofluoromethane	*43*			*ug/L*	*50.0*		*86*	*68-117*			
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*87*	*69-110*			

Matrix Spike Dup (0I17001-MSD1) Prepared: 09/17/2010 07:42 Analyzed: 09/17/2010 12:40

Source: C010137-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	25		1.0	ug/L	20.0	2.9	109	75-133	9	20	
Benzene	25		1.0	ug/L	20.0	0.20 U	124	81-134	8	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	101	83-117	10	16	
Toluene	20		1.0	ug/L	20.0	0.27 U	101	71-118	8	17	
Trichloroethene	22		1.0	ug/L	20.0	0.38 U	112	75-115	8	18	
Surrogate: 4-Bromofluorobenzene	*40*			*ug/L*	*50.0*		*80*	*51-122*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*88*	*68-117*			
Surrogate: Toluene-d8	*45*			*ug/L*	*50.0*		*89*	*69-110*			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.

ENVIRONMENTAL CONSERVATION LABORATORIES
10775 Central Port Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 850-6345
4810 Executive Park Court, Suite 211 Jacksonville, FL 32216-6069 (904) 296-3007 Fax (904) 296-6210
102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3090 Fax (919) 467-3515

CHAIN-OF-CUSTODY RECORD

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Client Name: S&ME, Inc. (SM001)	Project Number: 1054-10-2002
Address: 3201 Spring Forest Road	Project Name/Desc: Atkinson Street Contamination
City/ST/Zip: Raleigh, NC 27616	PO # / Billing Info:
Tel: (919) 872-2660 Fax: (919) 876-3958	Reporting Contact: Ed Woloszyn
Sampler(s) Name, Affiliation (Print): Gerald Paul S&ME	Billing Contact: Accounts Payable
Sampler(s) Signature:	Site Location / Time Zone: Hamlet NC

Requested Analyses: 8260B

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C010311

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Preservation (See Codes) (Combine as necessary)	Sample Comments
	DMW-1				GW	3	X	
	DMW-2				GW	3	X	
	DMW-3				GW	3	X	
	SMW-3				GW	3	X	
	Haught Residence - WSW-1	9/10/10	1220	GRAB	GW	3	X	
	Jernigan Residence - WSW-2	↓	1250	↓	GW	3	X	
	Butler Residence - WSW-3	↓	1315	↓	GW	3	X	
	Dup				GW	3	X	
	Equip Blank				WA	3	X	
	Trip Blank				WA	2	X	

<-- Total # of Containers

Sample Kit Prepared By: JL	Date/Time: 9-3-10	Relinquished By:	Date/Time: 9/10/10 1730	Received By:	Date/Time: 9/10/10 1730
Comments/Special Reporting Requirements:		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Cooler # s & Temps on Receipt: C-234 3.1°C		Condition Upon Receipt: ✓ Acceptable ___ Unacceptable	

Matrix: GW-Groundwater SO Soil DW-Drinking Water SE Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I Ice H HCl N HNO3 S H2SO4 NO NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

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