37IHSSF3006

DocumentID	NONCD0002832
Site Name	MARY CHAPPEL RESIDENCE
DocumentType	Site Assessment Rpt (SAR)
RptSegment	1
DocDate	11/11/2010
DocRcvd	11/12/2010
Box	SF3006
AccessLevel	Public
Division	Waste Management
Section	Superfund
Program	IHS (IHS)
DocCat	Facility

S&ME

FILE

LIMITED SOIL AND GROUNDWATER ASSESSMENT REPORT
MARY CHAPPELL SITE
1061 HIGHWAY 177 NORTH
HAMLET, RICHMOND COUNTY, NORTH CAROLINA
ORPHAN PRIORITY SITE CONTRACT #N10005S

NONCD 0002832

Prepared for:

North Carolina Department of Environment and Natural Resources
Division of Waste Management
Superfund Section
Inactive Hazardous Site Branch

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NOV 12 2010
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November 11, 2010

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1.0 INTRODUCTION

S&ME's scope of services were performed in general accordance with our proposal P136-10V Rev. 1.0, dated July 29, 2010, and as authorized by NCDENR's Task Authorization No. 1 dated July 29, 2010 and Task Authorization No. 2 dated October 19, 2010 for the Orphan Site Cleanup under Contract No. N10005S.

S&ME's approved scope of services for this task authorization included preparing a site specific health and safety plan, obtaining seven monitor well installation permits for the Richmond County Health Department and the North Carolina Division of Water Quality, gauging the on-site (Mary Chappell) water supply well, installing seven Type II monitor wells, collecting one soil and one groundwater sample from each borehole (GP-1 through GP-7), sampling six water supply wells, surveying the newly installed Type II monitor wells and preparing this report.

S&ME completed the following scope of services:

- Prepared a site specific health and Safety Plan for the site based upon suspected contamination of chlorinated solvents;
- Obtained seven well installation permits (GP-1 through GP-7);
- Gauged the on-site water supply well for total depth, water level and screened interval;
- Installed six Type II monitor wells (GP-5 was abandoned due to insufficient water volume in the well);
- Collected one soil sample and one groundwater sample from each sampling location (no groundwater sample was collected from GP-5);
- Obtained permission and sampled four water supply wells (one property owner refused sampling and one well had been destroyed by a fire at the residence);
- Contracted to survey the top of casing elevations from the newly installed monitor wells;
- Prepared this report.

2.0 PROJECT BACKGROUND

The Mary Chappell site is located 1061 NC Highway 177 North in Hamlet, Richmond County, North Carolina. The site and vicinity are shown in **Figure 1**. A private drinking water well at the Mary Chappell residence was found to be contaminated with trichloroethylene (TCE). Previous analytical tests performed on water sampled from the Mary Chappell supply well detected TCE concentrations ranging from 25.7 to 70.6 micrograms per liter (μg/L). No construction records on the Mary Chappell well were available to review, but the well is believed to have been constructed to a depth of possibly 65 to 100 feet below the ground surface. The site –specific lithology at the Mary Chappell property, such as the depth and thickness of confining layers was uncertain prior to this investigation.

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 Mary Chappell site on June 24, 2010. During this site visit, containers such as steel tanks, 55-gallon drums, 5-gallon and 1-gallon plastic containers, paint cans and solvent cans were observed on the property. One wood pallet supported a wooden crate filled with various sized metal containers that had various quantities of unknown contents. The labels on the containers observed were illegible. However, based on the sizes and types of the containers, they appeared to have been used for paint, solvents, or other products. The conditions of the containers were fair to poor or had holes from corrosion. The pallet with the containers was observed near the north end of an existing concrete block building. The building had separate bays similar to a garage or shop building. The concrete block building is located north of the residence within a portion of the parcel surrounded by a chain-link fence. In addition, heavy equipment (tractors) was observed within the fenced-in area of the Mary Chappell property. A site map is shown on **Figure 2**.

Previous investigations that included sampling water supply wells were performed in the area by the North Carolina Division of Water Quality and Richmond County Health Department. Based on information from Mr. Mike Norton of the Richmond County Health Department, water supply wells were sampled to assess potential contaminant concentrations from former peach orchard operations. S&ME is not aware of any additional environment investigations or assessments that may have been completed to date at the Mary Chappell property.

This limited investigation of the Mary Chappell site is intended to assess potential sources for the TCE detected in the water supply well at the subject property. Other potential sources of the constituents detected in the groundwater include the former orchard operations and/or the CSX railroad site that is located about 600 feet to the south.

3.0 SITE ACTIVITIES

S&ME personnel performed site activities to clear utilities, sample soil, describe lithology, install monitor wells, sample water supply wells, and sample groundwater from the monitor wells between September 7 and 20, 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 shallow groundwater samples at predetermined locations throughout the site. S&ME prepared a site-specific health and safety plan (HASP), 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 also contacted Donald B. McCallum who is a well driller registered in Richmond County North Carolina, to obtain the well construction information and depth to groundwater in the Mary Chappell water supply well (WSW-1).

3.2 Limited Soil and Groundwater Sampling

On September 7, 8, 9 and 10, 2010, S&ME utilized direct-push drilling technology to advance 7 soil borings. A photographic log from the S&ME site visit is included in **Appendix I.** Eight soil samples (seven record samples and one duplicate) were selected for analysis. Monitor wells were installed in six of the seven soil borings. One soil boring met refusal and did not intercept the water table. Six groundwater samples were collected for analysis.

3.2.1 Soil Assessment

Soil borings were advanced below the ground surface with the direct-push hydraulic drill rig. 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 approximately 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 selected soil samples 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.

Since the source for the TCE contamination at the Mary Chappell site was not certain, the soil samples were analyzed for metals by EPA Methods 6010B/7470, volatile organic compounds (VOCs) by EPA Method 8260B, semi-volatile organic compounds (SVOCs)

by EPA Method 8270D and pesticides by Method 8081B. A list of the soil samples and their corresponding detections by the laboratory analysis are included as **Table 2. Tables 3 through 5** are constituent specific detection summaries for the soil samples. Subsurface lithology and field screening results for the soil borings are provided in the boring logs in **Appendix II.**

3.2.2 Groundwater Assessment

Installation of Monitor Wells

S&ME personnel used the hydraulic direct push drill equipment to attempt to advance borings GP-1, GP-2, GP-3, GP-4, GP-5, GP-6, and GP-7 into the groundwater table after collecting soil samples. The boring for GP-5 met refusal at a depth of 49.6 feet below the ground surface and did not penetrate the groundwater table. At each of the remaining boring locations, monitor wells were installed in the boreholes. Boring locations where monitor wells were installed were given a "GP" designation and are shown on **Figure 2**.

A monitor well was installed in each borehole to allow groundwater to flow from the soil formation and enter the well for sample collection. The monitor wells were constructed by installing approximately ten foot lengths of one-inch diameter polyvinyl chloride (PVC) slotted (0.010-inch) screens that were pre-packed with filter sand and bentonite seals. Sufficient lengths of one-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 pre-packed bentonite seals and then filling the boring annulus from the top of the bentonite seal to the ground surface with cement grout. The field notes are included in **Appendix II**. The details of the monitor well construction are depicted on the boring logs included as **Appendix II** and are summarized in **Table 6**.

Monitor well development was performed upon the completion of the well installations using a new disposable PVC bailer and new section of nylon cord in each well. Well development was performed to attempt to remove liquids influenced by drilling and sediment suspended in the water column in the well and in the surrounding sand pack. After well development was performed, the same bailer used to develop the monitor well was also used to collect the groundwater sample from that well.

Depth to Water

Upon completion of the monitor well installations, the wells were developed and allowed to equilibrate before water levels were measured. 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. Groundwater was encountered at depths ranging from 37.45 ft-bgs in GP-4 to 46.68 ft-bgs in GP-6. The groundwater elevations are summarized in **Table 7**.

Based upon topographic information and current shallow groundwater elevations, the shallow groundwater beneath the subject site appears to flow generally to the south-southeast toward Highway 177 at a gradient of approximately 0.027. The September 20,

2010 water level measurements were used to prepare the shallow groundwater contour map (**Figure 6**). Calculations are shown in **Appendix III**.

Monitor Well Sample Collection

After measuring the depth-to-water on September 20, 2010, S&ME personnel purged the six newly installed monitor wells using a new PVC disposable bailer and new section of nylon cord. Purge water was evacuated and field parameters (pH, temperature, specific conductance) were measured after each well was purged dry. A summary of the field parameters recorded on September 20, 2010 is included in **Table 8.** A copy of the field groundwater sampling logs is in **Appendix IV.**

After purging each well dry, S&ME personnel collected groundwater samples from each of the six monitor wells by pouring the water from the bailer 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 under chain-of-custody procedures to Environmental Conservation Laboratories, Inc., (ENCO) in Cary, North Carolina. ENCO is a North Carolina certified laboratory who analyzed the groundwater samples by EPA Method 8260B for VOCs.

Boring Abandonment / IDW Management

The boring for GP-5 was permanently abandoned by filling the borehole with bentonite grout after the borehole was left open for several days without measurable infiltration of groundwater. Investigative derived wastes (IDW), such as soil cuttings generated during the soil boring advancement and groundwater sampling, were disposed of in accordance with the procedures specified by NCDENR. Specifically, the soil cuttings were spread and the purged groundwater poured onto the ground surface. The soil boring/monitor well completion reports are included in **Appendix II**.

Water Supply Well Sampling

On September 3, 2010, Mr. McCallum opened the Mary Chappell water supply well, he gauged and recorded a water level of 72.58 feet below the top of the casing. (ft-btoc). The supply well is four inches in diameter and the screened interval was 88.5 ft-btoc to 98.5 ft-btoc. Upon completion, Mr. McCallum shocked the well with chlorine and re-sealed the wellhead. S&ME collected a sample from the well after it was re-sealed and analyzed the water for total coliform which was "absent" and E-coli bacteria which was also "absent" based on the analytical report. On September 8, 2010, the water supply wells at the Mary Chappell (WSW-1), Mark Chappell (WSW-2), William Brown (WSW-5), and Herman Russell (WSW-4) properties were sampled. 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, for SVOCs by EPA Method 8270D and for metals by EPA Method 6010C. The water supply well locations are shown on **Figure 8**.

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. Sandy clay layers were encountered at depths of approximately 5 to 17 ft-bgs, 25 to 29 ft-bgs, and at the termination depths of the borings between 40 and 49 ft-bgs. Where present, groundwater was encountered near the termination depth of the borings. The less permeable sandy clay layers likely act to retard downward migration of groundwater and constituents that may be present in the soil or groundwater. Detailed descriptions of the lithology encountered at the boring locations are presented on the boring logs (Appendix II).

4.2 Soil Analyses

Regulatory Standards

The Division of Waste Management (DWM), Inactive Hazardous Sites Branch (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

No VOC, SVOC, or pesticide concentrations were detected by the analytical tests on the record soil samples or the duplicate soil sample that were above the laboratory method reporting limit (MRL). A concentration of 4-isopropyltouene in soil collected from GP-5 between 0 and 5 ft-bgs and a concentration of di-n-butylphthalate in soil collected from GP-1 between 17 and 21 ft-bgs were detected. Both compound concentrations were above the method detection limit (MDL) but were below the MRL. Tentatively identified compounds (TICs) were also reported by the laboratory in the samples analyzed for VOCs and SVOCs. However, the reported TIC concentrations were below the MRL. Note that the reporting limit for SVOC TIC concentrations is above the IHSB action level for some listed constituent detections (See **Tables 3 and 4**).

Inorganic Constituents

Twelve inorganic constituents (metals) were detected in the soil samples collected from the subject site. Some of the PSRGs developed by the IHSB may be more stringent than laboratory practical quantitation limits (PQLs) or naturally-occurring concentrations of metals. For metals only, IHSB remediation guidelines do not require cleanup to below site-specific natural background concentrations or PQLs. The analytical results from the soil samples collected for this limited assessment were compared to the PSRGs **(Table 5)**.

The soil sample from GP-2 collected from the depth of 17 to 21 ft-bgs a concentration of selenium (23.6 mg/Kg) that was above the IHSB groundwater protection PSRG **(Tables 2 and 5)**.

4.3 Groundwater Sampling Results

Regulatory Standards

Constituent concentrations detected in the groundwater samples that were above the laboratory MDLs are summarized on **Table 9**. 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)
- IHSB Residential Vapor Intrusion Screening Levels-Acceptable Groundwater Concentrations, hereafter referred to as IHSB-VISL.

Monitor Wells

No VOC concentrations were detected above the listed State or Federal regulatory standards or the IHSB action levels by the analytical tests on the record or duplicate groundwater samples. Concentrations of acetone in groundwater from GP-3, GP-4, GP-6, and GP-7, 2-butanone in groundwater from GP-3, and chloroform in groundwater from GP-1 and GP-2 were above the MDL. Chloromethane was detected above the MDL but below the MRL in the Equipment Blank. The groundwater analytical results are summarized in **Table 9**, and a Shallow Groundwater Constituent Concentration Map is included as **Figure 7**.

Water Supply Wells

Organic Compounds

Groundwater samples were collected on September 8, 2010 from four water supply wells. The laboratory analytical results indicated that TCE was detected at concentrations that were greater than the compound-specific NCAC 2L Standard of 3 µg/L in water from the Mary Chappell supply well (Sample ID WSW-1). TCE was also detected in the water from the William Brown supply well (Sample ID WSW-5) at a concentration of 1.2 µg/L; however, this TCE concentration was below the NCAC 2L Standard. Naphthalene was present at a concentration of 2.8 µg/L in the water analyzed from the Mary Chappell supply well WSW-1, but this concentration was also less than the NCAC 2L Standard for naphthalene. The groundwater analyses from the Mark Chappell water supply well (Sample ID WSW-2) and Herman Russell water supply well (Sample ID WSW-4) did not detect VOCs above the MDL. The sample analyses for SVOCs detected only an estimated concentration of bis(2-ethylhexyl)phthalate in the water analyzed from Herman Russell's supply well WSW-4. The groundwater analytical results are summarized in **Table 9**. The Groundwater Constituent Map for the water supply wells is in **Figure 8**.

Historical groundwater analyses obtained during the state and county file review indicated several water supply wells to the northwest and west of the Mary Chappell site have low levels of TCE in the drinking water. Data from eleven water supply wells was plotted. Two wells were located to the east of the Mary Chappell Site. These two wells had no VOC concentrations detected in samples collected in either October 2008 or March 2009. Six water supply wells were located west of the Mary Chappell site. Three

supply wells sampled had detections of TCE and three supply wells sampled had no VOC detections from monitoring performed between 2008 and 2010. Two supply wells that were sampled were to the northwest of the Mary Chappell site. Both wells located to the northwest had detections of TCE, which were below the NCAC 2L standard. These data is presented on **Figure 9**.

Inorganic Compounds

Based on the analytical testing, the water from the Mary Chappell water supply well WSW-1 had concentrations of beryllium, cadmium, chromium, copper, lead, manganese, thallium and zinc. Only the lead concentration exceeded the compound-specific NCAC 2L Standard of 15 μg/L and USEPA MCL of 15 μg/L. Groundwater from the Mark Chappell water supply well WSW-2 had concentrations of copper, lead, manganese, thallium and zinc; however, none of the metal concentrations exceeded regulatory levels. The water from the William Brown water supply well WSW-5 had concentrations of arsenic, copper, and thallium at levels below regulatory standards. The groundwater from the Herman Russell water supply well WSW-4 had concentrations of copper, thallium, selenium silver, and zinc that were below regulatory standard concentrations.

A summary of the September 8, 2010 groundwater analytical results for water supply wells and a comparison to NCDENR's regulatory standards is included on **Table 10**. The water supply well groundwater constituent concentrations are presented on **Figure 8**, and copy of the laboratory analytical results and chain-of-custody form is included in **Appendix V**.

5.0 CONCLUSIONS

A limited soil and groundwater assessment was conducted at the Mary Chappell site located on Highway 177 in Hamlet, North Carolina in an effort to locate potential sources of TCE contamination detected in the on-site water supply well. The assessment reviewed subsurface soils, shallow groundwater quality, groundwater quality from the drinking water supply well on site, and drinking water quality from three supply wells in the area of the subject site. The findings at the site are as follows:

- The lithology at the subject site consists of soil composed of fine to medium sand separated by clayey sand layers with variable thicknesses. Two sandy clay layers were encountered at depths that varied between approximately 5 and 17 ft-bgs, and 25 to 29 ft-bgs. A third sandy clay layer was encountered at the termination depths of the borings between 40 and 49 ft-bgs. Where present, groundwater was encountered near the termination depth of the borings. The less permeable sandy clay layers likely act to retard downward migration of groundwater and constituents that may be present in the soil or groundwater.

- No concentrations of VOCs or SVOCs exceed IHSB action levels in the shallow soil.

- One soil sample (GP-2, 17 to 21 ft-bgs) had concentrations of arsenic and selenium that were above one or both of the IHSB health –based and groundwater protection PSRGs.

- The shallow groundwater appears to flow to the south-southeast toward Highway 177. Based on analytical testing, the shallow groundwater does not appear to be contaminated with TCE at the shallow monitor well locations.

- Laboratory analytical results of the shallow groundwater samples indicated no VOC concentrations were detected above the listed 15A NCAC 2L Standards, or the Federal MCL standards, or the IHSB action levels.

- Analytical results from the September 8, 2010 water supply well samples indicated that TCE and lead were present at concentrations above the NCAC 2L standard in water from the Mary Chappell supply well. The William Brown water supply well west of the site had TCE present at concentrations below the NCAC 2L standard.

- Historical groundwater analyses reviewed during the state and county file review indicated several water supply wells to the northwest and west of the Mary Chappell site have low levels of TCE in the drinking water. The TCE levels detected were below the NCAC 2L Standard.

The data obtained from this assessment did not provide sufficient evidence to indicate that a source of TCE exists on-site. The groundwater aquifer above a confining layers at a depth of approximately 49 feet below the ground surface had no reported

concentrations of TCE that were above the analytical method's detection limit. In addition, the water supply well for the Mary Chappell site is apparently screened at a depth interval between 88.5 feet and 98.5 feet below the top of casing, which is in an aquifer below the confining clay layer encountered at approximately 49 ft-bgs.

Since TCE was not detected in the shallow aquifer above the confining layer at 49 ft-bgs, this evidence indicates that a potential source of TCE may exist elsewhere. Additional evidence supporting this theory exists in historical analytical data reporting low levels of TCE in water supply wells west of the Mary Chappell site. Additional analytical and subsurface data from the groundwater aquifer at elevations that directly correspond to the aquifer zone intersected by the Mary Chappell well is needed to assess and/or approximate the source of TCE in the confined aquifer.

Tables

Table 1	Field Screening Results
Table 2	Summary of Soil Sampling Results
Table 3	Summary of VOC Concentrations in Soil (mg/Kg)
Table 4	Summary of SVOC Concentrations in Soil (mg/Kg)
Table 5	Summary of Metal Concentrations in Soil (mg/Kg)
Table 6	Monitor Well Construction
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Table 9	Groundwater Sample Analyses (September 20, 2010)
Table 10	Water Supply Well Sample Analyses

Table 1
Soil Field Screening Results
Mary Chappell Site
1061 NC Highway 177 North
Hamlet, Richmond County, North Carolina
S&ME Project No. 1054-10-2003
Soil Samples Collected on September 7, 8, & 9, 2010

Boring ID	Depth (ft-bgs)	PID (PPM)
GP-1	0-5	0.0
GP-1	5-9	0.0
GP-1	9-13	0.6
GP-1	13-17	0.8
GP-1	**17-21**	**1.0**
GP-1	21-25	0.6
GP-1	25-29	0.6
GP-1	29-33	0.4
GP-1	33-37	0.2
GP-1	37-41	0.6
GP-2	0-5	0.1
GP-2	5-9	0.0
GP-2	9-13	0.0
GP-2	13-17	0.0
GP-2	**17-21**	**0.6**
GP-2	21-25	0.0
GP-2	25-29	0.0
GP-2	29-32	0.1
GP-2	32-37	0.0
GP-2	37-41	0.0
GP-2	41-45	0.4
GP-3	0-5	0.2
GP-3	5-9	1.3
GP-3	9-13	74.6
GP-3	**13-17**	**360**
GP-3	17-21	1.6
GP-3	21-25	0.2
GP-3	25-29	0.1
GP-3	29-33	0.3
GP-3	33-37	0.2
GP-3	37-41	0.1
GP-4	0-5	0.0
GP-4	5-9	0.0
GP-4	9-13	0.0
GP-4	13-17	0.0
GP-4	17-21	0.1
GP-4	21-25	0.0
GP-4	25-29	0.0
GP-4	**29-33**	**0.4**
GP-4	33-37	0.0
GP-4	37-41	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 1
Soil Field Screening Results
Mary Chappell Site
1061 NC Highway 177 North
Hamlet, Richmond County, North Carolina
S&ME Project No. 1054-10-2003
Soil Samples Collected on September 7, 8, & 9, 2010

Boring ID	Depth (ft-bgs)	PID (PPM)
GP-5	**0-5**	**30.4**
GP-5	5-9	21.6
GP-5	9-13	4.6
GP-5	13-17	4.3
GP-5	17-21	5.2
GP-5	21-25	1.4
GP-5	25-29	0.9
GP-5	29-33	0.4
GP-5	33-37	0.1
GP-5	37-41	1.0
GP-5	41-45	1.0
GP-6	0-5	0.8
GP-6	5-9	1.2
GP-6	9-13	0.7
GP-6	13-17	0.8
GP-6	17-21	0.7
GP-6	21-25	0.2
GP-6	**25-29**	**0.8**
GP-6	29-32	0.8
GP-6	32-36	0.6
GP-6	36-40	0.7
GP-7	0-5	0.0
GP-7	5-9	0.0
GP-7	9-13	0.0
GP-7	13-17	0.2
GP-7	17-21	0.1
GP-7	21-25	0.0
GP-7	**25-29**	**0.8**
GP-7	29-32	0.0
GP-7	32-36	0.0
GP-7	36-40	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 (mg/Kg)[1]
Mary Chappell Site
1061 NC Highway 177 North
Hamlet, Richmond County, North Carolina
S&ME Project No. 1054-10-2003

Analytical Method			VOC[5] by EPA Method 8260B					
Contaminant of Concern								
Sample ID	Date Collected (m/dd/yy)	Sample Depth (ft-bgs[2])	Chloromethane	4-Isopropyltoluene	Naphthalene	1,1,2,2,-Tetrachloroethane	1,1,2,-Trichloroethane	Trichloroethylene
GP-1	9/9/2010	17-21	<0.00016	<0 00017	<0 00026	<0 00021	<0 00025	<0.00029
GP-2	9/9/2010	17-21	<0.00017	<0.00018	<0.00027	<0 00022	<0 00025	<0.00030
GP-3	9/9/2010	13-17	<0.00014	<0 00015	<0 00023	<0.00019	<0 00022	<0 00026
GP-4	9/8/2010	29-33	<0.00016	<0.00018	<0.00026	<0 00022	<0 00025	<0.00030
GP-5	9/7/2010	0-5	<0.00016	0.00087J	<0.00025	<0.00021	<0 00024	<0 00028
GP-6	9/8/2010	5-9	<0.00016	<0.00017	<0.00026	<0 00022	<0 00025	<0.00029
GP-7	9/8/2010	25-29	<0.00017	<0 00018	<0.00027	<0.00023	<0 00026	<0.00031
Dup (GP-1)	9/8/2010	17-21	<0.00016	<0.00017	<0.00026	<0.00021	<0.00025	<0.00029
Equipment Blank	09/09/10	-	<0.00034	<0 00026	<0.00039	<0.00033	<0 00037	<0 00038
IHSB Soil Remediation Goal Preliminary HB PSRG[3]			24	NL	3.60	0.56	1.1	2 80
IHSB Soil Remediation Goal PG PSRG[4]			0 02	NL	0.21	0.0012	NL	0.02

Analytical Method	VOC Tentatively Identified Compounds (TICs) by Method 8260B																					SVOC[6] by EPA Method 8270D				SVOC Tics by EPA Method 8270D				
Sample ID	L-Fenchone	Benzoic acid, 4-methyl-2-ir	Bicyclo[2,2,1]heptan-2-ol	Bicyclo[2,2,1]heptan-2-one,	Camphene	Camphor	Carbon Dioxide	Cyclohexene, 1-methyl-4(1-	Cyclohexene, 1-methyl-4(1-	Cyclopentasiloxane, decamet	Cyclotetrasiloxane, octamet	7H-Dibenzo[b,g]carbazole,7	1,3,6-Heptatriene, 2,5,5,-tr	D-Limonene	Limonene	alpha-Pinene	Benzoic Acid	Bis(2-ethylhexyl) phthalate	Di-n-butylphthalate	Naphthalene	Cyclohexanemethanol, 4-hydroxy	IR-alpha-Pinene	1,1,2,2,-Tetrachloroethane	1,1,2,-Trichloroethane	7-Oxabicyclo[4,1,0]heptane
GP-1	NR	NR	NR	NR	NR	NR	0.11J	NR	NR	0.0049JB	0.010JB	NR	NR	NR	NR	NR	<0.12	<0.040	0.041J	<0 027	NR	NR	0.28JB	<0 027	NR
GP-2	NR	NR	NR	NR	NR	NR	0.086J	NR	NR	0.0060JB	0.015J	NR	NR	NR	NR	NR	<0.12	<0.041	<0.034	<0.028	NR	NR	0.25JB	<0.028	NR
GP-3	NR	NR	NR	NR	NR	NR	0.130	NR	NR	0.0055JB	0.012J	NR	NR	NR	NR	NR	<0.13	<0.045	<0.038	<0.031	NR	NR	0.43JB	0.18J	0.21J
GP-4	NR	0.012J	NR	NR	NR	NR	0.16J	NR	NR	0.0051JB	NR	NR	NR	NR	NR	NR	<0.12	<0.041	<0 034	<0.027	NR	NR	0.45JB	0.19J	0.21J
GP-5	0.0042J	NR	0.0076J	0.0073J	0.014J	NR	0.19J	0.010J	0.011J	NR	NR	NR	NR	0.019J	NR	0.088J	<0.11	<0.038	<0.032	<0.026	0.14J	0.27J	0.39JB	0.16J	NR
GP-6	NR	NR	NR	NR	NR	NR	0.21J	NR	NR	0.0057JB	NR	0.012J	NR	NR	NR	NR	<0.12	<0.040	<0 034	<0.027	NR	NR	0.27JB	NR	NR
GP-7	NR	NR	NR	NR	NR	NR	0.11J	NR	NR	0.0053JB	0.013J	NR	NR	NR	NR	NR	<0.12	<0 042	<0.035	<0.028	NR	NR	0.28JB	NR	NR
Dup (GP-1)	NR	NR	NR	NR	NR	NR	0.26J	NR	NR	0.0077JB	0.025J	NR	NR	NR	NR	NR	<0.12	<0.040	<0 033	<0.027	NR	NR	0.41JB	0.18J	0.20J
Equipment Blank	NR	NR	NR	NR	NR	NR	0.110J	NR	NR	NR	NR	NR	NR	NR	NR	NR	<0.012	<0.0017	<0.0015	<0.0013	NR	NR	NR	NR	NR
IHSB Soil Remediation Goal Preliminary HB PSRG[3]	NL	49,000	NL	NL	NL	NL	NL	NL	120	NL	NL	NL	NL	NL	NL	NL	49,000	35	1,200	3 69	NL	NL	0.56	1.1	NL
IHSB Soil Remediation Goal PG PSRG[4]	NL	130	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	130	72	19	0.21	NL	NL	0.0012	NL	NL

Analytical Method	Metals by EPA Method 6010											
Sample ID	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Thallium	Zinc
GP-1	0.528J	<0.0129	<0 0103	0.925	0.454J	0.473J	0.324J	<0 00515	<0.386	0.207JB	0.165J	<1.18
GP-2	10.7	0.0210J	<0.0106	29.2	49.2	3.17	2.61	<0.00530	<0.398	23.6B	0.64	3.32
GP-3	4.04	<0.0147	<0 0117	7.44	5.78	1.50	3.38	0.0242	<0 440	1.12B	0.541J	2.11J
GP-4	1.22	<0 0132	<0.0105	1.34	3.10	0.846	0.291J	0.00765J	<0 395	0.942J	0.160J	<1 21
GP-5	0.739	<0.0124	<0.00993	2.16	0.97	2.08	7.53	<0 00496	0.691J	0.144JB	0.379J	1.62J
GP-6	0.728	<0.0130	<0.0104	2.48	1.18	1.19	3.51	<0 00521	0.446J	0.347JB	0.148J	1.42J
GP-7	1.56	<0 0136	<0.0109	1.93	4.58	0.92	0.331J	<0.00544	<0.408	0.904B	0.235J	<0.408
Dup (GP-1)	0.418J	<0.0129	<0.0103	0.939	0.598	0.438J	0.312J	<0.00515	<0.386	0.309JB	0.132J	1.38J
Equipment Blank	<0.0028	<0 0001	<0.00036	<0.0001	<0.0016	<0.0019	4.07JB	<0.00017	<0.0018	4.64J	<0.00011	<0 0038
IHSB Soil Remediation Goal Preliminary HB PSRG[3]	4.40	31	14	23,000	630	400	370	4.7	.310	78	NL	4,700
IHSB Soil Remediation Goal PG PSRG[4]	5.80	NL	3	360,000	700	270	65	1.0	130	2.1	NL	1,200

Notes:
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 Preliminary Soil Remediation Goals. January 2010.
4. PG PSRGs = NDCENR Inactive Hazardous Sites Branch Health-Based Preliminary Soil Remediation Goals. January 2010.
5. VOCs = Volatile Organic Compounds.
6 TICs = Tentatively Identified Compounds.
7. SVOVs = Semi Volatile Organic Compounds by EPA Method 8270D.
8 NR - not reported
9. J = concentration detected above the method detection limit but below the sample method reporting limit.
10. B = The analyte was detected in the associated method blank.
11. < = denotes less than sample detection limit.
12. NL = No Standard Listed.
Bold depicts constituents detected above the sample method detection limit.
Bold and shaded depicts constituents detected above the IHSB PSRGs.

Table 3
Summary of VOC Concentrations in Soil (mg/Kg)[1]
Mary Chappell Site
1061 NC Highway 177 North
Hamlet, Richmond County, North Carolina
S&ME Project No. 1054-10-2003

Analytical Method			VOC[5] by EPA Method 8260B						VOC TICs[6] by Method 8260B															
	Contaminant of Concern																							
Sample ID	Date Collected (m/dd/yy)	Sample Depth (ft-bgs[2])	Chloromethane	4-Isopropyltoluene	Naphthalene	1,1,2,2,-Tetrachloroethane	1,1,2,-Trichloroethane	Trichloroethylene	L-Penchone	Benzoic acid, 4-methyl-2-tr	Bicyclo[2,2,1]heptan-2-ol	Bicyclo[2,2,1]heptan-2-one,	Camphene	Camphor	Carbon Dioxide	Cyclohexene, 1-methyl-4(1-	Cyclohexene, 1-methyl-4(1-	Cyclopentasiloxane, decamet	Cyclotetrasiloxane, octamet	7H-Dibenzo[b,g]carbazole,7	1,3,6-Heptatriene, 2,5,5,-tr	D-Limonene	L-Limonene	alpha-Pinene
GP-1	9/9/2010	17-21	<0.00016	<0.00017	<0.00026	<0.00021	<0.00025	<0.00029	NR	NR	NR	NR	NR	NR	0.11J	NR	NR	0.0049JB	0.010JB	NR	NR	NR	NR	NR
GP-2	9/9/2010	17-21	<0.00017	<0.00018	<0.00027	<0.00022	<0.00025	<0.00030	NR	NR	NR	NR	NR	NR	0.086J	NR	NR	0.0060JB	0.015J	NR	NR	NR	NR	NR
GP-3	9/9/2010	13-17	<0.00014	<0.00015	<0.00023	<0.00019	<0.00022	<0.00026	NR	NR	NR	NR	NR	NR	0.130	NR	NR	0.0055JB	0.012J	NR	NR	NR	NR	NR
GP-4	9/8/2010	29-33	<0.00016	<0.00018	<0.00026	<0.00022	<0.00025	<0.00030	NR	0.012J	NR	NR	NR	NR	0.16J	NR	NR	0.0051JB	NR	NR	NR	NR	NR	NR
GP-5	9/7/2010	0-5	<0.00016	0.00087J	<0.00025	<0.00021	<0.00024	<0.00028	0.0042J	NR	0.0076J	0.0073J	0.014J	NR	0.19J	0.010J	0.011J	NR	NR	NR	NR	0.019J	NR	0.088J
GP-6	9/8/2010	5-9	<0.00016	<0.00017	<0.00026	<0.00022	<0.00025	<0.00029	NR	NR	NR	NR	NR	NR	0.21J	NR	NR	0.0057JB	NR	0.012J	NR	NR	NR	NR
GP-7	9/8/2010	25-29	<0.00017	<0.00018	<0.00027	<0.00023	<0.00026	<0.00031	NR	NR	NR	NR	NR	NR	0.11J	NR	NR	0.0053JB	0.013J	NR	NR	NR	NR	NR
Dup (GP-1)	9/8/2010	17-21	<0.00016	<0.00017	<0.00026	<0.00021	<0.00025	<0.00029	NR	NR	NR	NR	NR	NR	0.26J	NR	NR	0.0077JB	0.025J	NR	NR	NR	NR	NR
Equipment Blank	09/09/10	-	<0.00034	<0.00026	<0.00039	<0.00033	<0.00037	<0.00038	NR	NR	NR	NR	NR	NR	0.110J	NR	NR	NR	NR	NR	NR	NR	NR	NR
IHSB Soil Remediation Goal Preliminary HB PSRG[3]			24	NL	3.60	0.56	1.1	2.80	NL	49,000	NL	NL	NL	NL	NL	NL	120	NL	NL	NL	NL	NL	NL	NL
IHSB Soil Remediation Goal PG PSRG[4]			0.02	NL	0.21	0.0012	NL	0.02	NL	130	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL

Notes:
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 Health-Based Prelimimary Soil Remediation Goals. January 2010.
5. VOCs = Volatile Organic Compounds.
6. TICs = Tentatively Identified Compounds.
7. NR - not reported
8. J = concentration detected above the method detection limit but below the sample method reporting limit.
9. B = The analyte was detectred in the associated method blank.
10. < = denotes less than sample detection limit.
11. NL = No Standard Listed.

Bold depicts constiuents detected above the sample method detection limit.
Bold and shaded depicts constiuents detected above the IHSB PSRGs.

Table 4
Summary of SVOC Concentrations in Soil (mg/Kg)[1]
Mary Chappell Site
1061 NC Highway 177 North
Hamlet, Richmond County, North Carolina
S&ME Project No. 1054-10-2003

Analytical Method			SVOCs[5] 8270D	SVOC TICs[6] by EPA Method 8270D				
	Contaminant of Concern							
Sample ID	Date Collected (m/dd/yy)	Sample Depth (ft-bgs[2])	Di-n-butylphthalate	Cyclohexanemethanol, 4-hydroxy	1R-alpha-Pinene	1,1,2,2,-Tetrachloroethane	1,1,2,-Trichloroethane	7-Oxabicyclo[4,1,0]heptane
GP-1	9/9/2010	17-21	0.041J	NR	NR	**0.28JB**	<0.027	NR
GP-2	9/9/2010	17-21	<0.034	NR	NR	**0.25JB**	<0.028	NR
GP-3	9/9/2010	13-17	<0.038	NR	NR	**0.43JB**	0.18J	0.21J
GP-4	9/8/2010	29-33	<0.034	NR	NR	**0.45JB**	0.19J	0.21J
GP-5	9/7/2010	0-5	<0.032	0.14J	0.27J	**0.39JB**	0.16J	NR
GP-6	9/8/2010	5-9	<0.034	NR	NR	**0.27JB**	NR	NR
GP-7	9/8/2010	25-29	<0.035	NR	NR	**0.28JB**	NR	NR
Dup (GP-1)	9/8/2010	17-21	<0.033	NR	NR	**0.41JB**	0.18J	0.20J
Equipment Blank	09/09/10	-	<0.0015	NR	NR	NR	NR	NR
IHSB Soil Remediation Goal Preliminary HB PSRG[3]			1,200	NL	NL	0.56	1.1	NL
IHSB Soil Remediation Goal PG PSRG[4]			19	NL	NL	0.0012	NL	NL

Notes:
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 Health-Based Prelimimary Soil Remediation Goals. January 2010.
5. SVOCs by EPA Method 8270D.
6. TICs = Tentatively Identified Compounds.
7. NR - not reported
8. J = concentration detected above the method detection limit but below the sample method reporting limit.
9. B = The analyte was detectred in the associated method blank.
10. < = denotes less than sample detection limit.
11. NL = No Standard Listed.

Bold depicts constiuents detected above the sample method detection limit.
Bold and shaded depicts constiuents detected above the IHSB PSRGs..

Table 5

Summary of Metal Concentrations in Soil (mg/Kg)[1]
Mary Chappell Site
1061 NC Highway 177 North
Hamlet, RichmondCounty, North Carolina
S&ME Project No. 1054-10-2003

Analytical Method			Metals by EPA Method 6010											
	Contaminant of Concern													
Sample ID	Date Collected (m/dd/yy)	Sample Depth (ft-bgs[2])	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Thallium	Zinc
GP-1	9/9/2010	17-21	**0.528J**	<0.0129	<0.0103	**0.925**	**0.454J**	**0.473J**	**0.324J**	<0.00515	<0.386	**0.207JB**	**0.165J**	<1.18
GP-2	9/9/2010	17-21	**10.7**	**0.0210J**	<0.0106	**29.2**	**49.2**	**3.17**	**2.61**	<0.00530	<0.398	**23.6B**	**0.64**	**3.32**
GP-3	9/9/2010	13-17	**4.04**	<0.0147	<0.0117	**7.44**	**5.78**	**1.50**	**3.38**	**0.0242**	<0.440	**1.12B**	**0.541J**	**2.11J**
GP-4	9/8/2010	29-33	**1.22**	<0.0132	<0.0105	**1.34**	**3.10**	**0.846**	**0.291J**	**0.00765J**	<0.395	**0.942J**	**0.160J**	<1.21
GP-5	9/7/2010	0-5	**0.739**	<0.0124	<0.00993	**2.16**	**0.97**	**2.08**	**7.53**	<0.00496	**0.691J**	**0.144JB**	**0.379J**	**1.62J**
GP-6	9/8/2010	5-9	**0.728**	<0.0130	<0.0104	**2.48**	**1.18**	**1.19**	**3.51**	<0.00521	**0.446J**	**0.347JB**	**0.148J**	**1.42J**
GP-7	9/8/2010	25-29	**1.56**	<0.0136	<0.0109	**1.93**	**4.58**	**0.92**	**0.331J**	<0.00544	<0.408	**0.904B**	**0.235J**	<0.408
Dup (GP-1)	9/8/2010	17-21	**0.418J**	<0.0129	<0.0103	**0.939**	**0.598**	**0.438J**	**0.312J**	<0.00515	<0.386	**0.309JB**	**0.132J**	**1.38J**
Equipment Blank	09/09/10	-	<0.0028	<0.0001	<0.00036	<0.0001	<0.0016	<0.0019	**4.07JB**	<0.00017	<0.0018	**4.64J**	<0.00011	<0.0038
IHSB Soil Remediation Goal Preliminary HB PSRG[3]			4.40	31	14	23,000	630	400	370	4.7	310	78	NL	4,700
IHSB Soil Remediation Goal PG PSRG[4]			5.80	NL	3	360,000	700	270	65	1.0	130	2.1	NL	1,200

Notes:

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 Health-Based Prelimimary Soil Remediation Goals. January 2010
5. J = concentration detected above the method detection limit but below the sample method reporting limit.
6. B = The analyte was detectred in the associated method blank.
7. <= denotes less than sample detection limit.
8. NL = No Standard Listed.

Bold depicts constiuents detected above the sample method detection limit.

Bold and shaded depicts constiuents detected above the IHSB PSRGs.

Table 6
Monitor Well Construction
Mary Chappell Site
1061 NC Highway 177 North
Hamlet, Richmond County, North Carolina
S&ME Project No. 1054-10-2003

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)	Free Product Thickness ** (ft.)	Groundwater Elevation** (ft)	Comments
GP-1	09/09/10	09/20/10	38.50	38.50	to	48.50	48.50	422.48	44.91	0.00	377.57	Type II - 1" Sch. 40 PVC casing w/ 0.010 slot screen.
GP-2	09/09/10	09/20/10	35.65	35.65	to	45.65	45.65	422.38	44.56	0.00	377.82	Type II - 1" Sch. 40 PVC casing w/ 0.010 slot screen.
GP-3	09/09/10	09/20/10	34.72	34.72	to	44.72	44.72	420.82	42.37	0.00	378.45	Type II - 1" Sch. 40 PVC casing w/ 0.010 slot screen.
GP-4	09/09/10	09/20/10	29.80	29.80	to	39.80	39.80	415.45	37.45	0.00	378.00	Type II - 1" Sch. 40 PVC casing w/ 0.010 slot screen.
GP-5	09/08/10	09/20/10	70.60	70.60	to	75.60	75.60	Abandoned	NM	NC	NC	Abandoned
GP-6	09/08/10	09/20/10	38.50	38.50	to	48.50	48.50	417.78	46.68	0.00	371.10	Type II - 1" Sch. 40 PVC casing w/ 0.010 slot screen.
GP-7	09/08/10	09/20/10	29.90	29.90	to	39.90	39.90	416.57	37.90	0.00	378.67	Type II - 1" Sch. 40 PVC casing w/ 0.010 slot screen.

Notes:
** If Free Product is present in a well, groundwater elevation is calculated by: [Top of Casing Elevation - Depth to Water] + [free product thickness x 0.8581].
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 7
Groundwater Elevations September 20, 2010
Mary Chappell Site
1061 NC Highway 177 North
Hamlet, Richmond County, North Carolina
S&ME Project No. 1054-10-2003

Well ID	Date Measured	Top of Casing Elevation (ft.)	Depth to Water from Top of Casing (ft.)	Groundwater Elevation* (ft.)
GP-1	9/20/2010	422.48	44.91	377.57
GP-2	9/20/2010	422.38	44.56	377.82
GP-3	9/20/2010	420.82	42.37	378.45
GP-4	9/20/2010	415.45	37.45	378.00
GP-5	9/20/2010	Abandoned	NM	NC
GP-6	9/20/2010	417.78	46.68	371.10
GP-7	9/20/2010	416.57	37.90	378.67

Notes:

NM = Not measured.

NC = Not calculated.

Elevations from a site survey by Bateman Civil Survey Company dated September 20, 2010.

Table 8
Field Parameters
Mary Chappell Site
1061 NC Highway 177 North
Hamlet, Richmond County, North Carolina
S&ME Project No. 1054-10-2003

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]
GP-1	5.87	0.057	20.38	5.66	78.2	1339
GP-2	5.09	0.128	21.45	9.67	228	686
GP-3	4.11	0.154	21.95	3.61	110	Error 4[7]
GP-4	5.63	0.115	23.84	5.80	79.8	Error 4
GP-6	5.14	0.020	21.67	7.00	164	1236
GP-7	6.26	0.042	20.32	7.06	63.1	1183

1. pH - Standard units
2. mC/cm^2 - milliseimens per square centimeter
3. °C - degrees Centigrade
4. mg/L - milligram per liter
5. mV - millivolt
6. NTUs - nephrotelemetric units
7. Error 4 - unit did not read correctly/equipment malfunction or the turbidity exceeded the limits of the instrument.

Table 9
Groundwater Sample Analyses
Mary Chappell Site
1061 NC Highway 177 North
Hamlet, Richmond County, North Carolina
S&ME Project No. 1054-10-2003

Analytical Method		EPA Method 8260B				
Contaminant of Concern						
Well ID	Date Collected (m/dd/yy)	Acetone	2-Butanone	Chloroform	Chloromethane	Trichloroethylene
GP-1	9/20/2010	<1.5	<1.0	**0.49J**	<0.34	<0.38
GP-2	9/20/2010	<1.5	<1.0	**0.92J**	<0.34	<0.38
GP-3	9/20/2010	**19**	**2.8J**	<0.20	<0.34	<0.38
GP-4	9/20/2010	**71**	<1.0	<0.20	<0.34	<0.38
GP-6	9/20/2010	**3.5J**	<1.0	<0.20	<0.34	<0.38
GP-7	9/20/2010	**3.3J**	<1.0	<0.20	<0.34	<0.38
Duplicate (GP-2)	9/20/2010	**5.7**	<1.0	**0.86J**	<0.34	<0.38
Equipment Blank	9/20/2010	<1.5	<1.0	<0.20	**0.56J**	<0.38
Trip Blank	9/20/2010	<1.5	<1.0	<0.20	<0.34	<0.38
NCAC 2L Groundwater Standard (ug/l)		6,000	4,000	70	3	3
USEPA Drinking Water MCL		NL	NL	70	NL	5
IHSB Vapor Intrusion Screening Level		18,000,000	1,900,000	35	220	150

Notes:
All sample analytical concentrations are reported in micrograms per liter (µg/l).
Bold depicts constiuents detected above the sample method detection limit.
NCAC 2L Standard = 15A NCAC 2L Groundwater Standard (µg/l).
USEPA Drinking Water MCL = National Primary (or Secondary*) Drinking Water Maximum Contamination Level (µg/l).
NL = Not Listed.
SHADED AND BOLD numbers indicate concentrations above NCAC 2L Groundwater Quality Standard.

Table 10
Water Supply Well Sample Analyses
Mary Chappell Site
1061 NC Highway 177 North
Hamlet, Richmond County, North Carolina
S&ME Project No. 1054-10-2003

Analytical Method		VOCs by EPA 8260B						SVOC by EPA 8270D	Metals by EPA 6010C										
Contaminant of Concern																			
Well ID	Date Collected (m/dd/yy)	Acetone	2-Butanone	Chloroform	Chloromethane	Trichloroethylene	Naphthalene	Bis(2-ethylhexyl)phthalate	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Manganese	Thallium	Selenium	Silver	Zinc
Mary L. Chappell WSW-1	9/8/2010	<1.5	<1.0	<0.20	**0.66J**	**34**	**2.8**	<1.7	<2.8	**0.276J**	**0.37J**	**1.86JB**	**108**	**67.7**	**4.30**	**0.612JB**	<2.70	<1.90	**32.0**
Mark Chappell WSW-2	9/8/2010	<1.5	<1.0	<0.20	<0.34	<0.38	<0.39	<1.7	<2.8	<0.1	<0.360	<1.0	**99.4**	**8.28J**	**4.69J**	**0.48JB**	<2.70	<1.90	**26.3**
William Brown WSW-5	9/8/2010	<1.5	<1.0	<0.20	<0.34	**1.2**	<0.39	<1.7	**3.43J**	<0.1	<0.360	<1.0	**14.3**	<1.90	<1.10	**0.402JB**	<2.70	<1.90	**5.37J**
Herman Russell WSW-4	9/8/2010	<1.5	<1.0	<0.20	<0.34	<0.38	<0.39	**1.8J**	<2.80	<0.10	<0.360	<1.00	**15**	<1.90	<1.10	**0.918JB**	**3.91J**	**1.91J**	**8.40J**
NCAC 2L Groundwater Standard (ug/l)		6,000	4,000	70	3	3	6	3	10	NL	2	10	1,000	15	50	NL	20	20	1,000
USEPA Drinking Water MCL		NL	NL	70	NL	5	NL	6	10	4	5	100	1,300	15	50*	2	50	10*	5,000*
IHSB Vapor Intrusion Screening Level		18,000,000	1,900,000	35	220	150	140	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL

Notes:
All sample analytical concentrations are reported in micrograms per liter (µg/l).
Bold depicts constiuents detected above the sample method detection limit.
NCAC 2L Standard = 15A NCAC 2L Groundwater Standard (µg/l).
USEPA Drinking Water MCL = National Primary (or Secondary*) Drinking Water Maximum Contamination Level (µg/l).
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	SVOC Constituents in Soil – September 2010
Figure 5	Metals in Soil – September 2010
Figure 6	Groundwater Contour Map – September 20, 2010
Figure 7	Shallow Groundwater Constituents – September 20, 2010
Figure 8	Water Supply Well Groundwater Constituents – September 8, 2010
Figure 9	Historical Water Supply Well Groundwater Constituents

Appendices

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

Appendix I

Photographic Log

Appendix II

Boring Logs and Well Construction Records and Field Notes

COMPLETION REPORT OF PEIZOMETER NO. GP-1

PROJECT:	Mary Chappell Site	APPROXIMATE ELEVATION:	422.5
PROJECT NO:	1054-10-2003	BORING DEPTH (FT.):	48.5
PROJECT LOCATION:	Hamlet, North Carolina	LOGGED BY:	JP
DRILLING CONTRACTOR:	S&ME		
DRILLING METHOD:	Macrocore		
DATE DRILLED:	9/9/2010		

STRATA DESCRIPTION	SYMBOL	DEPTH (feet)	WELL DETAILS	DEPTH (feet)	LEGEND	SPT (N-value)	ELEVATION (feet)	FID (ppm)	PID (ppm)
Ground Surface							422.50		
Tan/ brown medium SAND		0.0		0.2			417.50		0.0
		5.0					412.50		0.0
		10.0							0.6
Medium large grain orange clayey SAND							407.50		
Orange/ tan fine clayey SAND									0.8
Tan/ white fine SAND		15.0							
Tan/ white/ pink med grain SAND (moist), band of oxidized SAND @ 24' bgs							402.50		1.0
		20.0					397.50		0.6
Large clayey SAND, white to 28', then tan to orange silty clayey SAND		25.0					392.50		0.6
Tan/ white fine silty SAND (moist), alternating colors		30.0					387.50		0.4
		35.0		36	CG				0.2
Tan/ white to 38' then tan/ brown large sand, band of white silty CLAY @40' bgs				38.5	BS		382.50		0.6
		40.0					377.50		
		45.0							
				48.5	FP				
Boring terminated at refusal at 49'				49	BSC				

WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type:
Interval:

OUTER CASING
Diameter:
Type:
Length:

RISER CASING
Diameter:
Type:
Interval:

GROUT
Type: **cement**
Interval: **0- 36**

SEAL
Type: **bentonite pre-packed**
Interval: **36 - 38.5**

FILTERPACK
Type: **silica pre-packaged**
Interval: **38.5 - 48.5**

SCREEN
Diameter: **1"**
Type: **pvc pre-packed**
Interval: **38.5 - 48.5**

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 PEIZOMETER NO. GP-1

COMPLETION REPORT OF PEIZOMETER NO. GP-2

PROJECT:	Mary Chappell Site	APPROXIMATE ELEVATION:	422.4
PROJECT NO:	1054-10-2003	BORING DEPTH (FT.):	45.7
PROJECT LOCATION:	Hamlet, North Carolina	LOGGED BY:	JP
DRILLING CONTRACTOR:	S&ME		
DRILLING METHOD:	Macrocore		
DATE DRILLED:	9/9/2010		

STRATA DESCRIPTION	SYMBOL	DEPTH (feet)	WELL DETAILS	DEPTH (feet)	LEGEND	SPT (N-value)	ELEVATION (feet)	FID (ppm)	PID (ppm)
Ground Surface							422.40		
Tan medium SAND		0.0		0.2			417.40		0.1
		5.0					412.40		0.0
Tan/ orange clayey SAND (med grain)		10.0					407.40		0.0
		15.0					402.40		0.0
Tan/ orange/ brown hard silty CLAY to 19.5', then fine tan silty SAND		20.0					397.40		0.6
Tan/ orange silty SAND		25.0					392.40		0.0
Tan/ white large grain silty SAND (moist), to 30', then fine tan silty SAND, tight tan/white silty CLAY @32.5'		30.0					387.40		0.1
Medium tan/ light brown silty SAND (moist), 1" thick band of white silty CLAY @ 38' and 40'		35.0		33.2 35.7	CG BS		382.40		0.0
Tan/ brown silty SAND (wet), wet bands		40.0					377.40		0.4
Boring terminated at 46' bgs - refusal, well set at 45.65' in CLAY		45.0		45.7 46	BSC FP				

WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
- Diameter:
- Type:
- Interval:

OUTER CASING
- Diameter:
- Type:
- Length:

RISER CASING
- Diameter:
- Type:
- Interval:

GROUT
- Type: **cement**
- Interval: **0 - 33.15**

SEAL
- Type: **bentonite pre-packed**
- Interval: **33.2 - 35.7**

FILTERPACK
- Type: **silica pre-packaged**
- Interval: **35.7 - 45.7**

SCREEN
- Diameter: **1"**
- Type: **pvc pre-packed**
- Interval: **35.7 - 45.7**

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 PEIZOMETER NO. GP-2

COMPLETION REPORT OF PEIZOMETER NO. GP-3

PROJECT:	Mary Chappell Site	APPROXIMATE ELEVATION:	420.8
PROJECT NO:	1054-10-2003	BORING DEPTH (FT.):	44.7
PROJECT LOCATION:	Hamlet, North Carolina	LOGGED BY:	JP
DRILLING CONTRACTOR:	S&ME		
DRILLING METHOD:	Macrocore		
DATE DRILLED:	9/9/2010		

STRATA DESCRIPTION	SYMBOL	DEPTH (feet)	WELL DETAILS	DEPTH (feet)	LEGEND	SPT (N-value)	ELEVATION (feet)	FID (ppm)	PID (ppm)
Ground Surface							420.80		
Tan fine/medium SAND		0.0		0.2					0.2
		5.0					415.80		1.3
Red/ tan clayey SAND, med/ lg to 14', then tan/ grey silty CLAY to 16', then tan fine SAND to 17'		10.0					410.80		74.6
		15.0					405.80		360
Fine to med tan SAND, slightly clayey (moist)		20.0					400.80		1.6
Medium tan clayey SAND (moist)									0.2
Tan to light brown large SAND (moist)		25.0					395.80		0.1
Fine tan/ brown silty SAND (moist), with bands of silty CLAY @39' & 40'		30.0		32.7	CG		390.80		0.3
		35.0		34.7	BS		385.80		0.2
		40.0					380.80		0.1
Fine tan silty SAND									
Grey very stiff silty CLAY				44.7	FP				
Boring terminated at 45' bgs, well set at 44.7' bgs				45	BSC				

WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type:
Interval:

OUTER CASING
Diameter:
Type:
Length:

RISER CASING
Diameter:
Type:
Interval:

GROUT
Type: **cement**
Interval: **0 - 32.7**

SEAL
Type: **bentonite pre-packed**
Interval: **32.2 - 34.7**

FILTERPACK
Type: **silica pre-packaged**
Interval: **34.7 - 44.7**

SCREEN
Diameter: **1"**
Type: **pvc pre-packed**
Interval: **34.7 - 44.7**

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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COMPLETION REPORT
OF PEIZOMETER NO. GP-3

COMPLETION REPORT OF PEIZOMETER NO. GP-4

PROJECT:	Mary Chappell Site	APPROXIMATE ELEVATION:	415.5
PROJECT NO:	1054-10-2003	BORING DEPTH (FT.):	39.8
PROJECT LOCATION:	Hamlet, North Carolina	LOGGED BY:	JP
DRILLING CONTRACTOR:	S&ME		
DRILLING METHOD:	Macrocore		
DATE DRILLED:	9/9/2010		

STRATA DESCRIPTION	SYMBOL	DEPTH (feet)	WELL DETAILS	DEPTH (feet)	LEGEND	SPT (N-value)	ELEVATION (feet)	FID (ppm)	PID (ppm)
Ground Surface							415.50		
Brown medium SAND, 6" TOPSOIL		0.0		0.2			410.50		0.0
Orange/ tan clayey SAND, med		5.0					405.50		0.0
		10.0					400.50		0.0
Orange/ tan fine SAND		15.0					395.50		0.0
Light tan/ white medium SAND (moist)		20.0					390.50		0.1
Med/ lg grain brown/ tan SAND, 2" layer of white clayey SILT@ 23.5' (dry)		25.0					385.50		0.0
White clayey SILT				27.3	CG				0.0
Tan/ white fine to medium SAND (moist), @31.5' water bearing zone (wet)		30.0		29.8	BS		380.50		0.4
Tan/ pink fine SAND (moist) large grain @ 34', dark oxidized layer of brown SAND		35.0							0.0
Tan to light brown medium clayey SAND (moist)									0.0
Very hard white silty CLAY, confining layer, refusal				39.8	FP				
Boring terminated at 40', well set @ 39.8' bgs				39.9	BSC				
				40					

WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
- Diameter:
- Type:
- Interval:

OUTER CASING
- Diameter:
- Type:
- Length:

RISER CASING
- Diameter:
- Type:
- Interval:

GROUT
- Type: **cement**
- Interval: **0 - 27.3**

SEAL
- Type: **bentonite pre-packed**
- Interval: **27.3 - 29.8**

FILTERPACK
- Type: **silica pre-packaged**
- Interval: **29.8 - 39.8**

SCREEN
- Diameter: **1"**
- Type: **pvc pre-packed**
- Interval: **29.8 - 39.8**

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

NOTES:

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COMPLETION REPORT
OF PEIZOMETER NO. GP-4

COMPLETION REPORT OF PEIZOMETER NO. GP-5

PROJECT:	Mary Chappell Site	APPROXIMATE ELEVATION:	
PROJECT NO:	1054-10-2003	BORING DEPTH (FT.):	46
PROJECT LOCATION:	Hamlet, North Carolina	LOGGED BY:	JP
DRILLING CONTRACTOR:	S&ME		
DRILLING METHOD:	Macrocore		
DATE DRILLED:	9/7/2010		

STRATA DESCRIPTION	SYMBOL	DEPTH (feet)	WELL DETAILS	DEPTH (feet)	LEGEND	SPT (N-value)	ELEVATION (feet)	FID (ppm)	PID (ppm)
Ground Surface		0.0							
Light tan SAND									
Light to dark brown clayey SAND		5.0							
Orange brown clayey SAND									
Medium gray SAND									
Tan orange clayey SAND, very dense		10.0							
Tan orange with brown mixed SAND with clayey SAND									
Gray red clayey medium SAND, very dense		15.0							
Tan coarse SAND with quartz and orange clayey SAND									
Light tan fine SAND		20.0							
White to brown clayey SAND with oxidized zone at 23.5'		25.0							
Tan quartz fine SAND									
Brown clayey SAND		30.0							
Pink sity fine SAND		35.0							
Tan gray with pink sity fine SAND									
White silty fine SAND									
Tan medium to fine SAND		40.0							
White medium to fine silty SAND		45.0		46					
Boring terminated at 46 feet below the ground surface.									

WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type:
Interval:

OUTER CASING
Diameter:
Type:
Length:

RISER CASING
Diameter:
Type:
Interval:

GROUT
Type:
Interval:

SEAL
Type: **bentonite**
Interval: **0-46**

FILTERPACK
Type:
Interval:

SCREEN
Diameter:
Type:
Interval:

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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COMPLETION REPORT
OF PEIZOMETER NO. GP-5

COMPLETION REPORT OF PEIZOMETER NO. GP-6

PROJECT:	Mary Chappell Site	APPROXIMATE ELEVATION:	417.8
PROJECT NO:	1054-10-2003	BORING DEPTH (FT.):	48.5
PROJECT LOCATION:	Hamlet, North Carolina	LOGGED BY:	JP
DRILLING CONTRACTOR:	S&ME		
DRILLING METHOD:	Macrocore		
DATE DRILLED:	9/8/2010		

STRATA DESCRIPTION	SYMBOL	DEPTH (feet)	WELL DETAILS	DEPTH (feet)	LEGEND	SPT (N-value)	ELEVATION (feet)	FID (ppm)	PID (ppm)
Ground Surface							417.80		
Topsoil 4", light brown/ tan fine/ medium SAND		0.0		0.2			412.80		0.8
Light brown clayey SAND, tan/ orange at 9', medium grain		5.0					407.80		1.2
		10.0					402.80		0.7
Tan/ grey/ white clayey SILT (very hard)		15.0							0.8
Tan/ orange clayey medium SAND									
Tan/ orange medium silty SAND (damp)							397.80		0.7
		20.0					392.80		0.2
		25.0					387.80		0.8
Tan medium silty SAND, 31-32' silty fine SAND tan/ light brown w/ pink		30.0							0.8
Light tan/ brown silty fine SAND							382.80		0.6
Brown/ tan well graded silty SAND w/ medium white silty SAND		35.0		36	CG				
Pink to tan medium to large grain SAND		40.0		38.5	BS		377.80		0.7
Red/ tan fine silty SAND, (wet) saturated		45.0					372.80		
				48.5	FP				
Boring terminated at 49' bgs, well				49	BSC				

WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type:
Interval:

OUTER CASING
Diameter:
Type:
Length:

RISER CASING
Diameter:
Type:
Interval:

GROUT
Type: **cement**
Interval: **0 - 36**

SEAL
Type: **bentonite pre-packed**
Interval: **36 - 38.5**

FILTERPACK
Type: **silica pre-packaged**
Interval: **38.5 - 48.5**

SCREEN
Diameter: **1"**
Type: **pvc pre-packed**
Interval: **38.5 - 48.5**

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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COMPLETION REPORT
OF PEIZOMETER NO. GP-6

COMPLETION REPORT OF PEIZOMETER NO. GP-7

PROJECT:	Mary Chappell Site	APPROXIMATE ELEVATION:	416.6
PROJECT NO:	1054-10-2003	BORING DEPTH (FT.):	39.9
PROJECT LOCATION:	Hamlet, North Carolina	LOGGED BY:	JP
DRILLING CONTRACTOR:	S&ME		
DRILLING METHOD:	Macrocore		
DATE DRILLED:	9/8/2010		

STRATA DESCRIPTION	SYMBOL	DEPTH (feet)	WELL DETAILS	DEPTH (feet)	LEGEND	SPT (N-value)	ELEVATION (feet)	FID (ppm)	PID (ppm)
Ground Surface							416.60		
Tan/ brown medium SAND		0.0		0.2			411.60		0.0
Tan/ orange medium clayey SAND, very firm		5.0					406.60		0.0
		10.0					401.60		0.0
Tan SAND medium (moist), tan/ white fluffy @ 18' bgs		15.0					396.60		0.2
		20.0					391.60		0.1
White arge grain clayey SAND to yellow/ tan		25.0					386.60		0.0
Tan clayey SAND, medium- large grain to 27' then fine silty SAND				27.4	CG				0.8
Fine tan silty SAND - dark layer w/quartz @ 31'		30.0		29.9	BS		381.60		0.0
Tan clayey SAND to 33' then dark brown clayey SAND w/ quartz to 35', then tan fine SAND		35.0							0.0
Medium to fine white/ tan CLAY, wet									0.0
Red to red/ grey very tight silty CLAY, red to purple marble clay @40', wet				39.9	FP				
Boring terminated at 41' bgs, well set @ 39.90' bgs				41	BSC				

WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type:
Interval:

OUTER CASING
Diameter:
Type:
Length:

RISER CASING
Diameter:
Type:
Interval:

GROUT
Type: **cement**
Interval: **0 - 27.4**

SEAL
Type: **bentonite pre-packed**
Interval: **27.4 - 29.9**

FILTERPACK
Type: **silica pre-packaged**
Interval: **29.9 - 39.9**

SCREEN
Diameter: **1"**
Type: **pvc pre-packed**
Interval: **29.9 - 39.9**

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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Raleigh, NC 27616

COMPLETION REPORT
OF PEIZOMETER NO. GP-7

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# WM0600824

OTHER ASSOCIATED PERMIT#(if applicable) _____

SITE WELL ID #(if applicable) GP-1

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

DATE DRILLED 9/9/2010

4. WELL LOCATION:

1061 Highway 177 North - 28345
(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 ° 55 ' 50.7100 " DMS OR 3x.xxxxxxxxx DD

LONGITUDE 79 ° 38 ' 18.3100 " 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.)

Mary Chappell Site NONCD000286
Facility Name Facility ID# (if applicable)

1061 Highway 177 North
Street Address

Hamlet NC 28345
City or Town State Zip Code

Mr. Sean Boyles (NCDENR-Project Mgr.)
Contact Name

225 Green Street, Suite 714
Mailing Address

Fayetteville NC 28301
City or Town State Zip Code

(910) 433-3345
Area code Phone number

6. WELL DETAILS:

a. TOTAL DEPTH: 48.5

b. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☑

c. WATER LEVEL Below Top of Casing: 44.91 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 38.5	Ft.	1"	sch 40	PVC
Top	Bottom	Ft.			
Top	Bottom	Ft.			

8. GROUT:	Depth		Material	Method
Top 36.0	Bottom 38.5	Ft.	Bentonite	pre-packed
Top -0.4	Bottom 36.0	Ft.	Cement	Tremie
Top	Bottom	Ft.		

9. SCREEN:	Depth		Diameter	Slot Size	Material
Top 38.5	Bottom 48.5	Ft.	1 in.	.010 in.	PVC
Top	Bottom	Ft.	in.	in.	pre-packed
Top	Bottom	Ft.	in.	in.	

10. SAND/GRAVEL PACK:	Depth		Size	Material
Top 38.5	Bottom 48.5	Ft.	#2	Silica pre-packed
Top	Bottom	Ft.		
Top	Bottom	Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0	11.0	Tan/brown medium sand
11.0	15.0	Orange clayey sand
15.0	17.0	Tan/White fine sand
17.0	25.0	Tan/white medium sand
25.0	29.0	White large clayey sand
29.0	33.0	Tan/white fine silty sa
33.0	49.0	Tan/lt brown large grain sand
49.0	-	hit refusal on silty white clay

12. REMARKS:

~~Pre-packaged well screens and bentonite seal~~

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] 10/20/10
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

Thomas 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 # 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# WM0600824

OTHER ASSOCIATED PERMIT#(if applicable)

SITE WELL ID #(if applicable) GP-2

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

DATE DRILLED 9/9/2010

4. WELL LOCATION:

1061 Highway 177 North - 28345
(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 ° 55 ' 50.3100 " DMS OR 3x.xxxxxxxxx DD

LONGITUDE 79 ° 38 ' 18.2200 " 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.)

Mary Chappell Site NONCD000286
Facility Name Facility ID# (if applicable)

1061 Highway 177 North
Street Address

Hamlet NC 28345
City or Town State Zip Code

Mr. Sean Boyles (NCDENR-Project Mgr.)
Contact Name

225 Green Street, Suite 714
Mailing Address

Fayetteville NC 28301
City or Town State Zip Code

(910) 433-3345
Area code Phone number

6. WELL DETAILS:

a. TOTAL DEPTH: 45.65

b. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☑

c. WATER LEVEL Below Top of Casing: 44.56 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 35.65 Ft.	1"	sch 40	PVC
Top	Bottom Ft.			
Top	Bottom Ft.			

8. GROUT:

Depth		Material	Method
Top 33.15	Bottom 35.65 Ft.	Bentonite	pre-packed
Top -0.4	Bottom 33.15 Ft.	Cement	Tremie
Top	Bottom Ft.		

9. SCREEN:

Depth		Diameter	Slot Size	Material
Top 35.65	Bottom 45.65 Ft.	1 in.	.010 in.	PVC
Top	Bottom Ft.	in.	in.	pre-packed
Top	Bottom Ft.	in.	in.	

10. SAND/GRAVEL PACK:

Depth		Size	Material
Top 35.65	Bottom 45.65 Ft.	#2	Silica pre-packed
Top	Bottom Ft.		
Top	Bottom Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0	9.0	Tan medium sand
9.0	17.0	Tan/orange clayey sand
17.0	21.0	Tan/orange silty fine sand
21.0	25.0	Tan/orange silty sand
25.0	30.0	Tan/white large silty sand
30.0	33.0	fine tan silty sand
33.0	41.0	Tan/lt brown silty sand
41.0	46.0	Tan/brown silty sand
46.0	-	hit refusal on hard white silty clay

12. REMARKS:

~~Pre-packaged well screens and bentonite seal~~

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.

Thomas Whitehead 10/20/10
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

Thomas 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 # 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# WM0600824

OTHER ASSOCIATED PERMIT#(if applicable)

SITE WELL ID #(if applicable) GP-3

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

DATE DRILLED 9/9/2010

4. WELL LOCATION:

1061 Highway 177 North - 28345
(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 ° 55 ' 50.1800 " DMS OR 3x.xxxxxxxxx DD

LONGITUDE 79 ° 38 ' 19.5100 " 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.)

Mary Chappell Site NONCD000286
Facility Name Facility ID# (if applicable)

1061 Highway 177 North
Street Address

Hamlet NC 28345
City or Town State Zip Code

Mr. Sean Boyles (NCDENR-Project Mgr.)
Contact Name

225 Green Street, Suite 714
Mailing Address

Fayetteville NC 28301
City or Town State Zip Code

(910) 433-3345
Area code Phone number

6. WELL DETAILS:

a. **TOTAL DEPTH:** 44.72

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☑

c. **WATER LEVEL** Below Top of Casing: 42.37 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 34.72 Ft.	1"	sch 40	PVC
Top	Bottom Ft.			
Top	Bottom Ft.			

8. GROUT:

Depth		Material	Method
Top 32.22	Bottom 34.72 Ft.	Bentonite	pre-packed
Top -0.4	Bottom 32.72 Ft.	Cement	Tremie
Top	Bottom Ft.		

9. SCREEN:

Depth		Diameter	Slot Size	Material
Top 34.72	Bottom 44.72 Ft.	1 in.	.010 in.	PVC
Top	Bottom Ft.	in.	in.	pre-packed
Top	Bottom Ft.	in.	in.	

10. SAND/GRAVEL PACK:

Depth		Size	Material
Top 34.72	Bottom 44.72 Ft.	#2	Silica pre-packed
Top	Bottom Ft.		
Top	Bottom Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0	9.0	Tan fine/medium sand
9.0	17.0	Red/tan clayey sand
17.0	21.0	Tan fine to medium sand
21.0	23.0	Tan med clayey sand
23.0	29.0	Tan/lt brown large silty sand
29.0	45.0	Grey silty clay
45.0	-	hit refusal on grey silty clay

12. REMARKS:

~~Pre-packaged well screens and bentonite seal~~

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.

Thomas Whitehead 10/20/10
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

Thomas 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 # 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# WM0600824

OTHER ASSOCIATED PERMIT#(if applicable)

SITE WELL ID #(if applicable) GP-4

3. WELL USE (Check One Box) Monitoring ☑ Municipal/Public ☐

Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐

Irrigation ☐ Other ☐ (list use)

DATE DRILLED 9/9/2010

4. WELL LOCATION:

1061 Highway 177 North - 28345
(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 ° 55 ' 49.2000 " DMS OR 3x.xxxxxxxxx DD

LONGITUDE 79 ° 38 ' 21.0100 " 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.)

Mary Chappell Site NONCD000286
Facility Name Facility ID# (if applicable)

1061 Highway 177 North
Street Address

Hamlet NC 28345
City or Town State Zip Code

Mr. Sean Boyles (NCDENR-Project Mgr.)
Contact Name

225 Green Street, Suite 714
Mailing Address

Fayetteville NC 28301
City or Town State Zip Code

(910) 433-3345
Area code Phone number

6. WELL DETAILS:

a. **TOTAL DEPTH:** 39.80

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☑

c. **WATER LEVEL** Below Top of Casing: 37.45 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 29.80	Ft.	1"	sch 40	PVC
Top	Bottom	Ft.			
Top	Bottom	Ft.			

8. GROUT:	Depth		Material	Method
Top 27.30	Bottom 29.80	Ft.	Bentonite	pre-packed
Top -0.4	Bottom 27.30	Ft.	Cement	Tremie
Top	Bottom	Ft.		

9. SCREEN:	Depth		Diameter	Slot Size	Material
Top 29.90	Bottom 39.80	Ft.	1 in.	.010 in.	PVC
Top	Bottom	Ft.	in.	in.	pre-packed
Top	Bottom	Ft.	in.	in.	

10. SAND/GRAVEL PACK:	Depth		Size	Material
Top 29.80	Bottom 39.80	Ft.	#2	Silica pre-packed
Top	Bottom	Ft.		
Top	Bottom	Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0	5.0	Brown medium sand
5.0	13.0	Orange/tan clayey sand
13.0	17.0	Orange/tan fine sand
17.0	25.0	Lt tan/white med sand
25.0	26.0	White clayey silt
2.60	31.5	Tan/white fine med sand
31.5	33.0	Tan/pink fine sand
33.0	39.0	Tan/lt brown large sand
39.0	40.0	White silty clay very hard
40.0	-	hit fefusal on white silty clay

12. REMARKS:

~~Pre-packaged well screens and bentonite seal~~

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.

Thomas Whitehead 10/20/10
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

Thomas 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 # 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# WM0600824

OTHER ASSOCIATED PERMIT#(if applicable)

SITE WELL ID #(if applicable) GP-6

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

DATE DRILLED 9/8/2010

4. WELL LOCATION:

1061 Highway 177 North - 28345
(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 ° 55 ' 47.7000 " DMS OR 3x.xxxxxxxxx DD

LONGITUDE 79 ° 38 ' 17.7200 " 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.)

Mary Chappell Site NONCD000286
Facility Name Facility ID# (if applicable)

1061 Highway 177 North
Street Address

Hamlet NC 28345
City or Town State Zip Code

Mr. Sean Boyles (NCDENR-Project Mgr.)
Contact Name

225 Green Street, Suite 714
Mailing Address

Fayetteville NC 28301
City or Town State Zip Code

(910) 433-3345
Area code Phone number

6. WELL DETAILS:

a. TOTAL DEPTH: 48.50

b. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☑

c. WATER LEVEL Below Top of Casing: 46.68 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 38.5 Ft.	1"	sch 40	PVC
Top	Bottom Ft.			
Top	Bottom Ft.			

8. GROUT:

Depth		Material	Method
Top 36.0	Bottom 38.5 Ft.	Bentonite	pre-packed
Top -0.4	Bottom 36.0 Ft.	Cement	Tremie
Top	Bottom Ft.		

9. SCREEN:

Depth		Diameter	Slot Size	Material
Top 38.5	Bottom 48.5 Ft.	1 in.	.010 in.	PVC
Top	Bottom Ft.	in.	in.	pre-packed
Top	Bottom Ft.	in.	in.	

10. SAND/GRAVEL PACK:

Depth		Size	Material
Top 38.5	Bottom 48.5 Ft.	#2	Silica pre-packed
Top	Bottom Ft.		
Top	Bottom Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0	5.0	Lt brown/tan fine sand
5.0	8.0	Lt brown/tan clayey sand
8.0	14.0	Orange/tan clayey sand
14.0	16.0	Lt tan/white clayey silt
16.0	17.0	Tan/orange clayey sand medium
17.0	29.0	Tan/orange medium silty sand
29.0	38.0	Lt tan/brown silty sand
38.0	42.0	Pink/tan medium/lg sand
42.0	49.0	Red/tan fine silty sand

12. REMARKS:

~~Pre-packaged well screens and bentonite seal~~

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 10/20/10

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 # 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# WM0600824

OTHER ASSOCIATED PERMIT#(if applicable)

SITE WELL ID #(if applicable) GP-7

3. WELL USE (Check One Box) Monitoring ☑ Municipal/Public ☐

Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐

Irrigation☐ Other ☐ (list use)

DATE DRILLED 9/8/2010

4. WELL LOCATION:

1061 Highway 177 North - 28345
(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 ° 55 ' 50.8600 " DMS OR 3x.xxxxxxxxx DD

LONGITUDE 79 ° 38 ' 22.1000 " 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.)

Mary Chappell Site NONCD000286
Facility Name Facility ID# (if applicable)

1061 Highway 177 North
Street Address

Hamlet NC 28345
City or Town State Zip Code

Mr. Sean Boyles (NCDENR-Project Mgr.)
Contact Name

225 Green Street, Suite 714
Mailing Address

Fayetteville NC 28301
City or Town State Zip Code

(910) 433-3345
Area code Phone number

6. WELL DETAILS:

a. TOTAL DEPTH: 39.90

b. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☑

c. WATER LEVEL Below Top of Casing: 37.90 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 29.90	Ft.	1"	sch 40	PVC
Top	Bottom	Ft.			
Top	Bottom	Ft.			

8. GROUT:	Depth		Material	Method
Top 27.40	Bottom 29.90	Ft.	Bentonite	pre-packed
Top -0.4	Bottom 27.40	Ft.	Cement	Tremie
Top	Bottom	Ft.		

9. SCREEN:	Depth		Diameter	Slot Size	Material
Top 29.90	Bottom 39.90	Ft.	1 in.	.010 in.	PVC
Top	Bottom	Ft.	in.	in.	pre-packed
Top	Bottom	Ft.	in.	in.	

10. SAND/GRAVEL PACK:	Depth		Size	Material
Top 29.90	Bottom 39.90	Ft.	#2	Silica pre-packed
Top	Bottom	Ft.		
Top	Bottom	Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0	5.0	Brown/tan medium sand
5.0	9.0	Tan/orange medium clayey sand
9.0	13.0	Tan clayey sand
13.0	21.0	Tan medium sand
21.0	25.0	White large grain clayey sand
25.0	29.0	Tan clayey sand med-lg grain
29.0	32.0	Tan fine silty sand
32.0	36.0	Tan clayey sand
36.0	38.5	Medium to fine white/tan clay
38.5	41.0	Red/purple marbled silty clay

12. REMARKS:

~~Pre-packaged well screens and bentonite seal~~

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.

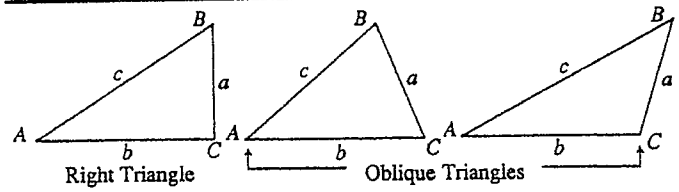
SIGNATURE OF CERTIFIED WELL CONTRACTOR 10/20/10 DATE

Thomas 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

TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

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

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

HAmlet, NC

9/7/10 1054-10-2003 (1)

Sunny 90's MARY Chappel Site

On: Site David Wells
Gerald Paul
Keith Snavely NCDENR
Mike Norton Heath Dept
David Brown NCDENR
SEAN Boyle NCDENR P.M

0830 - Arrived on Site
0845 - David Wells On Site
- laid out borings / Site photos
0915 - Bateman on site to locate utilities
Repositioned GP-7 6' closer to bldg/cars
1130 - S+ME Drillers on Site
1155 - Started Drilling after HTS meeting
GP-5
0-5 light tan Sand (topsoil 6") 2' Rec
5-6 Hbrown to dark brown Clayey Sand.
6-7 Or to brown Clayey Sand.
7-7.5 - grey Sand. (med)
7.5-10 - tan/or Clayey Sand (Very hard) sand
10-12 - tan/or w/brown Sand mixed w clayey
12-14 grey/red Clayey Sand (med) Very hard
14-18 large grain Sand w/or clayey Sand (qtz)
18-20 - " "
20-22 - fine light tan Sand (moist)

GP-5 Cont (2)

22-26 mixed layers of firm white Sand to brown Clayey Sand, Zone of oxidation @ 23.5 to 24' bgs Poss Seasonal high water table?
26-30 Fine tan Sand w/qtz (moist)
30-31 " "
31-34 Brown Clayey Sand wet @ 32' med Sand to 34' 32.5 - Dark brown oxi layer
34-35 Silty fine Sand pink to lt brown
35-37.5 - Silty fine/med Sand banded w/pink to tan layers
37.5-38 lt tan to grey Silty Sand pink @ 37.5
38-40 white Silty Fine grained Sand.
40-42 tan med to Fine grained Sand
42-44 white med to fine Sand (Silty)
44-46 " "
Set Screen to 36-46' bgs Pre Packed
*1630 Set up on GP-4 Pre Packed Bentonite 33.5-36
Utilities too close to boring - moved 4' beyond Utilities to North east
0.5 brown med Sand 6" topsoil - 3' Rec
5-9-13 OR/tan Clayey Sand med
13-17 - OR/tan fine Sand
17-21 Lt tan/white med Sand (moist)
21-25 med/Lg grain brown/tan Sand, 2" layer of white Clayey Silt @ 23.5 (DRY)

GP-4 cont. (3)

25-26 - white Clayey Silt
26-31.5 - tan/white fine to med Sand (moist)
31.5 water Bearing zone (wet)
31.5-33 - Tan/pink fine Sand (moist)
33-34 tan/brown large Sand (moist)
34 - Dark oxidized layer Brown Sand
34-37 tan to lt brown med Sand Clayey (moist)
37-39 " "
39-41 Very hard white Silty Clay * Con layer
1830 No water in GP-5 2" in GP-4
Cleaned up left Site

9/8/10

0800 Called David wells - No water in GP-5 to Redrill GP-5 to 49'
0815 - H&S meeting
0830 - Set up on GP-5 to 49'
Screen 39-49 Bent 36.5-39
1010 - Sampled mark chappell WSW - at well house
1050 - Sampled William Brown WSW - 2 wells only one in operation. Sampled Brown well @ Spicket on side of home.
Caddell Residence Abandoned - No Power
Second well (house burned down)
1100 Set up on GP-6
0-5 lt brown/tan Fine/med Sand 4" topsoil
3' Rec

(4)

GP-6 cont

5-8- lt brown/tan Clayey Sand
9-14 tan/OR clayey Sand (med grain)
14-16 tan/grey/white Clayey Silt (very hard)
16-17 tan/OR Clayey Sand med
17-21 tan/OR med Silty Sand (Damp)
21-25 " "
25-29 " "
29-31 tan/med Silty Sand - 31-32 Silty Fine Sand tan/lt brown with pink
32-34.8- lt tan/brown Silty Sand Fine
34.8-36 Brown/tan Well graded Silty Sand
36-38 brown/tan w/white Silty Sand (med)
38-40 Pink to tan med to lg grain Sand.
40-42 "
42-44 Red/tan Fine Silty Sand (wet) Saturated.
to Drive well to 49' After lunch
1310 - Sampled Mary Chappell well
1330-14 b - lunch
Set well GP-6 to 49' Screen 39-49 Bent 36.5-39
1630 - Set up on GP-7
0-5 tan/brown med Sand
5-9 tan/OR med Clayey Sand (very firm)
9-13 tan clayey Sand - less clay @ 13'
13-17 tan Sand (med) moist
17-21 tan Sand to 18' Dark band " then tan/white Fluffy Sand (moist)

(5)

GP7 Cont

21-25 White lg grain Clayey Sand to yellow/tan
25-29 tan Clayey Sand med-lg to 27 then fine Silty Sand.
29-32 Fine tan Silty Sand - Dark layer w/qtz @ 31'
32-36 - tan Clayey Sand to 33 then dark brown Clayey Sand w/qtz to 35 then Tan fine Sand.
36-38.5 - med to fine white/tan Clay (Wet)
38.5-40 - Red to Red/grey Very tight Silty Clay
40-41 Very tight Red to purple marbled clay.
Very wet on top of Clay
Set GP-7 to 40
9/9/10 On Site 0800 Same people on site
X 90's lot Continue drilling
0850 Set up on GP-3 begin drilling - Relocated GP-3 Due to mult utilities.
0-5 - tan Fine/med sand (6" topsoil)
5-9 - " "
9-13 - Red/tan Clayey Sand med/lg
13-17 Red/tan Clayey Sand to 14' then tan/grey Silty Clay to 16 then tan fine Sand to 17.
17-21 - fine to med tan Sand Slightly clayey (moist)
21-23 - Med tan Clayey Sand (moist)
23-25 - tan/lt brown lg Sand (moist)
25-29 - tan to lt brown lg Sand
29-33 - fine tan/brown Silty Sand (moist)
33-37 Very little Recovery Same as above

(6) GP-3 Cont.

37-41 Fine tan Silty Sand w/bands of silty clay @39' + 40' (No Signs of Water)
Refusal @ 45' bgs Set well @ 45'
41-43 Fine tan silty Sand
43-45 Very Stiff Silty grey clay.
1215 lunch
1245 Set up on GP-1
0-5 tan/brown med Sand
5-9 " "
9-11 " "
11-13 med/lg orange Clayey Sand
13-15 tan Fine clayey Sand "
15-17 tan/white Fine Sand
17-21 tan/white/pink med grain Sand (moist)
21-25 tan/white med Sand (moist)
Band of oxy Sand @ 24'
25-29 lg clayey Sand white to 28' then tan to orange Silty clayey Sand.
29-33 tan/white Fine Silty Sand (moist)
33-37 " " Alternating Color white/tan
37-41 " " to 38 then tan/lt brown lg Sand
band of white silty clay @ 40'
Set GP-1 to 49' bgs
1510 - Set up on GP-2
0-5 tan med Sand
5-9 " "
9-13 tan/or clayey Sand (med grain)

Cont. GP-2 (7)

13-17 tan/or clayey Sand (med grain)
17-21 tan/or/brown hard Silty clay to 19.5 then Fine tan Silty Sand
21-25 tan/or Silty Sand
25-29 tan/white lg Silty Sand (moist)
29-33 " " to 30 then Fine tan Silty Sand
tight tan/white Silty clay @ 32.5'
33-37 - med tan/lt brown Silty Sand (moist)
1" thick band of white Silty clay wet
37-41 - med tan/lt brown Silty Sand
1" thick band white Silty clay @ 38 + 40
41-45 - tan/brown Silty Sand (wet) wet bands
Set well on clay to 46 Refusal

	PID GP-3		PID GP-1	
0-5	0.2		0.0	
5-9	1.3		0.0	
9-13	74.6		0.6	
13-17	360	Sampled @ 1250 9/9/10	6.8	
17-21	1.6		1.0	Sampled @ 1345 9/9/10
21-25	0.2		0.6	
25-29	0.1		6.6	
29-33	0.3		6.4	Collected Duplicate Sample on GP-1
33-37	0.2		0.2	
37-41	0.1		6.6	
41-45	—		—	

(8)

PID	GP-6	GP-7
0-5	0.8	0.0
5-9	1.2	0.0
9-13	0.7	0.0
13-17	0.8	0.2
17-21	0.7	0.1
21-25	0.2	0.0
25-29	0.8	0.8
29-32	0.8	0.0
32-36	0.6	0.0
36-40	0.7	0.0

Sampled @ 1840 9/8/10

GP-2		GP-5
0-5	0.1	30.4
5-9	0.0	21.6
9-13	0.0	4.6
13-17	0.0	4.3
17-21	0.6	5.2
21-25	0.0	1.4
25-29	0.0	0.9
29-33	0.1	0.4
32-37	0.0	0.1
37-41	0.0	1.0
41-45	0.4	1.0

Sampled @ 1320 9/7/10

Sample 1645 9/9/10

Rinse blank Sample @ 1800 9/9/10
on Sleeves

(9)

GP4	PID
0-5	0.0
5-9	0.0
9-13	0.0
13-17	0.0
17-21	0.1
21-25	0.0
25-29	0.0
29-33	0.4
33-37	0.0
37-41	0.0

Sampled @ 0938 9/8/10

9/10/10

	TWD	Stick up	TWD BGS	H_2O BGS	H_2O BTOC
GP-1	50.60	2.1	48.5	44.83	46.93
GP-2	46.65	1.0	45.65	44.56	45.56
GP-3	47.52	2.80	44.72	42.46	45.26
GP-4	41.2	1.4	39.80	37.50	38.90
GP-5	~~ABANDONED~~				
GP-6	50.0	1.5	48.50	47.0	48.23
GP-7	42.50	2.60	39.90	38.01	40.61

9/20/10 on site to Sample many chapwell

Water levels

GP-3 42.37
GP-4 37.45
GP-6 46.68
GP-1 44.91
GP-7 37.90
GP-2 44.56

(10)

GP-3 – Sample time 1115

temp(C)	Cond(ms/cm)	DO(mg/L)	PH	ORP	Turb
21.95	0.154	3.61	4.11	110	ERROR 4

GP-4 – Sample time 1145

23.84	0.115	5.80	5.63	79.8	ERROR 4

GP-6 Sample time 1230

21.67	0.020	7.00	5.14	164	1236

GP-7 Sample time 1415

20.32	0.042	7.06	6.26	63.1	1188

GP-1 Sample time 1430

20.38	0.059	5.66	5.87	78.2	1339

GP-2 Sample time 1500 *collected Duplicate *

21.45	0.128	9.67	5.09	228	686

Sampled equip blank @ 1800

9/2/11 SAMPLED RUSSELL WSW @ 1430

(11)

FINAL WELL DIMENSIONS

GP-1

TWD: 48.5 (~~5~~ CAP)

10' Screen 38.5-48.5

2.5' Bentonite 36-38.5

Riser 0-36 TOB Water: 44.83' bgs

Additional Sand to Seal well Then Hydrate The prepacked Bentonite Seal Then grout to Surface. flush-mount

GP-2

TWD: 45.65

Screen: 10' 35.65-45.65 Additional sand around Pre pack Screen

Bentonite: 2.5' 33.15-35.65

grout to Surface – Flushmount. TOB water: 44.56' bgs

GP-3

TWD: 44.72

Screen: 10' 34.72-44.72 Add Sand, hyd Bent

Bent: 2.5' 32.22-34.72

grout to Surface – Flushmount TOB water: 42.46' bgs

GP-4

TWD: 39.80

Screen: 10' 29.80-39.80 Add sand, hyd bent

Grout to Surface – Flushmount

GP-5 TWD: 46' bgs TBD: 46

Screen: 36-46' TOB Water: NO WATER IN WELL

Bent: 33.5-36

No grout added – PIPE Pulled From Boring.

GP-6

TWD: 48.50 TBD:

Screen: 38.50 – 48.50

Bent: 36 – 38.50 ToBWater: 47' bgs

Grout to Surface – Flush mount

GP-7

TWD: 39.90

Screen: 29.90 – 39.90

Bent: 27.4 – 29.90 ToB Water: 38.01' bgs

Grout to Surface – Flush mount.

Drilling totals

GP-5	Boring	46	Retrieved to 49	Well	48 – Removed well
GP-7	Boring	41		Well	39.90
GP-6	Boring	49		Well	48.5
GP-4	Boring	41		Well	39.80
GP-3	Boring	45		Well	44.72
GP-2	Boring	46		Well	45.65
GP-1	Boring	49		Well	48.5
		320			316.07

Mary Chappell WSW 98'6" TWD

Water 72'7"

Appendix III

Calculations

Mary Chappell Site
IHSB No.
177 Highway
Hamlet, North Carolina
S&ME Project No. 1054-10-2002

Groundwater Contour Calculations

Elevation		Elevation	Distance	Gradient	378	377	376	Contour 375	374	373	372
GP-7	to	GP-1									
378.67		377.57	300	0.00367	182.7						
GP-7		GP-3			378						
378.67		378.45	217	0.00101	660.9						
GP-7		GP-4			378						
378.67		378.00	177	0.00379	177.0						
GP-3		GP-4			378.0	377.0	376.0	375.0	374.0	373.0	372.0
378.45		378.00	142	0.00317	142.0	457.6					
GP-4		GP-6			378.0	377.0	376.0	375.0	374.0	373.0	372.0
378.00		371.10	298	0.02315	0.0	43.2	86.4	129.6	172.8	215.9	259.1
GP-3		GP-1			378.0	377.0	376.0	375.0	374.0	373.0	372.0
378.45		377.57	110	0.008	56.2						
GP-3		GP-2			378.0	377.0	376.0	375.0	374.0	373.0	372.0
378.45		377.82	106	0.00594	75.7	244.0					
GP-3		GP-6			378.0	377.0	376.0	375.0	374.0	373.0	372.0
378.45		371.10	272	0.02702	16.7	53.7	90.7	127.7	164.7	201.7	238.7
GP-2		GP-6			377.0	376.0	375.0	374.0	373.0	372.0	371.0
377.82		371.10	258	0.02605	31.5	69.9	108.3	146.7	185.1	223.4	261.8

		TOC	DTW	Prod	Elev
GP-1	9/20/2010	422.48	44.91	0.00	377.57
GP-2	9/20/2010	422.38	44.56	0.00	377.82
GP-3	9/20/2010	420.82	42.37	0.00	378.45
GP-4	9/20/2010	415.45	37.45	0.00	378.00
GP-5	9/20/2010	Abandoned	NM	NC	NC
GP-6	9/20/2010	417.78	46.68	0.00	371.10
GP-7	9/20/2010	416.57	37.90	0.00	378.67

Appendix IV

Field Groundwater Sampling Logs

S&ME

GROUNDWATER SAMPLING LOG

Groundwater Samling Form

Site Name:	MARY CHAPPELL	S&ME Project No.:	1054-10-2003
Well No:	GP-1	Sample ID: GP-1	Date: 9-20-2010

PURGING DATA

Well Dia. (in):	1	Well Depth (ft):	48.5	Depth Top of Screen:	38.0	Depth Bottom of Screen (ft):	48.0	Depth to Water from TOC (ft):	44.91	Purge Equipment or Bailer:	BAILER

Well Volume Purge = (total well depth - static water depth) (ft) - (ft) x well capacity (gal/ft) = gal. Well condition: NEW

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):	5

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
1430	.5	.5	5.87	20.38	0.057	1339	5.66	78.2	BROWN	NONE

1430 <----- 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: VERY LITTLE VOLUME - TURB'D

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 [illegible] FUNCTIONALITY

36.672.13.b - Groundwater Sampling Log - from EB 9050-24 Field / Groundwater Sampling Form-(1.2) - Printed 9/19/2010 11:20 AM from EXCEL

S&ME

GROUNDWATER SAMPLING LOG

Groundwater Samling Form

Site Name:	MARY CHAPPELL	S&ME Project No.:	1054-10-2003
Well No:	GP-2	Sample ID: GP-2	Date: 9-20-2010

PURGING DATA

Well Dia. (in):	1	Well Depth (ft):	45.65	Depth Top of Screen:	35.15	Depth Bottom of Screen (ft):	45.15	Depth to Water from TOC (ft):	44.56	Purge Equipment or Bailer:	BAILER

Well Volume Purge = [ ] (ft) - [ ] (ft) x [ ] (gal/ft) = [ ] gal. (total well depth - static water depth) x well capacity

Well condition: NEW

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):	.5

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
1500	.5	.5	5.09	21.45	0.128	686	9.67	228	Brown	NONE

1500 <----- 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: VERY LITTLE WATER - VERY TURBID COLLECTED DUPLICATE ON GP2

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 Acrobat FUNCTIONALITY

S&ME GROUNDWATER SAMPLING LOG

Groundwater Samling Form

Site Name:	MARY CHAPPELL	S&ME Project No.:	1054-10-2003
Well No:	GP-3	Sample ID: GP-3	Date: 9-20-2010

PURGING DATA

Well Dia. (in):	1	Well Depth (ft):	44.72	Depth Top of Screen:	34.22	Depth Bottom of Screen (ft):	44.22	Depth to Water from TOC (ft):	42.37	Purge Equipment or Bailer:	BAILER

Well Volume Purge = ____ (ft) - ____ (ft) x ____ (gal/ft) = ____ gal. (total well depth - static water depth) x well capacity

Well condition: NEW

Initial Pump or Tubing Depth in Well (ft):		Final Pump or Tubing Depth in Well (ft):		Purging Initiated at:		Purging Ended at:	1115	Total Volume Purged (Gal):	.5		

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
1115	.5	.5	4.11	21.95	0.154	ERROR	3.61	110	BROWN	NONE

1115 <----- 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: VERY LITTLE VOLUME - TURBID

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 [signature] FUNCTIONALITY

16.PT.12.B - GroundWater Sampling Log - Rank 99 5609-24 Final / GroundWater Sampling Form (111 - Transcap) 9/29/2010 11:20 AM Acrobat 10.0/PDF-4410

S&ME

GROUNDWATER SAMPLING LOG

Groundwater Samling Form

Site Name:	MARY CHAPPELL	S&ME Project No.:	1054-10-2003
Well No:	GP-4	Sample ID: GP-4	Date: 9-20-2010

PURGING DATA

Well Dia. (in):	1	Well Depth (ft):	39.80	Depth Top of Screen:	29.30	Depth Bottom of Screen (ft):	39.30	Depth to Water from TOC (ft):	37.45	Purge Equipment or Bailer:	BAILER

(total well depth - static water depth) x well capacity

Well Volume Purge = 2 (ft) - (ft) x (gal/ft) = gal. Well condition: NEW

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):	.5

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
	.5	.5	5.63	23.84	0.115	ERROR 4	5.80	79.8	Brown	None

<----- 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): GERARD PALL Sampler (Signature): G. Pall

Samples Analyses: ☒ VOCs 8260B ☐ 8 RCRA Metals ☐ PCBs ☐ Herbicides Refernce Chain of Custody dated:

☐ SVOCs 8270D ☐ 14 Priority Pollutant Metals ☐ Pesticide

☐ 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 Anato FUNCTIONALITY

S&ME GROUNDWATER SAMPLING LOG

Groundwater Samling Form

Site Name:	MARY CHAPPELL	S&ME Project No.:	1054-10-2003
Well No:	GP-6	Sample ID: GP-6	Date: 9-20-2010

PURGING DATA

Well Dia. (in):	1	Well Depth (ft):	48.50	Depth Top of Screen:	38.0	Depth Bottom of Screen (ft):	48.0	Depth to Water from TOC (ft):	46.68	Purge Equipment or Bailer:	BAILER

Well Volume Purge = ____ (ft) - ____ (ft) x ____ (gal/ft) = ____ gal. (total well depth - static water depth) x well capacity

Well condition: NEW

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):	.5

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
1230	.5	.5	5.14	21.67	0.020	1236	7.00	164	Brown	NONE

1230 <----- 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: VERY LITTLE WATER - TURBID

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 Acrobat FUNCTIONALITY

S&ME GROUNDWATER SAMPLING LOG

Groundwater Samling Form

Site Name:	MARY CHAPPELL	S&ME Project No.:	1054-10-2003
Well No:	GP-7	Sample ID: GP-7	Date: 9-20-2010

PURGING DATA

Well Dia. (in):	1	Well Depth (ft):	39.90	Depth Top of Screen:	29.4	Depth Bottom of Screen (ft):	39.4	Depth to Water from TOC (ft):	37.90	Purge Equipment or Bailer:	BAILER

Well Volume Purge = ____ (ft) - ____ (ft) x ____ (gal/ft) = ____ gal. (total well depth - static water depth) x well capacity

Well condition: NEW

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):	5		

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
1415	.5	.5	6.26	20.32	0.042	1188	7.06	63.1	Brown	NONE

1415 <---- 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: VERY LITTLE WATER - TURBID

Sampler (print name): GERALD PAUL Sampler (Signature): [signature]

Samples Analyses: ☒ VOCs 8260B ☐ 8 RCRA Metals ☐ PCBs ☐ Herbicides Reference 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 V

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 23, 2010

S&ME, Inc.-(SM001)

Attn: Ed Woloszyn

3201 Spring Forest Road

Raleigh, NC 27616

RE: Laboratory Results for
Project Number: 1054-10-2003, Project Name/Desc: Mary Chappell Site
ENCO Workorder: C010226

Dear Ed Woloszyn,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, September 8, 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

Chuck Smith
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 81.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: Mary L. Chappell - WSW-1 | **Lab ID: C010226-01** | **Sampled: 09/08/10 13:10** | **Received: 09/08/10 15:25**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
Colilert 18-9223B	09/09/10 19:10	09/09/10 15:01	09/08/10	16:57	9/9/2010 12:14
E. coli, Colilert 18 9223B	09/09/10 19:10	09/09/10 15:01	09/08/10	16:57	9/9/2010 12:14
EPA 6010C	03/07/11		09/09/10	12:08	9/10/2010 12:39
EPA 6020A	03/07/11		09/10/10	14:42	9/14/2010 12:47
EPA 7470A	10/06/10		09/15/10	08:56	9/15/2010 17:11
EPA 8081B	09/15/10	10/20/10	09/10/10	09:11	9/10/2010 21:15
EPA 8260B	09/22/10		09/10/10	08:38	9/10/2010 19:31
EPA 8270D	09/15/10	10/20/10	09/10/10	06:21	9/10/2010 14:23

Client ID: Mark Chappell - WSW-2 | **Lab ID: C010226-02** | **Sampled: 09/08/10 10:10** | **Received: 09/08/10 15:25**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	03/07/11		09/09/10	12:08	9/10/2010 12:36
EPA 6020A	03/07/11		09/10/10	14:42	9/14/2010 12:50
EPA 7470A	10/06/10		09/15/10	08:56	9/15/2010 17:15
EPA 8081B	09/15/10	10/20/10	09/10/10	09:11	9/10/2010 21:28
EPA 8260B	09/22/10		09/10/10	08:38	9/10/2010 20:00
EPA 8270D	09/15/10	10/20/10	09/10/10	06:21	9/10/2010 14:56

Client ID: William Brown WSW-5 | **Lab ID: C010226-03** | **Sampled: 09/08/10 10:50** | **Received: 09/08/10 15:25**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	03/07/11		09/09/10	12:08	9/10/2010 12:44
EPA 6020A	03/07/11		09/10/10	14:42	9/14/2010 12:54
EPA 7470A	10/06/10		09/15/10	08:56	9/15/2010 17:18
EPA 8081B	09/15/10	10/20/10	09/10/10	09:11	9/10/2010 21:42
EPA 8270D	09/15/10	10/20/10	09/10/10	06:21	9/10/2010 15:28

Client ID: William Brown WSW-5 | **Lab ID: C010226-03RE1** | **Sampled: 09/08/10 10:50** | **Received: 09/08/10 15:25**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	09/22/10		09/11/10	10:21	9/11/2010 20:59

Client ID: GP-5 (0-5') | **Lab ID: C010226-04** | **Sampled: 09/07/10 13:20** | **Received: 09/08/10 15:25**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	03/06/11		09/14/10	11:05	9/15/2010 10:38
EPA 7471B	10/05/10		09/14/10	10:54	9/14/2010 16:44
EPA 8081B	09/21/10	10/24/10	09/14/10	09:57	9/16/2010 20:33
EPA 8260B	09/21/10		09/09/10	10:19	9/9/2010 18:00
EPA 8270D	09/21/10	10/26/10	09/16/10	14:49	9/20/2010 18:57

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Client ID: GP-5 (0-5')	Lab ID: C010226-04RE1	Sampled: 09/07/10 13:20	Received: 09/08/10 15:25

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	09/21/10		09/15/10	08:26	9/15/2010 17:41

Client ID: GP-4 (29-33')	Lab ID: C010226-05	Sampled: 09/08/10 09:38	Received: 09/08/10 15:25

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	03/07/11		09/14/10	11:05	9/15/2010 10:40
EPA 7471B	10/06/10		09/14/10	10:54	9/14/2010 16:47
EPA 8081B	09/22/10	10/24/10	09/14/10	09:57	9/16/2010 20:46
EPA 8260B	09/22/10		09/09/10	10:19	9/9/2010 18:29
EPA 8270D	09/22/10	10/26/10	09/16/10	14:49	9/20/2010 19:27

Client ID: GP-4 (29-33')	Lab ID: C010226-05RE1	Sampled: 09/08/10 09:38	Received: 09/08/10 15:25

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	09/22/10		09/15/10	08:26	9/15/2010 18:09

Client ID: GP-6 (5-9')	Lab ID: C010226-06	Sampled: 09/08/10 13:30	Received: 09/08/10 15:25

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	03/07/11		09/14/10	11:05	9/15/2010 10:43
EPA 7471B	10/06/10		09/14/10	10:54	9/14/2010 16:50
EPA 8081B	09/22/10	10/24/10	09/14/10	09:57	9/16/2010 21:00
EPA 8260B	09/22/10		09/09/10	10:19	9/9/2010 18:57
EPA 8270D	09/22/10	10/26/10	09/16/10	14:49	9/20/2010 19:56

Client ID: GP-6 (5-9')	Lab ID: C010226-06RE1	Sampled: 09/08/10 13:30	Received: 09/08/10 15:25

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	09/22/10		09/15/10	08:26	9/15/2010 18:38

SAMPLE DETECTION SUMMARY

Client ID: Mary L. Chappell - WSW-1 Lab ID: C010226-01

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Beryllium - Total	0.276	J	0.100	1.00	ug/L	EPA 6010C	
Cadmium - Total	0.370	J	0.360	1.00	ug/L	EPA 6010C	
Chloromethane	0.66	J	0.34	1.0	ug/L	EPA 8260B	
Chromium - Total	1.86	JB	1.00	10.0	ug/L	EPA 6010C	J-01
Copper - Total	108		1.60	10.0	ug/L	EPA 6010C	
Lead - Total	67.7		1.90	10.0	ug/L	EPA 6010C	
Manganese - Total	4.30	J	1.10	10.0	ug/L	EPA 6010C	
Naphthalene	2.8		0.39	1.0	ug/L	EPA 8260B	
Thallium - Total	0.612	JB	0.110	1.00	ug/L	EPA 6020A	J-01
Trichloroethene	34		0.38	1.0	ug/L	EPA 8260B	
Zinc - Total	32.0		3.80	10.0	ug/L	EPA 6010C	

Client ID: Mark Chappell - WSW-2 Lab ID: C010226-02

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Copper - Total	99.4		1.60	10.0	ug/L	EPA 6010C	
Lead - Total	8.28	J	1.90	10.0	ug/L	EPA 6010C	
Manganese - Total	4.69	J	1.10	10.0	ug/L	EPA 6010C	
Thallium - Total	0.480	JB	0.110	1.00	ug/L	EPA 6020A	J-01
Zinc - Total	26.3		3.80	10.0	ug/L	EPA 6010C	

Client ID: William Brown WSW-5 Lab ID: C010226-03

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	3.43	J	2.80	10.0	ug/L	EPA 6010C	
Copper - Total	14.3		1.60	10.0	ug/L	EPA 6010C	
Thallium - Total	0.402	JB	0.110	1.00	ug/L	EPA 6020A	J-01
Zinc - Total	5.37	J	3.80	10.0	ug/L	EPA 6010C	

Client ID: William Brown WSW-5 Lab ID: C010226-03RE1

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Trichloroethene	1.2		0.38	1.0	ug/L	EPA 8260B	

Client ID: GP-5 (0-5') Lab ID: C010226-04

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
.alpha.-Pinene	0.088	J			mg/kg dry	EPA 8260B	
1R-.alpha.-Pinene	0.27	J			mg/kg dry	EPA 8270D	
Arsenic - Total	0.739		0.103	0.517	mg/kg dry	EPA 6010C	
Bicyclo[2.2.1]heptan-2-ol, ...	0.0076	J			mg/kg dry	EPA 8260B	
Bicyclo[2.2.1]heptan-2-one,...	0.0073	J			mg/kg dry	EPA 8260B	
Camphene	0.014	J			mg/kg dry	EPA 8260B	
Carbon Dioxide	0.19	J			mg/kg dry	EPA 8260B	
Chromium - Total	2.16		0.103	0.517	mg/kg dry	EPA 6010C	
Copper - Total	0.970		0.197	0.517	mg/kg dry	EPA 6010C	
Cyclohexanemethanol, 4-hydroxy	0.14	J			mg/kg dry	EPA 8270D	
Cyclohexene, 1-methyl-4-(1-... (01)	0.010	J			mg/kg dry	EPA 8260B	
Cyclohexene, 1-methyl-4-(1-... (02)	0.011	J			mg/kg dry	EPA 8260B	
D-Limonene	0.019	J			mg/kg dry	EPA 8260B	
Ethane, 1,1,2,2-tetrachloro-	0.39	JB			mg/kg dry	EPA 8270D	B
Ethane, 1,1,2-trichloro-	0.16	J			mg/kg dry	EPA 8270D	
Lead - Total	2.08		0.124	0.517	mg/kg dry	EPA 6010C	

Client ID: GP-5 (0-5') Lab ID: C010226-04

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
L-Fenchone	0.0042	J			mg/kg dry	EPA 8260B	
Manganese - Total	7.53		0.103	0.517	mg/kg dry	EPA 6010C	
Nickel - Total	0.691	J	0.372	2.59	mg/kg dry	EPA 6010C	
Selenium - Total	0.144	JB	0.103	0.517	mg/kg dry	EPA 6010C	J-01
Thallium - Total	0.379	J	0.103	0.517	mg/kg dry	EPA 6010C	
Unknown (01)	0.53	JB			mg/kg dry	EPA 8270D	B
Unknown (02)	0.17	J			mg/kg dry	EPA 8270D	
Unknown (03)	0.32	J			mg/kg dry	EPA 8270D	
Zinc - Total	1.62	J	1.14	2.59	mg/kg dry	EPA 6010C	

Client ID: GP-5 (0-5') Lab ID: C010226-04RE1

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,3,6-Heptatriene, 2,5,5-tr...	0.0046	J			mg/kg dry	EPA 8260B	
1R-.alpha.-Pinene	0.049	J			mg/kg dry	EPA 8260B	
4-Isopropyltoluene	0.00087	J	0.00017	0.0010	mg/kg dry	EPA 8260B	
Bicyclo[2.2.1]heptan-2-ol, ...	0.0066	J			mg/kg dry	EPA 8260B	
Bicyclo[4.1.0]hept-2-ene, 3...	0.010	J			mg/kg dry	EPA 8260B	
Camphor	0.0068	J			mg/kg dry	EPA 8260B	
Carbon Dioxide	0.19	J			mg/kg dry	EPA 8260B	
Cyclopentasiloxane, decamet...	0.0067	J			mg/kg dry	EPA 8260B	
Limonene	0.0050	J			mg/kg dry	EPA 8260B	

Client ID: GP-4 (29-33') Lab ID: C010226-05

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
7-Oxabicyclo[4.1.0]heptane	0.21	J			mg/kg dry	EPA 8270D	
Arsenic - Total	1.22		0.110	0.549	mg/kg dry	EPA 6010C	
Benzoic acid, 4-methyl-2-tr...	0.012	J			mg/kg dry	EPA 8260B	
Carbon Dioxide	0.16	J			mg/kg dry	EPA 8260B	
Chromium - Total	1.34		0.110	0.549	mg/kg dry	EPA 6010C	
Copper - Total	3.10		0.209	0.549	mg/kg dry	EPA 6010C	
Cyclopentasiloxane, decamet...	0.0051	JB			mg/kg dry	EPA 8260B	
Ethane, 1,1,2,2-tetrachloro-	0.45	JB			mg/kg dry	EPA 8270D	B
Ethane, 1,1,2-trichloro-	0.19	J			mg/kg dry	EPA 8270D	
Lead - Total	0.846		0.132	0.549	mg/kg dry	EPA 6010C	
Manganese - Total	0.291	J	0.110	0.549	mg/kg dry	EPA 6010C	
Mercury - Total	0.00765	J	0.00527	0.0110	mg/kg dry	EPA 7471B	
Selenium - Total	0.942	B	0.110	0.549	mg/kg dry	EPA 6010C	J-01
Thallium - Total	0.160	J	0.110	0.549	mg/kg dry	EPA 6010C	
Unknown	0.56	JB			mg/kg dry	EPA 8270D	B

Client ID: GP-4 (29-33') Lab ID: C010226-05RE1

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Carbon Dioxide	0.097	J			mg/kg dry	EPA 8260B	
Cyclopentasiloxane, decamet...	0.0048	J			mg/kg dry	EPA 8260B	
Cyclotetrasiloxane, octamet...	0.013	J			mg/kg dry	EPA 8260B	

Client ID: GP-6 (5-9') Lab ID: C010226-06

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
7H-Dibenzo[b,g]carbazole, 7...	0.012	J			mg/kg dry	EPA 8260B	
Arsenic - Total	0.728		0.109	0.543	mg/kg dry	EPA 6010C	
Carbon Dioxide	0.21	J			mg/kg dry	EPA 8260B	

Client ID: GP-6 (5-9')			Lab ID: C010226-06				
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
Chromium - Total	2.48		0.109	0.543	mg/kg dry	EPA 6010C	
Copper - Total	1.18		0.206	0.543	mg/kg dry	EPA 6010C	
Cyclopentasiloxane, decamet...	0.0057	JB			mg/kg dry	EPA 8260B	
Ethane, 1,1,2,2-tetrachloro-	0.27	JB			mg/kg dry	EPA 8270D	B
Lead - Total	1.19		0.130	0.543	mg/kg dry	EPA 6010C	
Manganese - Total	3.51		0.109	0.543	mg/kg dry	EPA 6010C	
Nickel - Total	0.446	J	0.391	2.71	mg/kg dry	EPA 6010C	
Selenium - Total	0.347	JB	0.109	0.543	mg/kg dry	EPA 6010C	J-01
Thallium - Total	0.148	J	0.109	0.543	mg/kg dry	EPA 6010C	
Unknown	0.59	JB			mg/kg dry	EPA 8270D	B
Zinc - Total	1.42	J	1.19	2.71	mg/kg dry	EPA 6010C	

Client ID: GP-6 (5-9')			Lab ID: C010226-06RE1				
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
Carbon Dioxide	0.12	J			mg/kg dry	EPA 8260B	
Cyclopentasiloxane, decamet...	0.0051	J			mg/kg dry	EPA 8260B	
Cyclotetrasiloxane, octamet...	0.014	J			mg/kg dry	EPA 8260B	

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ANALYTICAL RESULTS

Description: Mary L. Chappell - WSW-1
Matrix: Water
Project: Mary Chappell Site

Lab Sample ID: C010226-01
Sampled: 09/08/10 13:10
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226

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	0I10007	EPA 8260B	09/10/10 19:31	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.20	U	ug/L	1	0.20	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.25	U	ug/L	1	0.25	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.94	U	ug/L	1	0.94	5.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
2-Chlorotoluene [95-49-8] ^	0.20	U	ug/L	1	0.20	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
4-Chlorotoluene [106-43-4] ^	0.25	U	ug/L	1	0.25	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
4-Isopropyltoluene [99-87-6] ^	0.26	U	ug/L	1	0.26	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
Bromobenzene [108-86-1] ^	0.28	U	ug/L	1	0.28	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
Chloromethane [74-87-3] ^	**0.66**	J	ug/L	1	0.34	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	

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Description: Mary L. Chappell - WSW-1
Matrix: Water
Project: Mary Chappell Site

Lab Sample ID: C010226-01
Sampled: 09/08/10 13:10
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226

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	0I10007	EPA 8260B	09/10/10 19:31	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.48	U	ug/L	1	0.48	2.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.38	U	ug/L	1	0.38	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
Naphthalene [91-20-3] ^	**2.8**		ug/L	1	0.39	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
n-Butyl Benzene [104-51-8] ^	0.20	U	ug/L	1	0.20	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
n-Propyl Benzene [103-65-1] ^	0.30	U	ug/L	1	0.30	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
o-Xylene [95-47-6] ^	0.27	U	ug/L	1	0.27	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
sec-Butylbenzene [135-98-8] ^	0.24	U	ug/L	1	0.24	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
tert-Butylbenzene [98-06-6] ^	0.28	U	ug/L	1	0.28	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
Trichloroethene [79-01-6] ^	**34**		ug/L	1	0.38	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	0I10007	EPA 8260B	09/10/10 19:31	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*51-122*	*0I10007*	*EPA 8260B*	*09/10/10 19:31*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*68-117*	*0I10007*	*EPA 8260B*	*09/10/10 19:31*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*69-110*	*0I10007*	*EPA 8260B*	*09/10/10 19:31*	*JKG*	

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Description: Mary L. Chappell - WSW-1
Matrix: Water
Project: Mary Chappell Site

Lab Sample ID: C010226-01
Sampled: 09/08/10 13:10
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,2,4-Trichlorobenzene [120-82-1] ^	1.2	U	ug/L	1	1.2	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
1,2-Dichlorobenzene [95-50-1] ^	1.1	U	ug/L	1	1.1	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
1,3-Dichlorobenzene [541-73-1] ^	1.1	U	ug/L	1	1.1	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
1,4-Dichlorobenzene [106-46-7] ^	1.0	U	ug/L	1	1.0	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
1-Methylnaphthalene [90-12-0] ^	1.7	U	ug/L	1	1.7	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Benzidine [92-87-5] ^	1.6	U	ug/L	1	1.6	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Benzoic acid [65-85-0] ^	1.0	U	ug/L	1	1.0	50	0I10001	EPA 8270D	09/10/10 14:23	DFM	QV-02
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	

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Description: Mary L. Chappell - WSW-1
Matrix: Water
Project: Mary Chappell Site

Lab Sample ID: C010226-01
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Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	QV-02
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Naphthalene [91-20-3] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Pentachlorophenol [87-86-5] ^	1.8	U	ug/L	1	1.8	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	
Pyridine [110-86-1] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 14:23	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*54*	*1*	*100*	*54 %*	*10-179*	*0I10001*	*EPA 8270D*	*09/10/10 14:23*	*DFM*	
2-Fluorobiphenyl	*30*	*1*	*50.0*	*60 %*	*10-149*	*0I10001*	*EPA 8270D*	*09/10/10 14:23*	*DFM*	
2-Fluorophenol	*39*	*1*	*100*	*39 %*	*10-110*	*0I10001*	*EPA 8270D*	*09/10/10 14:23*	*DFM*	
Nitrobenzene-d5	*29*	*1*	*50.0*	*58 %*	*10-149*	*0I10001*	*EPA 8270D*	*09/10/10 14:23*	*DFM*	
Phenol-d5	*34*	*1*	*100*	*34 %*	*10-88*	*0I10001*	*EPA 8270D*	*09/10/10 14:23*	*DFM*	
Terphenyl-d14	*51*	*1*	*50.0*	*101 %*	*10-188*	*0I10001*	*EPA 8270D*	*09/10/10 14:23*	*DFM*	

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Description: Mary L. Chappell - WSW-1
Matrix: Water
Project: Mary Chappell Site

Lab Sample ID: C010226-01
Sampled: 09/08/10 13:10
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	OI10009	EPA 8081B	09/10/10 21:15	REF	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	OI10009	EPA 8081B	09/10/10 21:15	REF	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	OI10009	EPA 8081B	09/10/10 21:15	REF	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	OI10009	EPA 8081B	09/10/10 21:15	REF	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	OI10009	EPA 8081B	09/10/10 21:15	REF	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	OI10009	EPA 8081B	09/10/10 21:15	REF	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	OI10009	EPA 8081B	09/10/10 21:15	REF	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	OI10009	EPA 8081B	09/10/10 21:15	REF	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	OI10009	EPA 8081B	09/10/10 21:15	REF	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	OI10009	EPA 8081B	09/10/10 21:15	REF	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	OI10009	EPA 8081B	09/10/10 21:15	REF	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	OI10009	EPA 8081B	09/10/10 21:15	REF	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	OI10009	EPA 8081B	09/10/10 21:15	REF	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	OI10009	EPA 8081B	09/10/10 21:15	REF	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	OI10009	EPA 8081B	09/10/10 21:15	REF	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	OI10009	EPA 8081B	09/10/10 21:15	REF	
Endrin ketone [53494-70-5] ^	0.012	U	ug/L	1	0.012	0.050	OI10009	EPA 8081B	09/10/10 21:15	REF	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	OI10009	EPA 8081B	09/10/10 21:15	REF	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	OI10009	EPA 8081B	09/10/10 21:15	REF	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	OI10009	EPA 8081B	09/10/10 21:15	REF	
Isodrin [465-73-6] ^	0.013	U	ug/L	1	0.013	0.050	OI10009	EPA 8081B	09/10/10 21:15	REF	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	OI10009	EPA 8081B	09/10/10 21:15	REF	
Mirex [2385-85-5] ^	0.016	U	ug/L	1	0.016	0.050	OI10009	EPA 8081B	09/10/10 21:15	REF	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	OI10009	EPA 8081B	09/10/10 21:15	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.2*	*1*	*1.00*	*120 %*	*44-134*	*OI10009*	*EPA 8081B*	*09/10/10 21:15*	*REF*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*110 %*	*37-149*	*OI10009*	*EPA 8081B*	*09/10/10 21:15*	*REF*	

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Description: Mary L. Chappell - WSW-1
Matrix: Water
Project: Mary Chappell Site

Lab Sample ID: C010226-01
Sampled: 09/08/10 13:10
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0I15010	EPA 7470A	09/15/10 17:11	NLH	

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Description: Mary L. Chappell - WSW-1
Matrix: Water
Project: Mary Chappell Site

Lab Sample ID: C010226-01
Sampled: 09/08/10 13:10
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	OI10040	EPA 6020A	09/14/10 12:47	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	OI09018	EPA 6010C	09/10/10 12:39	JDH	
Beryllium [7440-41-7] ^	**0.276**	J	ug/L	1	0.100	1.00	OI09018	EPA 6010C	09/10/10 12:39	JDH	
Cadmium [7440-43-9] ^	**0.370**	J	ug/L	1	0.360	1.00	OI09018	EPA 6010C	09/10/10 12:39	JDH	
Chromium [7440-47-3] ^	**1.86**	JB	ug/L	1	1.00	10.0	OI09018	EPA 6010C	09/10/10 12:39	JDH	J-01
Copper [7440-50-8] ^	**108**		ug/L	1	1.60	10.0	OI09018	EPA 6010C	09/10/10 12:39	JDH	
Manganese [7439-96-5] ^	**4.30**	J	ug/L	1	1.10	10.0	OI09018	EPA 6010C	09/10/10 12:39	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	OI09018	EPA 6010C	09/10/10 12:39	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	OI09018	EPA 6010C	09/10/10 12:39	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	OI09018	EPA 6010C	09/10/10 12:39	JDH	
Thallium [7440-28-0] ^	**0.612**	JB	ug/L	1	0.110	1.00	OI10040	EPA 6020A	09/14/10 12:47	VLO	J-01
Zinc [7440-66-6] ^	**32.0**		ug/L	1	3.80	10.0	OI09018	EPA 6010C	09/10/10 12:39	JDH	

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Description: Mary L. Chappell - WSW-1
Matrix: Water
Project: Mary Chappell Site

Lab Sample ID: C010226-01
Sampled: 09/08/10 13:10
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226

Metals (acid extractable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Lead [7439-92-1] ^	**67.7**		ug/L	1	1.90	10.0	0I09018	EPA 6010C	09/10/10 12:39	JDH	

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Description: Mary L. Chappell - WSW-1
Matrix: Water
Project: Mary Chappell Site

Lab Sample ID: C010226-01
Sampled: 09/08/10 13:10
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226

Microbiological Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MRL	Batch	Method	Analyzed	By	Notes
Coliform, Total [ECL-0039] ^	Absent		[blank]	1	1.0	0I09013	Colilert 18-9223B	09/09/10 12:14	ALT	
Escherichia coli [68583-22-2] ^	Absent		[blank]	1	1.0	0I09013	coli, Colilert 18 922:	09/09/10 12:14	ALT	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: Mark Chappell - WSW-2
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C010226-02
Sampled: 09/08/10 10:10
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226

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	0I10007	EPA 8260B	09/10/10 20:00	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.20	U	ug/L	1	0.20	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.25	U	ug/L	1	0.25	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.94	U	ug/L	1	0.94	5.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
2-Chlorotoluene [95-49-8] ^	0.20	U	ug/L	1	0.20	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
4-Chlorotoluene [106-43-4] ^	0.25	U	ug/L	1	0.25	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
4-Isopropyltoluene [99-87-6] ^	0.26	U	ug/L	1	0.26	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
Bromobenzene [108-86-1] ^	0.28	U	ug/L	1	0.28	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
Isopropylbenzene [98-82-8] ^	0.24	U	ug/L	1	0.24	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.48	U	ug/L	1	0.48	2.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	

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Description: Mark Chappell - WSW-2
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C010226-02
Sampled: 09/08/10 10:10
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226

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	0I10007	EPA 8260B	09/10/10 20:00	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
n-Butyl Benzene [104-51-8] ^	0.20	U	ug/L	1	0.20	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
n-Propyl Benzene [103-65-1] ^	0.30	U	ug/L	1	0.30	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
o-Xylene [95-47-6] ^	0.27	U	ug/L	1	0.27	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
sec-Butylbenzene [135-98-8] ^	0.24	U	ug/L	1	0.24	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
tert-Butylbenzene [98-06-6] ^	0.28	U	ug/L	1	0.28	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	0I10007	EPA 8260B	09/10/10 20:00	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*103 %*	*51-122*	*0I10007*	*EPA 8260B*	*09/10/10 20:00*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*95 %*	*68-117*	*0I10007*	*EPA 8260B*	*09/10/10 20:00*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*97 %*	*69-110*	*0I10007*	*EPA 8260B*	*09/10/10 20:00*	*JKG*	

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Description: Mark Chappell - WSW-2
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C010226-02
Sampled: 09/08/10 10:10
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,2,4-Trichlorobenzene [120-82-1] ^	1.2	U	ug/L	1	1.2	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
1,2-Dichlorobenzene [95-50-1] ^	1.1	U	ug/L	1	1.1	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
1,3-Dichlorobenzene [541-73-1] ^	1.1	U	ug/L	1	1.1	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
1,4-Dichlorobenzene [106-46-7] ^	1.0	U	ug/L	1	1.0	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
1-Methylnaphthalene [90-12-0] ^	1.7	U	ug/L	1	1.7	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Benzidine [92-87-5] ^	1.6	U	ug/L	1	1.6	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Benzoic acid [65-85-0] ^	1.0	U	ug/L	1	1.0	50	0I10001	EPA 8270D	09/10/10 14:56	DFM	QV-02
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	

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Description: Mark Chappell - WSW-2
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C010226-02
Sampled: 09/08/10 10:10
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	QV-02
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Naphthalene [91-20-3] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Pentachlorophenol [87-86-5] ^	1.8	U	ug/L	1	1.8	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	
Pyridine [110-86-1] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 14:56	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*49*	*1*	*100*	*49 %*	*10-179*	*0I10001*	*EPA 8270D*	*09/10/10 14:56*	*DFM*	
2-Fluorobiphenyl	*27*	*1*	*50.0*	*53 %*	*10-149*	*0I10001*	*EPA 8270D*	*09/10/10 14:56*	*DFM*	
2-Fluorophenol	*36*	*1*	*100*	*36 %*	*10-110*	*0I10001*	*EPA 8270D*	*09/10/10 14:56*	*DFM*	
Nitrobenzene-d5	*26*	*1*	*50.0*	*52 %*	*10-149*	*0I10001*	*EPA 8270D*	*09/10/10 14:56*	*DFM*	
Phenol-d5	*31*	*1*	*100*	*31 %*	*10-88*	*0I10001*	*EPA 8270D*	*09/10/10 14:56*	*DFM*	
Terphenyl-d14	*45*	*1*	*50.0*	*91 %*	*10-188*	*0I10001*	*EPA 8270D*	*09/10/10 14:56*	*DFM*	

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Description: Mark Chappell - WSW-2
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C010226-02
Sampled: 09/08/10 10:10
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0I10009	EPA 8081B	09/10/10 21:28	REF	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0I10009	EPA 8081B	09/10/10 21:28	REF	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0I10009	EPA 8081B	09/10/10 21:28	REF	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0I10009	EPA 8081B	09/10/10 21:28	REF	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0I10009	EPA 8081B	09/10/10 21:28	REF	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0I10009	EPA 8081B	09/10/10 21:28	REF	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0I10009	EPA 8081B	09/10/10 21:28	REF	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	0I10009	EPA 8081B	09/10/10 21:28	REF	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	0I10009	EPA 8081B	09/10/10 21:28	REF	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0I10009	EPA 8081B	09/10/10 21:28	REF	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0I10009	EPA 8081B	09/10/10 21:28	REF	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0I10009	EPA 8081B	09/10/10 21:28	REF	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0I10009	EPA 8081B	09/10/10 21:28	REF	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0I10009	EPA 8081B	09/10/10 21:28	REF	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0I10009	EPA 8081B	09/10/10 21:28	REF	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0I10009	EPA 8081B	09/10/10 21:28	REF	
Endrin ketone [53494-70-5] ^	0.012	U	ug/L	1	0.012	0.050	0I10009	EPA 8081B	09/10/10 21:28	REF	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0I10009	EPA 8081B	09/10/10 21:28	REF	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0I10009	EPA 8081B	09/10/10 21:28	REF	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0I10009	EPA 8081B	09/10/10 21:28	REF	
Isodrin [465-73-6] ^	0.013	U	ug/L	1	0.013	0.050	0I10009	EPA 8081B	09/10/10 21:28	REF	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	0I10009	EPA 8081B	09/10/10 21:28	REF	
Mirex [2385-85-5] ^	0.016	U	ug/L	1	0.016	0.050	0I10009	EPA 8081B	09/10/10 21:28	REF	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	0I10009	EPA 8081B	09/10/10 21:28	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.3*	*1*	*1.00*	*129 %*	*44-134*	*0I10009*	*EPA 8081B*	*09/10/10 21:28*	*REF*	
Decachlorobiphenyl	*1.0*	*1*	*1.00*	*103 %*	*37-149*	*0I10009*	*EPA 8081B*	*09/10/10 21:28*	*REF*	

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Description: Mark Chappell - WSW-2
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C010226-02
Sampled: 09/08/10 10:10
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0I15010	EPA 7470A	09/15/10 17:15	NLH	

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Description: Mark Chappell - WSW-2
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Project: Mary Chappell Site

Lab Sample ID: C010226-02
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Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	0I10040	EPA 6020A	09/14/10 12:50	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	0I09018	EPA 6010C	09/10/10 12:36	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	0I09018	EPA 6010C	09/10/10 12:36	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	0I09018	EPA 6010C	09/10/10 12:36	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	0I09018	EPA 6010C	09/10/10 12:36	JDH	
Copper [7440-50-8] ^	**99.4**		ug/L	1	1.60	10.0	0I09018	EPA 6010C	09/10/10 12:36	JDH	
Manganese [7439-96-5] ^	**4.69**	J	ug/L	1	1.10	10.0	0I09018	EPA 6010C	09/10/10 12:36	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	0I09018	EPA 6010C	09/10/10 12:36	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	0I09018	EPA 6010C	09/10/10 12:36	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	0I09018	EPA 6010C	09/10/10 12:36	JDH	
Thallium [7440-28-0] ^	**0.480**	JB	ug/L	1	0.110	1.00	0I10040	EPA 6020A	09/14/10 12:50	VLO	J-01
Zinc [7440-66-6] ^	**26.3**		ug/L	1	3.80	10.0	0I09018	EPA 6010C	09/10/10 12:36	JDH	

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Description: Mark Chappell - WSW-2
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C010226-02
Sampled: 09/08/10 10:10
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226

Metals (acid extractable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Lead [7439-92-1] ^	**8.28**	J	ug/L	1	1.90	10.0	0I09018	EPA 6010C	09/10/10 12:36	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: William Brown WSW-5
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C010226-03
Sampled: 09/08/10 10:50
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226

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	0I11006	EPA 8260B	09/11/10 20:59	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.20	U	ug/L	1	0.20	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.25	U	ug/L	1	0.25	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.94	U	ug/L	1	0.94	5.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
2-Chlorotoluene [95-49-8] ^	0.20	U	ug/L	1	0.20	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
4-Chlorotoluene [106-43-4] ^	0.25	U	ug/L	1	0.25	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
4-Isopropyltoluene [99-87-6] ^	0.26	U	ug/L	1	0.26	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
Bromobenzene [108-86-1] ^	0.28	U	ug/L	1	0.28	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
Isopropylbenzene [98-82-8] ^	0.24	U	ug/L	1	0.24	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.48	U	ug/L	1	0.48	2.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	

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Description: William Brown WSW-5
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C010226-03
Sampled: 09/08/10 10:50
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226

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	0I11006	EPA 8260B	09/11/10 20:59	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
n-Butyl Benzene [104-51-8] ^	0.20	U	ug/L	1	0.20	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
n-Propyl Benzene [103-65-1] ^	0.30	U	ug/L	1	0.30	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
o-Xylene [95-47-6] ^	0.27	U	ug/L	1	0.27	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
sec-Butylbenzene [135-98-8] ^	0.24	U	ug/L	1	0.24	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
tert-Butylbenzene [98-06-6] ^	0.28	U	ug/L	1	0.28	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
Trichloroethene [79-01-6] ^	**1.2**		ug/L	1	0.38	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	0I11006	EPA 8260B	09/11/10 20:59	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*51-122*	*0I11006*	*EPA 8260B*	*09/11/10 20:59*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*102 %*	*68-117*	*0I11006*	*EPA 8260B*	*09/11/10 20:59*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*98 %*	*69-110*	*0I11006*	*EPA 8260B*	*09/11/10 20:59*	*JKG*	

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Description: William Brown WSW-5 | **Lab Sample ID:** C010226-03 | **Received:** 09/08/10 15:25

Matrix: Ground Water | **Sampled:** 09/08/10 10:50 | **Work Order:** C010226

Project: Mary Chappell Site | **Sampled By:** Gerald Paul

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,2,4-Trichlorobenzene [120-82-1] ^	1.2	U	ug/L	1	1.2	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
1,2-Dichlorobenzene [95-50-1] ^	1.1	U	ug/L	1	1.1	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
1,3-Dichlorobenzene [541-73-1] ^	1.1	U	ug/L	1	1.1	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
1,4-Dichlorobenzene [106-46-7] ^	1.0	U	ug/L	1	1.0	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
1-Methylnaphthalene [90-12-0] ^	1.7	U	ug/L	1	1.7	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Benzidine [92-87-5] ^	1.6	U	ug/L	1	1.6	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Benzoic acid [65-85-0] ^	1.0	U	ug/L	1	1.0	50	0I10001	EPA 8270D	09/10/10 15:28	DFM	QV-02
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	

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Description: William Brown WSW-5
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C010226-03
Sampled: 09/08/10 10:50
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	QV-02
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Naphthalene [91-20-3] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Pentachlorophenol [87-86-5] ^	1.8	U	ug/L	1	1.8	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	
Pyridine [110-86-1] ^	1.3	U	ug/L	1	1.3	10	0I10001	EPA 8270D	09/10/10 15:28	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*51*	*1*	*100*	*51 %*	*10-179*	*0I10001*	*EPA 8270D*	*09/10/10 15:28*	*DFM*	
2-Fluorobiphenyl	*29*	*1*	*50.0*	*57 %*	*10-149*	*0I10001*	*EPA 8270D*	*09/10/10 15:28*	*DFM*	
2-Fluorophenol	*36*	*1*	*100*	*36 %*	*10-110*	*0I10001*	*EPA 8270D*	*09/10/10 15:28*	*DFM*	
Nitrobenzene-d5	*27*	*1*	*50.0*	*54 %*	*10-149*	*0I10001*	*EPA 8270D*	*09/10/10 15:28*	*DFM*	
Phenol-d5	*32*	*1*	*100*	*32 %*	*10-88*	*0I10001*	*EPA 8270D*	*09/10/10 15:28*	*DFM*	
Terphenyl-d14	*50*	*1*	*50.0*	*99 %*	*10-188*	*0I10001*	*EPA 8270D*	*09/10/10 15:28*	*DFM*	

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Description: William Brown WSW-5
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C010226-03
Sampled: 09/08/10 10:50
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	OI10009	EPA 8081B	09/10/10 21:42	REF	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	OI10009	EPA 8081B	09/10/10 21:42	REF	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	OI10009	EPA 8081B	09/10/10 21:42	REF	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	OI10009	EPA 8081B	09/10/10 21:42	REF	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	OI10009	EPA 8081B	09/10/10 21:42	REF	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	OI10009	EPA 8081B	09/10/10 21:42	REF	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	OI10009	EPA 8081B	09/10/10 21:42	REF	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	OI10009	EPA 8081B	09/10/10 21:42	REF	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	OI10009	EPA 8081B	09/10/10 21:42	REF	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	OI10009	EPA 8081B	09/10/10 21:42	REF	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	OI10009	EPA 8081B	09/10/10 21:42	REF	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	OI10009	EPA 8081B	09/10/10 21:42	REF	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	OI10009	EPA 8081B	09/10/10 21:42	REF	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	OI10009	EPA 8081B	09/10/10 21:42	REF	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	OI10009	EPA 8081B	09/10/10 21:42	REF	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	OI10009	EPA 8081B	09/10/10 21:42	REF	
Endrin ketone [53494-70-5] ^	0.012	U	ug/L	1	0.012	0.050	OI10009	EPA 8081B	09/10/10 21:42	REF	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	OI10009	EPA 8081B	09/10/10 21:42	REF	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	OI10009	EPA 8081B	09/10/10 21:42	REF	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	OI10009	EPA 8081B	09/10/10 21:42	REF	
Isodrin [465-73-6] ^	0.013	U	ug/L	1	0.013	0.050	OI10009	EPA 8081B	09/10/10 21:42	REF	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	OI10009	EPA 8081B	09/10/10 21:42	REF	
Mirex [2385-85-5] ^	0.016	U	ug/L	1	0.016	0.050	OI10009	EPA 8081B	09/10/10 21:42	REF	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	OI10009	EPA 8081B	09/10/10 21:42	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.2*	*1*	*1.00*	*118 %*	*44-134*	*OI10009*	*EPA 8081B*	*09/10/10 21:42*	*REF*	
Decachlorobiphenyl	*1.2*	*1*	*1.00*	*116 %*	*37-149*	*OI10009*	*EPA 8081B*	*09/10/10 21:42*	*REF*	

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Description: William Brown WSW-5
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C010226-03
Sampled: 09/08/10 10:50
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0I15010	EPA 7470A	09/15/10 17:18	NLH	

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Description: William Brown WSW-5
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C010226-03
Sampled: 09/08/10 10:50
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	0I10040	EPA 6020A	09/14/10 12:54	VLO	
Arsenic [7440-38-2] ^	**3.43**	J	ug/L	1	2.80	10.0	0I09018	EPA 6010C	09/10/10 12:44	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	0I09018	EPA 6010C	09/10/10 12:44	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	0I09018	EPA 6010C	09/10/10 12:44	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	0I09018	EPA 6010C	09/10/10 12:44	JDH	
Copper [7440-50-8] ^	**14.3**		ug/L	1	1.60	10.0	0I09018	EPA 6010C	09/10/10 12:44	JDH	
Manganese [7439-96-5] ^	1.10	U	ug/L	1	1.10	10.0	0I09018	EPA 6010C	09/10/10 12:44	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	0I09018	EPA 6010C	09/10/10 12:44	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	0I09018	EPA 6010C	09/10/10 12:44	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	0I09018	EPA 6010C	09/10/10 12:44	JDH	
Thallium [7440-28-0] ^	**0.402**	JB	ug/L	1	0.110	1.00	0I10040	EPA 6020A	09/14/10 12:54	VLO	J-01
Zinc [7440-66-6] ^	**5.37**	J	ug/L	1	3.80	10.0	0I09018	EPA 6010C	09/10/10 12:44	JDH	

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Description: William Brown WSW-5
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C010226-03
Sampled: 09/08/10 10:50
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226

Metals (acid extractable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	0I09018	EPA 6010C	09/10/10 12:44	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: GP-5 (0-5')
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010226-04
Sampled: 09/07/10 13:20
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226
% Solids: 96.7

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] ^	0.00017	U	mg/kg dry	1	0.00017	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.00019	U	mg/kg dry	1	0.00019	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.00021	U	mg/kg dry	1	0.00021	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.00024	U	mg/kg dry	1	0.00024	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
1,1-Dichloroethane [75-34-3] ^	0.00026	U	mg/kg dry	1	0.00026	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
1,1-Dichloroethene [75-35-4] ^	0.00031	U	mg/kg dry	1	0.00031	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
1,1-Dichloropropene [563-58-6] ^	0.00033	U	mg/kg dry	1	0.00033	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.00022	U	mg/kg dry	1	0.00022	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.00035	U	mg/kg dry	1	0.00035	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.00028	U	mg/kg dry	1	0.00028	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.00018	U	mg/kg dry	1	0.00018	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.00082	U	mg/kg dry	1	0.00082	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
1,2-Dibromoethane [106-93-4] ^	0.00048	U	mg/kg dry	1	0.00048	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.00028	U	mg/kg dry	1	0.00028	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
1,2-Dichloroethane [107-06-2] ^	0.00039	U	mg/kg dry	1	0.00039	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
1,2-Dichloropropane [78-87-5] ^	0.00027	U	mg/kg dry	1	0.00027	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.00021	U	mg/kg dry	1	0.00021	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.00023	U	mg/kg dry	1	0.00023	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
1,3-Dichloropropane [142-28-9] ^	0.00030	U	mg/kg dry	1	0.00030	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.00021	U	mg/kg dry	1	0.00021	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
2,2-Dichloropropane [594-20-7] ^	0.00024	U	mg/kg dry	1	0.00024	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
2-Butanone [78-93-3] ^	0.00081	U	mg/kg dry	1	0.00081	0.0052	0I15005	EPA 8260B	09/15/10 17:41	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.00051	U	mg/kg dry	1	0.00051	0.0052	0I15005	EPA 8260B	09/15/10 17:41	JKG	
2-Chlorotoluene [95-49-8] ^	0.00019	U	mg/kg dry	1	0.00019	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
2-Hexanone [591-78-6] ^	0.00078	U	mg/kg dry	1	0.00078	0.0052	0I15005	EPA 8260B	09/15/10 17:41	JKG	
4-Chlorotoluene [106-43-4] ^	0.00027	U	mg/kg dry	1	0.00027	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
4-Isopropyltoluene [99-87-6] ^	**0.00087**	J	mg/kg dry	1	0.00017	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.00059	U	mg/kg dry	1	0.00059	0.0052	0I15005	EPA 8260B	09/15/10 17:41	JKG	
Acetone [67-64-1] ^	0.0012	U	mg/kg dry	1	0.0012	0.0052	0I15005	EPA 8260B	09/15/10 17:41	JKG	
Benzene [71-43-2] ^	0.00018	U	mg/kg dry	1	0.00018	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
Bromobenzene [108-86-1] ^	0.00023	U	mg/kg dry	1	0.00023	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
Bromochloromethane [74-97-5] ^	0.00042	U	mg/kg dry	1	0.00042	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
Bromodichloromethane [75-27-4] ^	0.00025	U	mg/kg dry	1	0.00025	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
Bromoform [75-25-2] ^	0.00047	U	mg/kg dry	1	0.00047	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
Bromomethane [74-83-9] ^	0.00024	U	mg/kg dry	1	0.00024	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
Carbon disulfide [75-15-0] ^	0.00040	U	mg/kg dry	1	0.00040	0.0052	0I15005	EPA 8260B	09/15/10 17:41	JKG	
Carbon Tetrachloride [56-23-5] ^	0.00023	U	mg/kg dry	1	0.00023	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
Chlorobenzene [108-90-7] ^	0.00018	U	mg/kg dry	1	0.00018	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
Chloroethane [75-00-3] ^	0.00026	U	mg/kg dry	1	0.00026	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
Chloroform [67-66-3] ^	0.00018	U	mg/kg dry	1	0.00018	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
Chloromethane [74-87-3] ^	0.00016	U	mg/kg dry	1	0.00016	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.00024	U	mg/kg dry	1	0.00024	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.00013	U	mg/kg dry	1	0.00013	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
Dibromochloromethane [124-48-1] ^	0.00036	U	mg/kg dry	1	0.00036	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
Dibromomethane [74-95-3] ^	0.00032	U	mg/kg dry	1	0.00032	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.00047	U	mg/kg dry	1	0.00047	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
Ethylbenzene [100-41-4] ^	0.00021	U	mg/kg dry	1	0.00021	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
Hexachlorobutadiene [87-68-3] ^	0.00036	U	mg/kg dry	1	0.00036	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
Isopropylbenzene [98-82-8] ^	0.00016	U	mg/kg dry	1	0.00016	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.00038	U	mg/kg dry	1	0.00038	0.0021	0I15005	EPA 8260B	09/15/10 17:41	JKG	
Methylene Chloride [75-09-2] ^	0.00058	U	mg/kg dry	1	0.00058	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	

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Description: GP-5 (0-5')
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010226-04
Sampled: 09/07/10 13:20
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226
% Solids: 96.7

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
Methyl-tert-Butyl Ether [1634-04-4] ^	0.00031	U	mg/kg dry	1	0.00031	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
Naphthalene [91-20-3] ^	0.00025	U	mg/kg dry	1	0.00025	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
n-Butyl Benzene [104-51-8] ^	0.00023	U	mg/kg dry	1	0.00023	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
n-Propyl Benzene [103-65-1] ^	0.00019	U	mg/kg dry	1	0.00019	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
o-Xylene [95-47-6] ^	0.00023	U	mg/kg dry	1	0.00023	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
sec-Butylbenzene [135-98-8] ^	0.00023	U	mg/kg dry	1	0.00023	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
Styrene [100-42-5] ^	0.00018	U	mg/kg dry	1	0.00018	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
tert-Butylbenzene [98-06-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
Tetrachloroethene [127-18-4] ^	0.00029	U	mg/kg dry	1	0.00029	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
Toluene [108-88-3] ^	0.00021	U	mg/kg dry	1	0.00021	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.00038	U	mg/kg dry	1	0.00038	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.00040	U	mg/kg dry	1	0.00040	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
Trichloroethene [79-01-6] ^	0.00028	U	mg/kg dry	1	0.00028	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
Trichlorofluoromethane [75-69-4] ^	0.00027	U	mg/kg dry	1	0.00027	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
Vinyl chloride [75-01-4] ^	0.00025	U	mg/kg dry	1	0.00025	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	
Xylenes (Total) [1330-20-7] ^	0.00058	U	mg/kg dry	1	0.00058	0.0010	0I15005	EPA 8260B	09/15/10 17:41	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*57*	*1*	*50.0*	*113 %*	*61-118*	*0I15005*	*EPA 8260B*	*09/15/10 17:41*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*101 %*	*66-114*	*0I15005*	*EPA 8260B*	*09/15/10 17:41*	*JKG*	
Toluene-d8	*51*	*1*	*50.0*	*102 %*	*63-118*	*0I15005*	*EPA 8260B*	*09/15/10 17:41*	*JKG*	

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Lab Sample ID: C010226-04
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Received: 09/08/10 15:25
Work Order: C010226
% Solids: 96.7

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
.alpha.-Pinene [000080-56-8]	0.088	J	mg/kg dry	1			0I09003	EPA 8260B	09/09/10 18:00	JKG	
1,3,6-Heptatriene, 2,5,5-tr... [029548-02-5]	0.0046	J	mg/kg dry	1			0I15005	EPA 8260B	09/15/10 17:41	JKG	
1R-.alpha.-Pinene [007785-70-8]	0.049	J	mg/kg dry	1			0I15005	EPA 8260B	09/15/10 17:41	JKG	
Bicyclo[2.2.1]heptan-2-ol, ... [002217-02-9]	0.0076	J	mg/kg dry	1			0I09003	EPA 8260B	09/09/10 18:00	JKG	
Bicyclo[2.2.1]heptan-2-ol, ... [002217-02-9]	0.0066	J	mg/kg dry	1			0I15005	EPA 8260B	09/15/10 17:41	JKG	
Bicyclo[2.2.1]heptan-2-one,... [000464-48-2]	0.0073	J	mg/kg dry	1			0I09003	EPA 8260B	09/09/10 18:00	JKG	
Bicyclo[4.1.0]hept-2-ene, 3... [000554-61-0]	0.010	J	mg/kg dry	1			0I15005	EPA 8260B	09/15/10 17:41	JKG	
Camphene [000079-92-5]	0.014	J	mg/kg dry	1			0I09003	EPA 8260B	09/09/10 18:00	JKG	
Camphor [000076-22-2]	0.0068	J	mg/kg dry	1			0I15005	EPA 8260B	09/15/10 17:41	JKG	
Carbon Dioxide [124-38-9]	0.19	J	mg/kg dry	1			0I09003	EPA 8260B	09/09/10 18:00	JKG	
Carbon Dioxide [124-38-9]	0.19	J	mg/kg dry	1			0I15005	EPA 8260B	09/15/10 17:41	JKG	
Cyclohexene, 1-methyl-4-(1-... (01) [000586-62-9]	0.010	J	mg/kg dry	1			0I09003	EPA 8260B	09/09/10 18:00	JKG	
Cyclohexene, 1-methyl-4-(1-... (02) [000586-62-9]	0.011	J	mg/kg dry	1			0I09003	EPA 8260B	09/09/10 18:00	JKG	
Cyclopentasiloxane, decamet... [000541-02-6]	0.0067	J	mg/kg dry	1			0I15005	EPA 8260B	09/15/10 17:41	JKG	
D-Limonene [5989-27-5]	0.019	J	mg/kg dry	1			0I09003	EPA 8260B	09/09/10 18:00	JKG	
L-Fenchone [000126-21-6]	0.0042	J	mg/kg dry	1			0I09003	EPA 8260B	09/09/10 18:00	JKG	
Limonene [000138-86-3]	0.0050	J	mg/kg dry	1			0I15005	EPA 8260B	09/15/10 17:41	JKG	

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% Solids: 96.7

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,2,4-Trichlorobenzene [120-82-1] ^	0.024	U	mg/kg dry	1	0.024	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
1,2-Dichlorobenzene [95-50-1] ^	0.033	U	mg/kg dry	1	0.033	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
1,3-Dichlorobenzene [541-73-1] ^	0.031	U	mg/kg dry	1	0.031	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
1,4-Dichlorobenzene [106-46-7] ^	0.028	U	mg/kg dry	1	0.028	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
1-Methylnaphthalene [90-12-0] ^	0.036	U	mg/kg dry	1	0.036	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	0.034	U	mg/kg dry	1	0.034	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	0.033	U	mg/kg dry	1	0.033	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
2,4-Dichlorophenol [120-83-2] ^	0.026	U	mg/kg dry	1	0.026	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
2,4-Dimethylphenol [105-67-9] ^	0.061	U	mg/kg dry	1	0.061	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
2,4-Dinitrophenol [51-28-5] ^	0.049	U	mg/kg dry	1	0.049	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
2,4-Dinitrotoluene [121-14-2] ^	0.032	U	mg/kg dry	1	0.032	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
2,6-Dinitrotoluene [606-20-2] ^	0.026	U	mg/kg dry	1	0.026	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
2-Chloronaphthalene [91-58-7] ^	0.025	U	mg/kg dry	1	0.025	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
2-Chlorophenol [95-57-8] ^	0.030	U	mg/kg dry	1	0.030	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	0.052	U	mg/kg dry	1	0.052	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
2-Methylnaphthalene [91-57-6] ^	0.038	U	mg/kg dry	1	0.038	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
2-Methylphenol [95-48-7] ^	0.039	U	mg/kg dry	1	0.039	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
2-Nitroaniline [88-74-4] ^	0.031	U	mg/kg dry	1	0.031	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
2-Nitrophenol [88-75-5] ^	0.034	U	mg/kg dry	1	0.034	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	0.026	U	mg/kg dry	1	0.026	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	0.043	U	mg/kg dry	1	0.043	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
3-Nitroaniline [99-09-2] ^	0.046	U	mg/kg dry	1	0.046	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	0.026	U	mg/kg dry	1	0.026	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	0.029	U	mg/kg dry	1	0.029	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
4-Chloroaniline [106-47-8] ^	0.031	U	mg/kg dry	1	0.031	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	0.026	U	mg/kg dry	1	0.026	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
4-Nitroaniline [100-01-6] ^	0.061	U	mg/kg dry	1	0.061	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
4-Nitrophenol [100-02-7] ^	0.043	U	mg/kg dry	1	0.043	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Acenaphthene [83-32-9] ^	0.026	U	mg/kg dry	1	0.026	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Acenaphthylene [208-96-8] ^	0.026	U	mg/kg dry	1	0.026	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Anthracene [120-12-7] ^	0.034	U	mg/kg dry	1	0.034	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Benzidine [92-87-5] ^	0.11	U	mg/kg dry	1	0.11	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	QV-01
Benzo(a)anthracene [56-55-3] ^	0.026	U	mg/kg dry	1	0.026	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Benzo(a)pyrene [50-32-8] ^	0.028	U	mg/kg dry	1	0.028	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Benzo(b)fluoranthene [205-99-2] ^	0.028	U	mg/kg dry	1	0.028	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	0.040	U	mg/kg dry	1	0.040	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Benzo(k)fluoranthene [207-08-9] ^	0.028	U	mg/kg dry	1	0.028	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Benzoic acid [65-85-0] ^	0.11	U	mg/kg dry	1	0.11	1.8	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Benzyl alcohol [100-51-6] ^	0.068	U	mg/kg dry	1	0.068	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	0.022	U	mg/kg dry	1	0.022	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	0.052	U	mg/kg dry	1	0.052	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	0.027	U	mg/kg dry	1	0.027	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	0.038	U	mg/kg dry	1	0.038	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Butylbenzylphthalate [85-68-7] ^	0.035	U	mg/kg dry	1	0.035	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	QV-02
Chrysene [218-01-9] ^	0.026	U	mg/kg dry	1	0.026	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	0.042	U	mg/kg dry	1	0.042	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Dibenzofuran [132-64-9] ^	0.026	U	mg/kg dry	1	0.026	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Diethylphthalate [84-66-2] ^	0.026	U	mg/kg dry	1	0.026	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Dimethylphthalate [131-11-3] ^	0.026	U	mg/kg dry	1	0.026	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Di-n-butylphthalate [84-74-2] ^	0.032	U	mg/kg dry	1	0.032	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Di-n-octylphthalate [117-84-0] ^	0.028	U	mg/kg dry	1	0.028	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	

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Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Fluoranthene [206-44-0] ^	0.044	U	mg/kg dry	1	0.044	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Fluorene [86-73-7] ^	0.026	U	mg/kg dry	1	0.026	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Hexachlorobenzene [118-74-1] ^	0.026	U	mg/kg dry	1	0.026	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Hexachlorobutadiene [87-68-3] ^	0.029	U	mg/kg dry	1	0.029	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	0.044	U	mg/kg dry	1	0.044	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Hexachloroethane [67-72-1] ^	0.034	U	mg/kg dry	1	0.034	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	0.039	U	mg/kg dry	1	0.039	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Isophorone [78-59-1] ^	0.017	U	mg/kg dry	1	0.017	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Naphthalene [91-20-3] ^	0.026	U	mg/kg dry	1	0.026	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Nitrobenzene [98-95-3] ^	0.026	U	mg/kg dry	1	0.026	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
N-Nitrosodimethylamine [62-75-9] ^	0.028	U	mg/kg dry	1	0.028	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	0.018	U	mg/kg dry	1	0.018	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	0.027	U	mg/kg dry	1	0.027	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Pentachlorophenol [87-86-5] ^	0.026	U	mg/kg dry	1	0.026	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Phenanthrene [85-01-8] ^	0.027	U	mg/kg dry	1	0.027	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Phenol [108-95-2] ^	0.026	U	mg/kg dry	1	0.026	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Pyrene [129-00-0] ^	0.050	U	mg/kg dry	1	0.050	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	
Pyridine [110-86-1] ^	0.12	U	mg/kg dry	1	0.12	0.34	0I16021	EPA 8270D	09/20/10 18:57	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*3.0*	*1*	*3.45*	*87 %*	*28-130*	*0I16021*	*EPA 8270D*	*09/20/10 18:57*	*DFM*	
2-Fluorobiphenyl	*1.5*	*1*	*1.72*	*85 %*	*56-120*	*0I16021*	*EPA 8270D*	*09/20/10 18:57*	*DFM*	
2-Fluorophenol	*2.5*	*1*	*3.45*	*71 %*	*49-126*	*0I16021*	*EPA 8270D*	*09/20/10 18:57*	*DFM*	
Nitrobenzene-d5	*1.4*	*1*	*1.72*	*79 %*	*50-117*	*0I16021*	*EPA 8270D*	*09/20/10 18:57*	*DFM*	
Phenol-d5	*2.7*	*1*	*3.45*	*79 %*	*56-120*	*0I16021*	*EPA 8270D*	*09/20/10 18:57*	*DFM*	
Terphenyl-d14	*1.9*	*1*	*1.72*	*108 %*	*36-151*	*0I16021*	*EPA 8270D*	*09/20/10 18:57*	*DFM*	

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Description: GP-5 (0-5')
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010226-04
Sampled: 09/07/10 13:20
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226
% Solids: 96.7

Tentatively Identified Compounds by Semivolatile GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1R-.alpha.-Pinene [007785-70-8]	**0.27**	J	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 18:57	DFM	
Cyclohexanemethanol, 4-hydroxy [000080-53-5]	**0.14**	J	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 18:57	DFM	
Ethane, 1,1,2,2-tetrachloro- [000079-34-5]	**0.39**	JB	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 18:57	DFM	B
Ethane, 1,1,2-trichloro- [000079-00-5]	**0.16**	J	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 18:57	DFM	
Tentatively Identified Compounds [NA] ^	0.0	U	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 18:57	DFM	
Unknown (01) [NA]	**0.53**	JB	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 18:57	DFM	B
Unknown (02) [NA]	**0.17**	J	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 18:57	DFM	
Unknown (03) [NA]	**0.32**	J	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 18:57	DFM	

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Description: GP-5 (0-5')
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010226-04
Sampled: 09/07/10 13:20
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226
% Solids: 96.7

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.00033	U	mg/kg dry	1	0.00033	0.0018	OI14011	EPA 8081B	09/16/10 20:33	REF	
4,4'-DDE [72-55-9] ^	0.00042	U	mg/kg dry	1	0.00042	0.0018	OI14011	EPA 8081B	09/16/10 20:33	REF	
4,4'-DDT [50-29-3] ^	0.00054	U	mg/kg dry	1	0.00054	0.0018	OI14011	EPA 8081B	09/16/10 20:33	REF	
Aldrin [309-00-2] ^	0.00037	U	mg/kg dry	1	0.00037	0.0018	OI14011	EPA 8081B	09/16/10 20:33	REF	
alpha-BHC [319-84-6] ^	0.00051	U	mg/kg dry	1	0.00051	0.0018	OI14011	EPA 8081B	09/16/10 20:33	REF	
beta-BHC [319-85-7] ^	0.00073	U	mg/kg dry	1	0.00073	0.0018	OI14011	EPA 8081B	09/16/10 20:33	REF	
Chlordane (tech) [12789-03-6] ^	0.0012	U	mg/kg dry	1	0.0012	0.034	OI14011	EPA 8081B	09/16/10 20:33	REF	
Chlordane-alpha [5103-71-9] ^	0.00048	U	mg/kg dry	1	0.00048	0.0018	OI14011	EPA 8081B	09/16/10 20:33	REF	
Chlordane-gamma [5566-34-7] ^	0.00062	U	mg/kg dry	1	0.00062	0.0018	OI14011	EPA 8081B	09/16/10 20:33	REF	
delta-BHC [319-86-8] ^	0.00031	U	mg/kg dry	1	0.00031	0.0018	OI14011	EPA 8081B	09/16/10 20:33	REF	
Dieldrin [60-57-1] ^	0.00033	U	mg/kg dry	1	0.00033	0.0018	OI14011	EPA 8081B	09/16/10 20:33	REF	
Endosulfan I [959-98-8] ^	0.00042	U	mg/kg dry	1	0.00042	0.0018	OI14011	EPA 8081B	09/16/10 20:33	REF	
Endosulfan II [33213-65-9] ^	0.00040	U	mg/kg dry	1	0.00040	0.0018	OI14011	EPA 8081B	09/16/10 20:33	REF	
Endosulfan sulfate [1031-07-8] ^	0.00050	U	mg/kg dry	1	0.00050	0.0018	OI14011	EPA 8081B	09/16/10 20:33	REF	
Endrin [72-20-8] ^	0.00040	U	mg/kg dry	1	0.00040	0.0018	OI14011	EPA 8081B	09/16/10 20:33	REF	
Endrin aldehyde [7421-93-4] ^	0.00035	U	mg/kg dry	1	0.00035	0.0018	OI14011	EPA 8081B	09/16/10 20:33	REF	
Endrin ketone [53494-70-5] ^	0.00031	U	mg/kg dry	1	0.00031	0.0018	OI14011	EPA 8081B	09/16/10 20:33	REF	
gamma-BHC [58-89-9] ^	0.00043	U	mg/kg dry	1	0.00043	0.0018	OI14011	EPA 8081B	09/16/10 20:33	REF	
Heptachlor [76-44-8] ^	0.00048	U	mg/kg dry	1	0.00048	0.0018	OI14011	EPA 8081B	09/16/10 20:33	REF	
Heptachlor epoxide [1024-57-3] ^	0.00044	U	mg/kg dry	1	0.00044	0.0018	OI14011	EPA 8081B	09/16/10 20:33	REF	
Isodrin [465-73-6] ^	0.00037	U	mg/kg dry	1	0.00037	0.0018	OI14011	EPA 8081B	09/16/10 20:33	REF	
Methoxychlor [72-43-5] ^	0.00043	U	mg/kg dry	1	0.00043	0.0018	OI14011	EPA 8081B	09/16/10 20:33	REF	
Mirex [2385-85-5] ^	0.00058	U	mg/kg dry	1	0.00058	0.0018	OI14011	EPA 8081B	09/16/10 20:33	REF	
Toxaphene [8001-35-2] ^	0.010	U	mg/kg dry	1	0.010	0.018	OI14011	EPA 8081B	09/16/10 20:33	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.054*	*1*	*0.0345*	*156 %*	*59-137*	*OI14011*	*EPA 8081B*	*09/16/10 20:33*	*REF*	*QS-03*
Decachlorobiphenyl	*0.046*	*1*	*0.0345*	*134 %*	*60-140*	*OI14011*	*EPA 8081B*	*09/16/10 20:33*	*REF*	

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Description: GP-5 (0-5')
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010226-04
Sampled: 09/07/10 13:20
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226
% Solids: 96.7

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.114	U	mg/kg dry	1	0.114	1.03	0I14018	EPA 6010C	09/15/10 10:38	JDH	
Arsenic [7440-38-2] ^	**0.739**		mg/kg dry	1	0.103	0.517	0I14018	EPA 6010C	09/15/10 10:38	JDH	
Beryllium [7440-41-7] ^	0.0124	U	mg/kg dry	1	0.0124	0.0517	0I14018	EPA 6010C	09/15/10 10:38	JDH	
Cadmium [7440-43-9] ^	0.00993	U	mg/kg dry	1	0.00993	0.0517	0I14018	EPA 6010C	09/15/10 10:38	JDH	
Chromium [7440-47-3] ^	**2.16**		mg/kg dry	1	0.103	0.517	0I14018	EPA 6010C	09/15/10 10:38	JDH	
Copper [7440-50-8] ^	**0.970**		mg/kg dry	1	0.197	0.517	0I14018	EPA 6010C	09/15/10 10:38	JDH	
Lead [7439-92-1] ^	**2.08**		mg/kg dry	1	0.124	0.517	0I14018	EPA 6010C	09/15/10 10:38	JDH	
Manganese [7439-96-5] ^	**7.53**		mg/kg dry	1	0.103	0.517	0I14018	EPA 6010C	09/15/10 10:38	JDH	
Mercury [7439-97-6] ^	0.00496	U	mg/kg dry	1	0.00496	0.0103	0I14017	EPA 7471B	09/14/10 16:44	NLH	
Nickel [7440-02-0] ^	**0.691**	J	mg/kg dry	1	0.372	2.59	0I14018	EPA 6010C	09/15/10 10:38	JDH	
Selenium [7782-49-2] ^	**0.144**	JB	mg/kg dry	1	0.103	0.517	0I14018	EPA 6010C	09/15/10 10:38	JDH	J-01
Silver [7440-22-4] ^	0.103	U	mg/kg dry	1	0.103	0.517	0I14018	EPA 6010C	09/15/10 10:38	JDH	
Thallium [7440-28-0] ^	**0.379**	J	mg/kg dry	1	0.103	0.517	0I14018	EPA 6010C	09/15/10 10:38	JDH	
Zinc [7440-66-6] ^	**1.62**	J	mg/kg dry	1	1.14	2.59	0I14018	EPA 6010C	09/15/10 10:38	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: GP-4 (29-33')
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010226-05
Sampled: 09/08/10 09:38
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226
% Solids: 91.1

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	0I15005	EPA 8260B	09/15/10 18:09	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.00020	U	mg/kg dry	1	0.00020	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
1,1-Dichloroethane [75-34-3] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
1,1-Dichloroethene [75-35-4] ^	0.00033	U	mg/kg dry	1	0.00033	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
1,1-Dichloropropene [563-58-6] ^	0.00035	U	mg/kg dry	1	0.00035	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.00023	U	mg/kg dry	1	0.00023	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.00037	U	mg/kg dry	1	0.00037	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.00030	U	mg/kg dry	1	0.00030	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.00087	U	mg/kg dry	1	0.00087	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
1,2-Dibromoethane [106-93-4] ^	0.00051	U	mg/kg dry	1	0.00051	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.00030	U	mg/kg dry	1	0.00030	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
1,2-Dichloroethane [107-06-2] ^	0.00042	U	mg/kg dry	1	0.00042	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
1,2-Dichloropropane [78-87-5] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
1,3-Dichloropropane [142-28-9] ^	0.00032	U	mg/kg dry	1	0.00032	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
2,2-Dichloropropane [594-20-7] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
2-Butanone [78-93-3] ^	0.00086	U	mg/kg dry	1	0.00086	0.0055	0I15005	EPA 8260B	09/15/10 18:09	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.00054	U	mg/kg dry	1	0.00054	0.0055	0I15005	EPA 8260B	09/15/10 18:09	JKG	
2-Chlorotoluene [95-49-8] ^	0.00020	U	mg/kg dry	1	0.00020	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
2-Hexanone [591-78-6] ^	0.00082	U	mg/kg dry	1	0.00082	0.0055	0I15005	EPA 8260B	09/15/10 18:09	JKG	
4-Chlorotoluene [106-43-4] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
4-Isopropyltoluene [99-87-6] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.00063	U	mg/kg dry	1	0.00063	0.0055	0I15005	EPA 8260B	09/15/10 18:09	JKG	
Acetone [67-64-1] ^	0.0013	U	mg/kg dry	1	0.0013	0.0055	0I15005	EPA 8260B	09/15/10 18:09	JKG	
Benzene [71-43-2] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
Bromobenzene [108-86-1] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
Bromochloromethane [74-97-5] ^	0.00045	U	mg/kg dry	1	0.00045	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
Bromodichloromethane [75-27-4] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
Bromoform [75-25-2] ^	0.00049	U	mg/kg dry	1	0.00049	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
Bromomethane [74-83-9] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
Carbon disulfide [75-15-0] ^	0.00043	U	mg/kg dry	1	0.00043	0.0055	0I15005	EPA 8260B	09/15/10 18:09	JKG	
Carbon Tetrachloride [56-23-5] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
Chlorobenzene [108-90-7] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
Chloroethane [75-00-3] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
Chloroform [67-66-3] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
Chloromethane [74-87-3] ^	0.00016	U	mg/kg dry	1	0.00016	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.00014	U	mg/kg dry	1	0.00014	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
Dibromochloromethane [124-48-1] ^	0.00038	U	mg/kg dry	1	0.00038	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
Dibromomethane [74-95-3] ^	0.00034	U	mg/kg dry	1	0.00034	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.00049	U	mg/kg dry	1	0.00049	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
Ethylbenzene [100-41-4] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
Hexachlorobutadiene [87-68-3] ^	0.00038	U	mg/kg dry	1	0.00038	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
Isopropylbenzene [98-82-8] ^	0.00016	U	mg/kg dry	1	0.00016	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.00041	U	mg/kg dry	1	0.00041	0.0022	0I15005	EPA 8260B	09/15/10 18:09	JKG	
Methylene Chloride [75-09-2] ^	0.00061	U	mg/kg dry	1	0.00061	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	

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Description: GP-4 (29-33')
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010226-05
Sampled: 09/08/10 09:38
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226
% Solids: 91.1

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	0I15005	EPA 8260B	09/15/10 18:09	JKG	
Naphthalene [91-20-3] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
n-Butyl Benzene [104-51-8] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
n-Propyl Benzene [103-65-1] ^	0.00020	U	mg/kg dry	1	0.00020	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
o-Xylene [95-47-6] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
sec-Butylbenzene [135-98-8] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
Styrene [100-42-5] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
tert-Butylbenzene [98-06-6] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
Tetrachloroethene [127-18-4] ^	0.00031	U	mg/kg dry	1	0.00031	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
Toluene [108-88-3] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.00041	U	mg/kg dry	1	0.00041	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.00043	U	mg/kg dry	1	0.00043	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
Trichloroethene [79-01-6] ^	0.00030	U	mg/kg dry	1	0.00030	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
Trichlorofluoromethane [75-69-4] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
Vinyl chloride [75-01-4] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	
Xylenes (Total) [1330-20-7] ^	0.00061	U	mg/kg dry	1	0.00061	0.0011	0I15005	EPA 8260B	09/15/10 18:09	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*109 %*	*61-118*	*0I15005*	*EPA 8260B*	*09/15/10 18:09*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*66-114*	*0I15005*	*EPA 8260B*	*09/15/10 18:09*	*JKG*	
Toluene-d8	*51*	*1*	*50.0*	*102 %*	*63-118*	*0I15005*	*EPA 8260B*	*09/15/10 18:09*	*JKG*	

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Description: GP-4 (29-33')
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010226-05
Sampled: 09/08/10 09:38
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226
% Solids: 91.1

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Benzoic acid, 4-methyl-2-tr... [1000153-59-3]	0.012	J	mg/kg dry	1			0I09003	EPA 8260B	09/09/10 18:29	JKG	
Carbon Dioxide [124-38-9]	0.16	J	mg/kg dry	1			0I09003	EPA 8260B	09/09/10 18:29	JKG	
Carbon Dioxide [124-38-9]	0.097	J	mg/kg dry	1			0I15005	EPA 8260B	09/15/10 18:09	JKG	
Cyclopentasiloxane, decamet... [000541-02-6]	0.0051	JB	mg/kg dry	1			0I09003	EPA 8260B	09/09/10 18:29	JKG	
Cyclopentasiloxane, decamet... [000541-02-6]	0.0048	J	mg/kg dry	1			0I15005	EPA 8260B	09/15/10 18:09	JKG	
Cyclotetrasiloxane, octamet... [000556-67-2]	0.013	J	mg/kg dry	1			0I15005	EPA 8260B	09/15/10 18:09	JKG	

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Description: GP-4 (29-33')
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Lab Sample ID: C010226-05
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Received: 09/08/10 15:25
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% Solids: 91.1

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,2,4-Trichlorobenzene [120-82-1] ^	0.025	U	mg/kg dry	1	0.025	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
1,2-Dichlorobenzene [95-50-1] ^	0.035	U	mg/kg dry	1	0.035	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
1,3-Dichlorobenzene [541-73-1] ^	0.033	U	mg/kg dry	1	0.033	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
1,4-Dichlorobenzene [106-46-7] ^	0.030	U	mg/kg dry	1	0.030	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
1-Methylnaphthalene [90-12-0] ^	0.038	U	mg/kg dry	1	0.038	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	0.036	U	mg/kg dry	1	0.036	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	0.035	U	mg/kg dry	1	0.035	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
2,4-Dichlorophenol [120-83-2] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
2,4-Dimethylphenol [105-67-9] ^	0.065	U	mg/kg dry	1	0.065	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
2,4-Dinitrophenol [51-28-5] ^	0.052	U	mg/kg dry	1	0.052	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
2,4-Dinitrotoluene [121-14-2] ^	0.034	U	mg/kg dry	1	0.034	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
2,6-Dinitrotoluene [606-20-2] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
2-Chloronaphthalene [91-58-7] ^	0.026	U	mg/kg dry	1	0.026	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
2-Chlorophenol [95-57-8] ^	0.032	U	mg/kg dry	1	0.032	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	0.055	U	mg/kg dry	1	0.055	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
2-Methylnaphthalene [91-57-6] ^	0.041	U	mg/kg dry	1	0.041	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
2-Methylphenol [95-48-7] ^	0.042	U	mg/kg dry	1	0.042	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
2-Nitroaniline [88-74-4] ^	0.033	U	mg/kg dry	1	0.033	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
2-Nitrophenol [88-75-5] ^	0.036	U	mg/kg dry	1	0.036	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	0.046	U	mg/kg dry	1	0.046	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
3-Nitroaniline [99-09-2] ^	0.048	U	mg/kg dry	1	0.048	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	0.031	U	mg/kg dry	1	0.031	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
4-Chloroaniline [106-47-8] ^	0.033	U	mg/kg dry	1	0.033	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
4-Nitroaniline [100-01-6] ^	0.065	U	mg/kg dry	1	0.065	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
4-Nitrophenol [100-02-7] ^	0.046	U	mg/kg dry	1	0.046	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Acenaphthene [83-32-9] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Acenaphthylene [208-96-8] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Anthracene [120-12-7] ^	0.036	U	mg/kg dry	1	0.036	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Benzidine [92-87-5] ^	0.12	U	mg/kg dry	1	0.12	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	QV-01
Benzo(a)anthracene [56-55-3] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Benzo(a)pyrene [50-32-8] ^	0.030	U	mg/kg dry	1	0.030	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Benzo(b)fluoranthene [205-99-2] ^	0.030	U	mg/kg dry	1	0.030	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	0.043	U	mg/kg dry	1	0.043	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Benzo(k)fluoranthene [207-08-9] ^	0.030	U	mg/kg dry	1	0.030	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Benzoic acid [65-85-0] ^	0.12	U	mg/kg dry	1	0.12	1.9	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Benzyl alcohol [100-51-6] ^	0.072	U	mg/kg dry	1	0.072	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	0.023	U	mg/kg dry	1	0.023	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	0.055	U	mg/kg dry	1	0.055	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	0.029	U	mg/kg dry	1	0.029	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	0.041	U	mg/kg dry	1	0.041	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Butylbenzylphthalate [85-68-7] ^	0.037	U	mg/kg dry	1	0.037	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	QV-02
Chrysene [218-01-9] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	0.045	U	mg/kg dry	1	0.045	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Dibenzofuran [132-64-9] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Diethylphthalate [84-66-2] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Dimethylphthalate [131-11-3] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Di-n-butylphthalate [84-74-2] ^	0.034	U	mg/kg dry	1	0.034	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Di-n-octylphthalate [117-84-0] ^	0.030	U	mg/kg dry	1	0.030	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	

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Project: Mary Chappell Site

Lab Sample ID: C010226-05
Sampled: 09/08/10 09:38
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226
% Solids: 91.1

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Fluoranthene [206-44-0] ^	0.047	U	mg/kg dry	1	0.047	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Fluorene [86-73-7] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Hexachlorobenzene [118-74-1] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Hexachlorobutadiene [87-68-3] ^	0.031	U	mg/kg dry	1	0.031	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	0.047	U	mg/kg dry	1	0.047	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Hexachloroethane [67-72-1] ^	0.036	U	mg/kg dry	1	0.036	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	0.042	U	mg/kg dry	1	0.042	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Isophorone [78-59-1] ^	0.018	U	mg/kg dry	1	0.018	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Naphthalene [91-20-3] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Nitrobenzene [98-95-3] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
N-Nitrosodimethylamine [62-75-9] ^	0.030	U	mg/kg dry	1	0.030	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	0.019	U	mg/kg dry	1	0.019	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	0.029	U	mg/kg dry	1	0.029	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Pentachlorophenol [87-86-5] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Phenanthrene [85-01-8] ^	0.029	U	mg/kg dry	1	0.029	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Phenol [108-95-2] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Pyrene [129-00-0] ^	0.053	U	mg/kg dry	1	0.053	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	
Pyridine [110-86-1] ^	0.13	U	mg/kg dry	1	0.13	0.36	0I16021	EPA 8270D	09/20/10 19:27	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*3.1*	*1*	*3.66*	*84 %*	*28-130*	*0I16021*	*EPA 8270D*	*09/20/10 19:27*	*DFM*	
2-Fluorobiphenyl	*1.5*	*1*	*1.83*	*83 %*	*56-120*	*0I16021*	*EPA 8270D*	*09/20/10 19:27*	*DFM*	
2-Fluorophenol	*2.6*	*1*	*3.66*	*71 %*	*49-126*	*0I16021*	*EPA 8270D*	*09/20/10 19:27*	*DFM*	
Nitrobenzene-d5	*1.5*	*1*	*1.83*	*82 %*	*50-117*	*0I16021*	*EPA 8270D*	*09/20/10 19:27*	*DFM*	
Phenol-d5	*2.9*	*1*	*3.66*	*79 %*	*56-120*	*0I16021*	*EPA 8270D*	*09/20/10 19:27*	*DFM*	
Terphenyl-d14	*1.9*	*1*	*1.83*	*103 %*	*36-151*	*0I16021*	*EPA 8270D*	*09/20/10 19:27*	*DFM*	

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Lab Sample ID: C010226-05
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Sampled By: Gerald Paul

Received: 09/08/10 15:25
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% Solids: 91.1

Tentatively Identified Compounds by Semivolatile GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
7-Oxabicyclo[4.1.0]heptane [000286-20-4]	**0.21**	J	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 19:27	DFM	
Ethane, 1,1,2,2-tetrachloro- [000079-34-5]	**0.45**	JB	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 19:27	DFM	B
Ethane, 1,1,2-trichloro- [000079-00-5]	**0.19**	J	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 19:27	DFM	
Tentatively Identified Compounds [NA] ^	0.0	U	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 19:27	DFM	
Unknown [NA]	**0.56**	JB	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 19:27	DFM	B

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Lab Sample ID: C010226-05
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Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.00035	U	mg/kg dry	1	0.00035	0.0019	0I14011	EPA 8081B	09/16/10 20:46	REF	
4,4'-DDE [72-55-9] ^	0.00045	U	mg/kg dry	1	0.00045	0.0019	0I14011	EPA 8081B	09/16/10 20:46	REF	
4,4'-DDT [50-29-3] ^	0.00057	U	mg/kg dry	1	0.00057	0.0019	0I14011	EPA 8081B	09/16/10 20:46	REF	
Aldrin [309-00-2] ^	0.00040	U	mg/kg dry	1	0.00040	0.0019	0I14011	EPA 8081B	09/16/10 20:46	REF	
alpha-BHC [319-84-6] ^	0.00054	U	mg/kg dry	1	0.00054	0.0019	0I14011	EPA 8081B	09/16/10 20:46	REF	
beta-BHC [319-85-7] ^	0.00078	U	mg/kg dry	1	0.00078	0.0019	0I14011	EPA 8081B	09/16/10 20:46	REF	
Chlordane (tech) [12789-03-6] ^	0.0012	U	mg/kg dry	1	0.0012	0.036	0I14011	EPA 8081B	09/16/10 20:46	REF	
Chlordane-alpha [5103-71-9] ^	0.00051	U	mg/kg dry	1	0.00051	0.0019	0I14011	EPA 8081B	09/16/10 20:46	REF	
Chlordane-gamma [5566-34-7] ^	0.00066	U	mg/kg dry	1	0.00066	0.0019	0I14011	EPA 8081B	09/16/10 20:46	REF	
delta-BHC [319-86-8] ^	0.00033	U	mg/kg dry	1	0.00033	0.0019	0I14011	EPA 8081B	09/16/10 20:46	REF	
Dieldrin [60-57-1] ^	0.00035	U	mg/kg dry	1	0.00035	0.0019	0I14011	EPA 8081B	09/16/10 20:46	REF	
Endosulfan I [959-98-8] ^	0.00045	U	mg/kg dry	1	0.00045	0.0019	0I14011	EPA 8081B	09/16/10 20:46	REF	
Endosulfan II [33213-65-9] ^	0.00043	U	mg/kg dry	1	0.00043	0.0019	0I14011	EPA 8081B	09/16/10 20:46	REF	
Endosulfan sulfate [1031-07-8] ^	0.00053	U	mg/kg dry	1	0.00053	0.0019	0I14011	EPA 8081B	09/16/10 20:46	REF	
Endrin [72-20-8] ^	0.00043	U	mg/kg dry	1	0.00043	0.0019	0I14011	EPA 8081B	09/16/10 20:46	REF	
Endrin aldehyde [7421-93-4] ^	0.00037	U	mg/kg dry	1	0.00037	0.0019	0I14011	EPA 8081B	09/16/10 20:46	REF	
Endrin ketone [53494-70-5] ^	0.00033	U	mg/kg dry	1	0.00033	0.0019	0I14011	EPA 8081B	09/16/10 20:46	REF	
gamma-BHC [58-89-9] ^	0.00046	U	mg/kg dry	1	0.00046	0.0019	0I14011	EPA 8081B	09/16/10 20:46	REF	
Heptachlor [76-44-8] ^	0.00051	U	mg/kg dry	1	0.00051	0.0019	0I14011	EPA 8081B	09/16/10 20:46	REF	
Heptachlor epoxide [1024-57-3] ^	0.00047	U	mg/kg dry	1	0.00047	0.0019	0I14011	EPA 8081B	09/16/10 20:46	REF	
Isodrin [465-73-6] ^	0.00040	U	mg/kg dry	1	0.00040	0.0019	0I14011	EPA 8081B	09/16/10 20:46	REF	
Methoxychlor [72-43-5] ^	0.00046	U	mg/kg dry	1	0.00046	0.0019	0I14011	EPA 8081B	09/16/10 20:46	REF	
Mirex [2385-85-5] ^	0.00061	U	mg/kg dry	1	0.00061	0.0019	0I14011	EPA 8081B	09/16/10 20:46	REF	
Toxaphene [8001-35-2] ^	0.011	U	mg/kg dry	1	0.011	0.019	0I14011	EPA 8081B	09/16/10 20:46	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.057*	*1*	*0.0366*	*154 %*	*59-137*	*0I14011*	*EPA 8081B*	*09/16/10 20:46*	*REF*	*QS-03*
Decachlorobiphenyl	*0.047*	*1*	*0.0366*	*129 %*	*60-140*	*0I14011*	*EPA 8081B*	*09/16/10 20:46*	*REF*	

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Description: GP-4 (29-33')
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010226-05
Sampled: 09/08/10 09:38
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226
% Solids: 91.1

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.121	U	mg/kg dry	1	0.121	1.10	OI14018	EPA 6010C	09/15/10 10:40	JDH	
Arsenic [7440-38-2] ^	**1.22**		mg/kg dry	1	0.110	0.549	OI14018	EPA 6010C	09/15/10 10:40	JDH	
Beryllium [7440-41-7] ^	0.0132	U	mg/kg dry	1	0.0132	0.0549	OI14018	EPA 6010C	09/15/10 10:40	JDH	
Cadmium [7440-43-9] ^	0.0105	U	mg/kg dry	1	0.0105	0.0549	OI14018	EPA 6010C	09/15/10 10:40	JDH	
Chromium [7440-47-3] ^	**1.34**		mg/kg dry	1	0.110	0.549	OI14018	EPA 6010C	09/15/10 10:40	JDH	
Copper [7440-50-8] ^	**3.10**		mg/kg dry	1	0.209	0.549	OI14018	EPA 6010C	09/15/10 10:40	JDH	
Lead [7439-92-1] ^	**0.846**		mg/kg dry	1	0.132	0.549	OI14018	EPA 6010C	09/15/10 10:40	JDH	
Manganese [7439-96-5] ^	**0.291**	J	mg/kg dry	1	0.110	0.549	OI14018	EPA 6010C	09/15/10 10:40	JDH	
Mercury [7439-97-6] ^	**0.00765**	J	mg/kg dry	1	0.00527	0.0110	OI14017	EPA 7471B	09/14/10 16:47	NLH	
Nickel [7440-02-0] ^	0.395	U	mg/kg dry	1	0.395	2.75	OI14018	EPA 6010C	09/15/10 10:40	JDH	
Selenium [7782-49-2] ^	**0.942**	B	mg/kg dry	1	0.110	0.549	OI14018	EPA 6010C	09/15/10 10:40	JDH	J-01
Silver [7440-22-4] ^	0.110	U	mg/kg dry	1	0.110	0.549	OI14018	EPA 6010C	09/15/10 10:40	JDH	
Thallium [7440-28-0] ^	**0.160**	J	mg/kg dry	1	0.110	0.549	OI14018	EPA 6010C	09/15/10 10:40	JDH	
Zinc [7440-66-6] ^	1.21	U	mg/kg dry	1	1.21	2.75	OI14018	EPA 6010C	09/15/10 10:40	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: GP-6 (5-9')
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010226-06
Sampled: 09/08/10 13:30
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226
% Solids: 92.1

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	0I15005	EPA 8260B	09/15/10 18:38	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.00020	U	mg/kg dry	1	0.00020	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
1,1-Dichloroethane [75-34-3] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
1,1-Dichloroethene [75-35-4] ^	0.00033	U	mg/kg dry	1	0.00033	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
1,1-Dichloropropene [563-58-6] ^	0.00035	U	mg/kg dry	1	0.00035	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.00023	U	mg/kg dry	1	0.00023	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.00037	U	mg/kg dry	1	0.00037	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.00086	U	mg/kg dry	1	0.00086	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
1,2-Dibromoethane [106-93-4] ^	0.00050	U	mg/kg dry	1	0.00050	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
1,2-Dichloroethane [107-06-2] ^	0.00041	U	mg/kg dry	1	0.00041	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
1,2-Dichloropropane [78-87-5] ^	0.00028	U	mg/kg dry	1	0.00028	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
1,3-Dichloropropane [142-28-9] ^	0.00031	U	mg/kg dry	1	0.00031	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
2,2-Dichloropropane [594-20-7] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
2-Butanone [78-93-3] ^	0.00085	U	mg/kg dry	1	0.00085	0.0054	0I15005	EPA 8260B	09/15/10 18:38	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.00053	U	mg/kg dry	1	0.00053	0.0054	0I15005	EPA 8260B	09/15/10 18:38	JKG	
2-Chlorotoluene [95-49-8] ^	0.00020	U	mg/kg dry	1	0.00020	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
2-Hexanone [591-78-6] ^	0.00081	U	mg/kg dry	1	0.00081	0.0054	0I15005	EPA 8260B	09/15/10 18:38	JKG	
4-Chlorotoluene [106-43-4] ^	0.00028	U	mg/kg dry	1	0.00028	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
4-Isopropyltoluene [99-87-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.00062	U	mg/kg dry	1	0.00062	0.0054	0I15005	EPA 8260B	09/15/10 18:38	JKG	
Acetone [67-64-1] ^	0.0013	U	mg/kg dry	1	0.0013	0.0054	0I15005	EPA 8260B	09/15/10 18:38	JKG	
Benzene [71-43-2] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
Bromobenzene [108-86-1] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
Bromochloromethane [74-97-5] ^	0.00045	U	mg/kg dry	1	0.00045	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
Bromodichloromethane [75-27-4] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
Bromoform [75-25-2] ^	0.00049	U	mg/kg dry	1	0.00049	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
Bromomethane [74-83-9] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
Carbon disulfide [75-15-0] ^	0.00042	U	mg/kg dry	1	0.00042	0.0054	0I15005	EPA 8260B	09/15/10 18:38	JKG	
Carbon Tetrachloride [56-23-5] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
Chlorobenzene [108-90-7] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
Chloroethane [75-00-3] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
Chloroform [67-66-3] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
Chloromethane [74-87-3] ^	0.00016	U	mg/kg dry	1	0.00016	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.00014	U	mg/kg dry	1	0.00014	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
Dibromochloromethane [124-48-1] ^	0.00038	U	mg/kg dry	1	0.00038	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
Dibromomethane [74-95-3] ^	0.00034	U	mg/kg dry	1	0.00034	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.00049	U	mg/kg dry	1	0.00049	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
Ethylbenzene [100-41-4] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
Hexachlorobutadiene [87-68-3] ^	0.00038	U	mg/kg dry	1	0.00038	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
Isopropylbenzene [98-82-8] ^	0.00016	U	mg/kg dry	1	0.00016	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.00040	U	mg/kg dry	1	0.00040	0.0022	0I15005	EPA 8260B	09/15/10 18:38	JKG	
Methylene Chloride [75-09-2] ^	0.00061	U	mg/kg dry	1	0.00061	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	

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Description: GP-6 (5-9')
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010226-06
Sampled: 09/08/10 13:30
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226
% Solids: 92.1

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	0I15005	EPA 8260B	09/15/10 18:38	JKG	
Naphthalene [91-20-3] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
n-Butyl Benzene [104-51-8] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
n-Propyl Benzene [103-65-1] ^	0.00020	U	mg/kg dry	1	0.00020	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
o-Xylene [95-47-6] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
sec-Butylbenzene [135-98-8] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
Styrene [100-42-5] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
tert-Butylbenzene [98-06-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
Tetrachloroethene [127-18-4] ^	0.00030	U	mg/kg dry	1	0.00030	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
Toluene [108-88-3] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.00040	U	mg/kg dry	1	0.00040	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.00042	U	mg/kg dry	1	0.00042	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
Trichloroethene [79-01-6] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
Trichlorofluoromethane [75-69-4] ^	0.00028	U	mg/kg dry	1	0.00028	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
Vinyl chloride [75-01-4] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	
Xylenes (Total) [1330-20-7] ^	0.00061	U	mg/kg dry	1	0.00061	0.0011	0I15005	EPA 8260B	09/15/10 18:38	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*56*	*1*	*50.0*	*112 %*	*61-118*	*0I15005*	*EPA 8260B*	*09/15/10 18:38*	*JKG*	
Dibromofluoromethane	*54*	*1*	*50.0*	*107 %*	*66-114*	*0I15005*	*EPA 8260B*	*09/15/10 18:38*	*JKG*	
Toluene-d8	*51*	*1*	*50.0*	*101 %*	*63-118*	*0I15005*	*EPA 8260B*	*09/15/10 18:38*	*JKG*	

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Description: GP-6 (5-9')	**Lab Sample ID:** C010226-06	**Received:** 09/08/10 15:25
Matrix: Soil	**Sampled:** 09/08/10 13:30	**Work Order:** C010226
Project: Mary Chappell Site	**Sampled By:** Gerald Paul	**% Solids:** 92.1

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
7H-Dibenzo[b,g]carbazole, 7... [003557-49-1]	0.012	J	mg/kg dry	1			0I09003	EPA 8260B	09/09/10 18:57	JKG	
Carbon Dioxide [124-38-9]	0.21	J	mg/kg dry	1			0I09003	EPA 8260B	09/09/10 18:57	JKG	
Carbon Dioxide [124-38-9]	0.12	J	mg/kg dry	1			0I15005	EPA 8260B	09/15/10 18:38	JKG	
Cyclopentasiloxane, decamet... [000541-02-6]	0.0057	JB	mg/kg dry	1			0I09003	EPA 8260B	09/09/10 18:57	JKG	
Cyclopentasiloxane, decamet... [000541-02-6]	0.0051	J	mg/kg dry	1			0I15005	EPA 8260B	09/15/10 18:38	JKG	
Cyclotetrasiloxane, octamet... [000556-67-2]	0.014	J	mg/kg dry	1			0I15005	EPA 8260B	09/15/10 18:38	JKG	

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Description: GP-6 (5-9')
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010226-06
Sampled: 09/08/10 13:30
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226
% Solids: 92.1

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,2,4-Trichlorobenzene [120-82-1] ^	0.025	U	mg/kg dry	1	0.025	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
1,2-Dichlorobenzene [95-50-1] ^	0.035	U	mg/kg dry	1	0.035	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
1,3-Dichlorobenzene [541-73-1] ^	0.033	U	mg/kg dry	1	0.033	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
1,4-Dichlorobenzene [106-46-7] ^	0.029	U	mg/kg dry	1	0.029	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
1-Methylnaphthalene [90-12-0] ^	0.038	U	mg/kg dry	1	0.038	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	0.036	U	mg/kg dry	1	0.036	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	0.035	U	mg/kg dry	1	0.035	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
2,4-Dichlorophenol [120-83-2] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
2,4-Dimethylphenol [105-67-9] ^	0.064	U	mg/kg dry	1	0.064	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
2,4-Dinitrophenol [51-28-5] ^	0.051	U	mg/kg dry	1	0.051	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
2,4-Dinitrotoluene [121-14-2] ^	0.034	U	mg/kg dry	1	0.034	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
2,6-Dinitrotoluene [606-20-2] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
2-Chloronaphthalene [91-58-7] ^	0.026	U	mg/kg dry	1	0.026	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
2-Chlorophenol [95-57-8] ^	0.031	U	mg/kg dry	1	0.031	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	0.054	U	mg/kg dry	1	0.054	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
2-Methylnaphthalene [91-57-6] ^	0.040	U	mg/kg dry	1	0.040	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
2-Methylphenol [95-48-7] ^	0.041	U	mg/kg dry	1	0.041	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
2-Nitroaniline [88-74-4] ^	0.033	U	mg/kg dry	1	0.033	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
2-Nitrophenol [88-75-5] ^	0.036	U	mg/kg dry	1	0.036	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	0.046	U	mg/kg dry	1	0.046	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
3-Nitroaniline [99-09-2] ^	0.048	U	mg/kg dry	1	0.048	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	0.030	U	mg/kg dry	1	0.030	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
4-Chloroaniline [106-47-8] ^	0.033	U	mg/kg dry	1	0.033	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
4-Nitroaniline [100-01-6] ^	0.064	U	mg/kg dry	1	0.064	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
4-Nitrophenol [100-02-7] ^	0.046	U	mg/kg dry	1	0.046	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Acenaphthene [83-32-9] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Acenaphthylene [208-96-8] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Anthracene [120-12-7] ^	0.036	U	mg/kg dry	1	0.036	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Benzidine [92-87-5] ^	0.12	U	mg/kg dry	1	0.12	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	QV-01
Benzo(a)anthracene [56-55-3] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Benzo(a)pyrene [50-32-8] ^	0.029	U	mg/kg dry	1	0.029	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Benzo(b)fluoranthene [205-99-2] ^	0.029	U	mg/kg dry	1	0.029	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	0.042	U	mg/kg dry	1	0.042	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Benzo(k)fluoranthene [207-08-9] ^	0.029	U	mg/kg dry	1	0.029	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Benzoic acid [65-85-0] ^	0.12	U	mg/kg dry	1	0.12	1.8	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Benzyl alcohol [100-51-6] ^	0.072	U	mg/kg dry	1	0.072	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	0.023	U	mg/kg dry	1	0.023	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	0.054	U	mg/kg dry	1	0.054	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	0.028	U	mg/kg dry	1	0.028	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	0.040	U	mg/kg dry	1	0.040	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Butylbenzylphthalate [85-68-7] ^	0.037	U	mg/kg dry	1	0.037	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	QV-02
Chrysene [218-01-9] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	0.045	U	mg/kg dry	1	0.045	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Dibenzofuran [132-64-9] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Diethylphthalate [84-66-2] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Dimethylphthalate [131-11-3] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Di-n-butylphthalate [84-74-2] ^	0.034	U	mg/kg dry	1	0.034	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Di-n-octylphthalate [117-84-0] ^	0.029	U	mg/kg dry	1	0.029	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	

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Description: GP-6 (5-9')
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010226-06
Sampled: 09/08/10 13:30
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226
% Solids: 92.1

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Fluoranthene [206-44-0] ^	0.047	U	mg/kg dry	1	0.047	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Fluorene [86-73-7] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Hexachlorobenzene [118-74-1] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Hexachlorobutadiene [87-68-3] ^	0.030	U	mg/kg dry	1	0.030	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	0.047	U	mg/kg dry	1	0.047	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Hexachloroethane [67-72-1] ^	0.036	U	mg/kg dry	1	0.036	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	0.041	U	mg/kg dry	1	0.041	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Isophorone [78-59-1] ^	0.017	U	mg/kg dry	1	0.017	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Naphthalene [91-20-3] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Nitrobenzene [98-95-3] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
N-Nitrosodimethylamine [62-75-9] ^	0.029	U	mg/kg dry	1	0.029	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	0.018	U	mg/kg dry	1	0.018	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	0.028	U	mg/kg dry	1	0.028	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Pentachlorophenol [87-86-5] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Phenanthrene [85-01-8] ^	0.028	U	mg/kg dry	1	0.028	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Phenol [108-95-2] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Pyrene [129-00-0] ^	0.052	U	mg/kg dry	1	0.052	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	
Pyridine [110-86-1] ^	0.13	U	mg/kg dry	1	0.13	0.36	0I16021	EPA 8270D	09/20/10 19:56	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*3.1*	*1*	*3.62*	*86 %*	*28-130*	*0I16021*	*EPA 8270D*	*09/20/10 19:56*	*DFM*	
2-Fluorobiphenyl	*1.5*	*1*	*1.81*	*85 %*	*56-120*	*0I16021*	*EPA 8270D*	*09/20/10 19:56*	*DFM*	
2-Fluorophenol	*2.6*	*1*	*3.62*	*72 %*	*49-126*	*0I16021*	*EPA 8270D*	*09/20/10 19:56*	*DFM*	
Nitrobenzene-d5	*1.5*	*1*	*1.81*	*84 %*	*50-117*	*0I16021*	*EPA 8270D*	*09/20/10 19:56*	*DFM*	
Phenol-d5	*2.9*	*1*	*3.62*	*79 %*	*56-120*	*0I16021*	*EPA 8270D*	*09/20/10 19:56*	*DFM*	
Terphenyl-d14	*1.9*	*1*	*1.81*	*104 %*	*36-151*	*0I16021*	*EPA 8270D*	*09/20/10 19:56*	*DFM*	

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Description: GP-6 (5-9')
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010226-06
Sampled: 09/08/10 13:30
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226
% Solids: 92.1

Tentatively Identified Compounds by Semivolatile GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Ethane, 1,1,2,2-tetrachloro- [000079-34-5]	**0.27**	JB	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 19:56	DFM	B
Tentatively Identified Compounds [NA] ^	0.0	U	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 19:56	DFM	
Unknown [NA]	**0.59**	JB	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 19:56	DFM	B

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Lab Sample ID: C010226-06
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Received: 09/08/10 15:25
Work Order: C010226
% Solids: 92.1

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.00035	U	mg/kg dry	1	0.00035	0.0018	OI14011	EPA 8081B	09/16/10 21:00	REF	
4,4'-DDE [72-55-9] ^	0.00045	U	mg/kg dry	1	0.00045	0.0018	OI14011	EPA 8081B	09/16/10 21:00	REF	
4,4'-DDT [50-29-3] ^	0.00056	U	mg/kg dry	1	0.00056	0.0018	OI14011	EPA 8081B	09/16/10 21:00	REF	
Aldrin [309-00-2] ^	0.00039	U	mg/kg dry	1	0.00039	0.0018	OI14011	EPA 8081B	09/16/10 21:00	REF	
alpha-BHC [319-84-6] ^	0.00053	U	mg/kg dry	1	0.00053	0.0018	OI14011	EPA 8081B	09/16/10 21:00	REF	
beta-BHC [319-85-7] ^	0.00077	U	mg/kg dry	1	0.00077	0.0018	OI14011	EPA 8081B	09/16/10 21:00	REF	
Chlordane (tech) [12789-03-6] ^	0.0012	U	mg/kg dry	1	0.0012	0.036	OI14011	EPA 8081B	09/16/10 21:00	REF	
Chlordane-alpha [5103-71-9] ^	0.00050	U	mg/kg dry	1	0.00050	0.0018	OI14011	EPA 8081B	09/16/10 21:00	REF	
Chlordane-gamma [5566-34-7] ^	0.00065	U	mg/kg dry	1	0.00065	0.0018	OI14011	EPA 8081B	09/16/10 21:00	REF	
delta-BHC [319-86-8] ^	0.00033	U	mg/kg dry	1	0.00033	0.0018	OI14011	EPA 8081B	09/16/10 21:00	REF	
Dieldrin [60-57-1] ^	0.00035	U	mg/kg dry	1	0.00035	0.0018	OI14011	EPA 8081B	09/16/10 21:00	REF	
Endosulfan I [959-98-8] ^	0.00045	U	mg/kg dry	1	0.00045	0.0018	OI14011	EPA 8081B	09/16/10 21:00	REF	
Endosulfan II [33213-65-9] ^	0.00042	U	mg/kg dry	1	0.00042	0.0018	OI14011	EPA 8081B	09/16/10 21:00	REF	
Endosulfan sulfate [1031-07-8] ^	0.00052	U	mg/kg dry	1	0.00052	0.0018	OI14011	EPA 8081B	09/16/10 21:00	REF	
Endrin [72-20-8] ^	0.00042	U	mg/kg dry	1	0.00042	0.0018	OI14011	EPA 8081B	09/16/10 21:00	REF	
Endrin aldehyde [7421-93-4] ^	0.00037	U	mg/kg dry	1	0.00037	0.0018	OI14011	EPA 8081B	09/16/10 21:00	REF	
Endrin ketone [53494-70-5] ^	0.00033	U	mg/kg dry	1	0.00033	0.0018	OI14011	EPA 8081B	09/16/10 21:00	REF	
gamma-BHC [58-89-9] ^	0.00046	U	mg/kg dry	1	0.00046	0.0018	OI14011	EPA 8081B	09/16/10 21:00	REF	
Heptachlor [76-44-8] ^	0.00050	U	mg/kg dry	1	0.00050	0.0018	OI14011	EPA 8081B	09/16/10 21:00	REF	
Heptachlor epoxide [1024-57-3] ^	0.00047	U	mg/kg dry	1	0.00047	0.0018	OI14011	EPA 8081B	09/16/10 21:00	REF	
Isodrin [465-73-6] ^	0.00039	U	mg/kg dry	1	0.00039	0.0018	OI14011	EPA 8081B	09/16/10 21:00	REF	
Methoxychlor [72-43-5] ^	0.00046	U	mg/kg dry	1	0.00046	0.0018	OI14011	EPA 8081B	09/16/10 21:00	REF	
Mirex [2385-85-5] ^	0.00061	U	mg/kg dry	1	0.00061	0.0018	OI14011	EPA 8081B	09/16/10 21:00	REF	
Toxaphene [8001-35-2] ^	0.011	U	mg/kg dry	1	0.011	0.018	OI14011	EPA 8081B	09/16/10 21:00	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.053*	*1*	*0.0362*	*148 %*	*59-137*	*OI14011*	*EPA 8081B*	*09/16/10 21:00*	*REF*	*QS-03*
Decachlorobiphenyl	*0.046*	*1*	*0.0362*	*127 %*	*60-140*	*OI14011*	*EPA 8081B*	*09/16/10 21:00*	*REF*	

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Description: GP-6 (5-9')
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Project: Mary Chappell Site

Lab Sample ID: C010226-06
Sampled: 09/08/10 13:30
Sampled By: Gerald Paul

Received: 09/08/10 15:25
Work Order: C010226
% Solids: 92.1

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.119	U	mg/kg dry	1	0.119	1.09	0I14018	EPA 6010C	09/15/10 10:43	JDH	
Arsenic [7440-38-2] ^	**0.728**		mg/kg dry	1	0.109	0.543	0I14018	EPA 6010C	09/15/10 10:43	JDH	
Beryllium [7440-41-7] ^	0.0130	U	mg/kg dry	1	0.0130	0.0543	0I14018	EPA 6010C	09/15/10 10:43	JDH	
Cadmium [7440-43-9] ^	0.0104	U	mg/kg dry	1	0.0104	0.0543	0I14018	EPA 6010C	09/15/10 10:43	JDH	
Chromium [7440-47-3] ^	**2.48**		mg/kg dry	1	0.109	0.543	0I14018	EPA 6010C	09/15/10 10:43	JDH	
Copper [7440-50-8] ^	**1.18**		mg/kg dry	1	0.206	0.543	0I14018	EPA 6010C	09/15/10 10:43	JDH	
Lead [7439-92-1] ^	**1.19**		mg/kg dry	1	0.130	0.543	0I14018	EPA 6010C	09/15/10 10:43	JDH	
Manganese [7439-96-5] ^	**3.51**		mg/kg dry	1	0.109	0.543	0I14018	EPA 6010C	09/15/10 10:43	JDH	
Mercury [7439-97-6] ^	0.00521	U	mg/kg dry	1	0.00521	0.0109	0I14017	EPA 7471B	09/14/10 16:50	NLH	
Nickel [7440-02-0] ^	**0.446**	J	mg/kg dry	1	0.391	2.71	0I14018	EPA 6010C	09/15/10 10:43	JDH	
Selenium [7782-49-2] ^	**0.347**	JB	mg/kg dry	1	0.109	0.543	0I14018	EPA 6010C	09/15/10 10:43	JDH	J-01
Silver [7440-22-4] ^	0.109	U	mg/kg dry	1	0.109	0.543	0I14018	EPA 6010C	09/15/10 10:43	JDH	
Thallium [7440-28-0] ^	**0.148**	J	mg/kg dry	1	0.109	0.543	0I14018	EPA 6010C	09/15/10 10:43	JDH	
Zinc [7440-66-6] ^	**1.42**	J	mg/kg dry	1	1.19	2.71	0I14018	EPA 6010C	09/15/10 10:43	JDH	

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 0I09003 - EPA 5035_MS

Blank (0I09003-BLK1) Prepared: 09/09/2010 07:19 Analyzed: 09/09/2010 10:50

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 0I09003 - EPA 5035_MS

Blank (0I09003-BLK1) Continued Prepared: 09/09/2010 07:19 Analyzed: 09/09/2010 10:50

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	**0.00062**	**J**	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	*53*			*ug/L*	*50.0*		*106*	*61-118*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*100*	*66-114*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*102*	*63-118*			

LCS (0I09003-BS1) Prepared: 09/09/2010 07:19 Analyzed: 09/09/2010 11:18

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		105	64-133			
Benzene	20		1.0	ug/L	20.0		102	79-129			
Chlorobenzene	21		1.0	ug/L	20.0		104	79-121			
Toluene	22	B	1.0	ug/L	20.0		110	77-120			
Trichloroethene	22		1.0	ug/L	20.0		108	78-118			
Surrogate: 4-Bromofluorobenzene	*51*			*ug/L*	*50.0*		*101*	*61-118*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*94*	*66-114*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*103*	*63-118*			

Matrix Spike (0I09003-MS1) Prepared: 09/09/2010 07:19 Analyzed: 09/09/2010 11:47

Source: C010313-09

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	0.30 U	106	64-133			
Benzene	20		1.0	ug/L	20.0	0.17 U	102	79-129			
Chlorobenzene	22		1.0	ug/L	20.0	0.17 U	108	79-121			
Toluene	22	B	1.0	ug/L	20.0	0.59	107	77-120			
Trichloroethene	21		1.0	ug/L	20.0	0.27 U	106	78-118			
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*106*	*61-118*			
Surrogate: Dibromofluoromethane	*49*			*ug/L*	*50.0*		*97*	*66-114*			
Surrogate: Toluene-d8	*53*			*ug/L*	*50.0*		*106*	*63-118*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I09003 - EPA 5035_MS

Matrix Spike Dup (0I09003-MSD1) Prepared: 09/09/2010 07:19 Analyzed: 09/09/2010 12:16

Source: C010313-09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.30 U	108	64-133	2	23	
Benzene	21		1.0	ug/L	20.0	0.17 U	105	79-129	3	23	
Chlorobenzene	22		1.0	ug/L	20.0	0.17 U	108	79-121	0.05	25	
Toluene	22	B	1.0	ug/L	20.0	0.59	108	77-120	0.9	23	
Trichloroethene	22		1.0	ug/L	20.0	0.27 U	109	78-118	2	24	
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*107*	*61-118*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*101*	*66-114*			
Surrogate: Toluene-d8	*54*			*ug/L*	*50.0*		*107*	*63-118*			

Batch 0I10007 - EPA 5030B_MS

Blank (0I10007-BLK1) Prepared: 09/10/2010 08:38 Analyzed: 09/10/2010 12:20

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 0I10007 - EPA 5030B_MS

Blank (0I10007-BLK1) Continued Prepared: 09/10/2010 08:38 Analyzed: 09/10/2010 12:20

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	*46*			*ug/L*	*50.0*		*93*	*68-117*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*98*	*69-110*			

LCS (0I10007-BS1) Prepared: 09/10/2010 08:38 Analyzed: 09/10/2010 12:49

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	19		1.0	ug/L	20.0		93	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		97	83-117			
Toluene	20		1.0	ug/L	20.0		101	71-118			
Trichloroethene	19		1.0	ug/L	20.0		93	75-115			
Surrogate: 4-Bromofluorobenzene	*51*			*ug/L*	*50.0*		*102*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*68-117*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I10007 - EPA 5030B_MS

LCS (0I10007-BS1) Continued Prepared: 09/10/2010 08:38 Analyzed: 09/10/2010 12:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*98*	*69-110*			

Matrix Spike (0I10007-MS1) Prepared: 09/10/2010 08:38 Analyzed: 09/10/2010 13:18

Source: C010180-06

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	20		1.0	ug/L	20.0	0.20 U	98	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	103	83-117			
Toluene	21		1.0	ug/L	20.0	0.27 U	106	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.38 U	98	75-115			
Surrogate: 4-Bromofluorobenzene	*52*			*ug/L*	*50.0*		*103*	*51-122*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*93*	*68-117*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*101*	*69-110*			

Matrix Spike Dup (0I10007-MSD1) Prepared: 09/10/2010 08:38 Analyzed: 09/10/2010 13:47

Source: C010180-06

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	0.24 U	92	75-133	3	20	
Benzene	19		1.0	ug/L	20.0	0.20 U	95	81-134	2	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	101	83-117	2	16	
Toluene	21		1.0	ug/L	20.0	0.27 U	104	71-118	1	17	
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	97	75-115	1	18	
Surrogate: 4-Bromofluorobenzene	*52*			*ug/L*	*50.0*		*103*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*93*	*68-117*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*99*	*69-110*			

Batch 0I11006 - EPA 5030B_MS

Blank (0I11006-BLK1) Prepared: 09/11/2010 10:21 Analyzed: 09/11/2010 14:49

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							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I11006 - EPA 5030B_MS

Blank (0I11006-BLK1) Continued Prepared: 09/11/2010 10:21 Analyzed: 09/11/2010 14:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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							
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							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I11006 - EPA 5030B_MS

Blank (0I11006-BLK1) Continued Prepared: 09/11/2010 10:21 Analyzed: 09/11/2010 14:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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	*52*			*ug/L*	*50.0*		*104*	*51-122*			
Surrogate: Dibromofluoromethane	*51*			*ug/L*	*50.0*		*102*	*68-117*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*99*	*69-110*			

LCS (0I11006-BS1) Prepared: 09/11/2010 10:21 Analyzed: 09/11/2010 16:43

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	75-133			
Benzene	18		1.0	ug/L	20.0		92	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		99	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	*54*			*ug/L*	*50.0*		*108*	*51-122*			
Surrogate: Dibromofluoromethane	*48*			*ug/L*	*50.0*		*96*	*68-117*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*100*	*69-110*			

Matrix Spike (0I11006-MS1) Prepared: 09/11/2010 10:21 Analyzed: 09/11/2010 15:46

Source: C010549-03

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	0.24 U	91	75-133			
Benzene	18		1.0	ug/L	20.0	0.20 U	92	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.27 U	97	83-117			
Toluene	20		1.0	ug/L	20.0	0.27 U	99	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	97	75-115			
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*106*	*51-122*			
Surrogate: Dibromofluoromethane	*49*			*ug/L*	*50.0*		*98*	*68-117*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*102*	*69-110*			

Matrix Spike Dup (0I11006-MSD1) Prepared: 09/11/2010 10:21 Analyzed: 09/11/2010 16:15

Source: C010549-03

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	0.24 U	97	75-133	6	20	
Benzene	18		1.0	ug/L	20.0	0.20 U	89	81-134	3	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.27 U	95	83-117	2	16	
Toluene	19		1.0	ug/L	20.0	0.27 U	97	71-118	2	17	
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	94	75-115	3	18	
Surrogate: 4-Bromofluorobenzene	*52*			*ug/L*	*50.0*		*105*	*51-122*			
Surrogate: Dibromofluoromethane	*49*			*ug/L*	*50.0*		*98*	*68-117*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*100*	*69-110*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I15005 - EPA 5035_MS

Blank (0I15005-BLK1) Prepared: 09/15/2010 08:26 Analyzed: 09/15/2010 14:19

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 0I15005 - EPA 5035_MS

Blank (0I15005-BLK1) Continued Prepared: 09/15/2010 08:26 Analyzed: 09/15/2010 14:19

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	*52*			*ug/L*	*50.0*		*104*	*61-118*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*101*	*66-114*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*101*	*63-118*			

LCS (0I15005-BS1) Prepared: 09/15/2010 08:26 Analyzed: 09/15/2010 14:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0		108	64-133			
Benzene	19		1.0	ug/L	20.0		94	79-129			
Chlorobenzene	21		1.0	ug/L	20.0		107	79-121			
Toluene	21		1.0	ug/L	20.0		107	77-120			
Trichloroethene	22		1.0	ug/L	20.0		111	78-118			
Surrogate: 4-Bromofluorobenzene	*54*			*ug/L*	*50.0*		*107*	*61-118*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*101*	*66-114*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*102*	*63-118*			

Matrix Spike (0I15005-MS1) Prepared: 09/15/2010 08:26 Analyzed: 09/15/2010 15:16

Source: C010771-01

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	0.30 U	106	64-133			
Benzene	19		1.0	ug/L	20.0	0.17 U	95	79-129			
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	107	79-121			
Toluene	21		1.0	ug/L	20.0	0.20 U	104	77-120			
Trichloroethene	24		1.0	ug/L	20.0	0.27 U	119	78-118			QM-07
Surrogate: 4-Bromofluorobenzene	*54*			*ug/L*	*50.0*		*108*	*61-118*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*100*	*66-114*			
Surrogate: Toluene-d8	*52*			*ug/L*	*50.0*		*103*	*63-118*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I15005 - EPA 5035_MS

Matrix Spike Dup (0I15005-MSD1) Prepared: 09/15/2010 08:26 Analyzed: 09/15/2010 15:45

Source: C010771-01

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	0.30 U	104	64-133	2	23	
Benzene	19		1.0	ug/L	20.0	0.17 U	93	79-129	3	23	
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	104	79-121	3	25	
Toluene	21		1.0	ug/L	20.0	0.20 U	105	77-120	0.5	23	
Trichloroethene	22		1.0	ug/L	20.0	0.27 U	108	78-118	10	24	
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*107*	*61-118*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*95*	*66-114*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*101*	*63-118*			

Tentatively Identified Compounds by Volatile GCMS - Quality Control

Batch 0I09003 - EPA 5035_MS

Blank (0I09003-BLK1) Prepared: 09/09/2010 07:19 Analyzed: 09/09/2010 10:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon Dioxide	**0.10**	**J**		mg/kg wet							
Cyclopentasiloxane, decamet...	**0.0053**	**J**		mg/kg wet							
Cyclotetrasiloxane, octamet...	**0.018**	**J**		mg/kg wet							

Batch 0I15005 - EPA 5035_MS

Blank (0I15005-BLK1) Prepared: 09/15/2010 08:26 Analyzed: 09/15/2010 14:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon Dioxide	**0.053**	**J**		mg/kg wet							
Cyclopentasiloxane, decamet...	**0.0070**	**J**		mg/kg wet							
Cyclotetrasiloxane, octamet...	**0.017**	**J**		mg/kg wet							

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 0I10001 - EPA 3510C_MS

Blank (0I10001-BLK1) Prepared: 09/10/2010 06:21 Analyzed: 09/10/2010 11:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	1.2	U	10	ug/L							
1,2-Dichlorobenzene	1.1	U	10	ug/L							
1,3-Dichlorobenzene	1.1	U	10	ug/L							
1,4-Dichlorobenzene	1.0	U	10	ug/L							
1-Methylnaphthalene	1.7	U	10	ug/L							
2,4,5-Trichlorophenol	1.0	U	10	ug/L							
2,4,6-Trichlorophenol	1.1	U	10	ug/L							
2,4-Dichlorophenol	1.4	U	10	ug/L							
2,4-Dimethylphenol	1.3	U	10	ug/L							
2,4-Dinitrophenol	2.6	U	10	ug/L							
2,4-Dinitrotoluene	2.4	U	10	ug/L							
2,6-Dinitrotoluene	1.5	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 0I10001 - EPA 3510C_MS

Blank (0I10001-BLK1) Continued Prepared: 09/10/2010 06:21 Analyzed: 09/10/2010 11:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chloronaphthalene	1.0	U	10	ug/L							
2-Chlorophenol	1.2	U	10	ug/L							
2-Methyl-4,6-dinitrophenol	2.9	U	10	ug/L							
2-Methylnaphthalene	1.5	U	10	ug/L							
2-Methylphenol	1.4	U	10	ug/L							
2-Nitroaniline	1.5	U	10	ug/L							
2-Nitrophenol	1.1	U	10	ug/L							
3 & 4-Methylphenol	1.6	U	10	ug/L							
3,3'-Dichlorobenzidine	3.3	U	10	ug/L							
3-Nitroaniline	2.1	U	10	ug/L							
4-Bromophenyl-phenylether	1.0	U	10	ug/L							
4-Chloro-3-methylphenol	1.5	U	10	ug/L							
4-Chloroaniline	1.2	U	10	ug/L							
4-Chlorophenyl-phenylether	1.6	U	10	ug/L							
4-Nitroaniline	3.2	U	10	ug/L							
4-Nitrophenol	2.0	U	10	ug/L							
Acenaphthene	1.4	U	10	ug/L							
Acenaphthylene	1.2	U	10	ug/L							
Anthracene	1.6	U	10	ug/L							
Benzidine	1.6	U	10	ug/L							
Benzo(a)anthracene	1.3	U	10	ug/L							
Benzo(a)pyrene	1.3	U	10	ug/L							
Benzo(b)fluoranthene	1.0	U	10	ug/L							
Benzo(g,h,i)perylene	2.4	U	10	ug/L							
Benzo(k)fluoranthene	1.3	U	10	ug/L							
Benzoic acid	1.0	U	50	ug/L							QV-02
Benzyl alcohol	1.4	U	10	ug/L							
Bis(2-chloroethoxy)methane	1.4	U	10	ug/L							
Bis(2-chloroethyl)ether	1.2	U	10	ug/L							
Bis(2-chloroisopropyl)ether	1.3	U	10	ug/L							
Bis(2-ethylhexyl)phthalate	1.7	U	5.0	ug/L							
Butylbenzylphthalate	2.0	U	10	ug/L							
Chrysene	2.0	U	10	ug/L							
Dibenzo(a,h)anthracene	2.3	U	10	ug/L							
Dibenzofuran	1.4	U	10	ug/L							
Diethylphthalate	2.1	U	10	ug/L							
Dimethylphthalate	1.4	U	10	ug/L							
Di-n-butylphthalate	1.5	U	10	ug/L							
Di-n-octylphthalate	3.1	U	10	ug/L							
Fluoranthene	2.1	U	10	ug/L							
Fluorene	1.7	U	10	ug/L							
Hexachlorobenzene	1.0	U	10	ug/L							
Hexachlorobutadiene	1.2	U	10	ug/L							
Hexachlorocyclopentadiene	1.3	U	10	ug/L							QV-02
Hexachloroethane	1.1	U	10	ug/L							
Indeno(1,2,3-cd)pyrene	2.2	U	10	ug/L							
Isophorone	1.3	U	10	ug/L							
Naphthalene	1.3	U	10	ug/L							
Nitrobenzene	1.2	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 0I10001 - EPA 3510C_MS

Blank (0I10001-BLK1) Continued Prepared: 09/10/2010 06:21 Analyzed: 09/10/2010 11:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
N-Nitrosodimethylamine	1.3	U	10	ug/L							
N-Nitroso-di-n-propylamine	1.5	U	10	ug/L							
N-nitrosodiphenylamine/Diphenylamine	2.1	U	10	ug/L							
Pentachlorophenol	1.8	U	10	ug/L							
Phenanthrene	1.4	U	10	ug/L							
Phenol	1.4	U	10	ug/L							
Pyrene	2.1	U	10	ug/L							
Pyridine	1.3	U	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	*58*			*ug/L*	*100*		*58*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*30*			*ug/L*	*50.0*		*60*	*10-149*			
Surrogate: 2-Fluorophenol	*47*			*ug/L*	*100*		*47*	*10-110*			
Surrogate: Nitrobenzene-d5	*31*			*ug/L*	*50.0*		*63*	*10-149*			
Surrogate: Phenol-d5	*41*			*ug/L*	*100*		*41*	*10-88*			
Surrogate: Terphenyl-d14	*47*			*ug/L*	*50.0*		*94*	*10-188*			

LCS (0I10001-BS1) Prepared: 09/10/2010 06:21 Analyzed: 09/10/2010 11:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	24		10	ug/L	50.0		48	27-90			
1,4-Dichlorobenzene	23		10	ug/L	50.0		45	23-84			
2,4-Dinitrotoluene	48		10	ug/L	50.0		95	67-132			
2-Chlorophenol	28		10	ug/L	50.0		56	40-109			
4-Chloro-3-methylphenol	38		10	ug/L	50.0		75	58-121			
4-Nitrophenol	37		10	ug/L	50.0		75	33-105			
Acenaphthene	34		10	ug/L	50.0		68	39-125			
N-Nitroso-di-n-propylamine	32		10	ug/L	50.0		63	48-126			
Pentachlorophenol	27		10	ug/L	50.0		53	51-135			
Phenol	19		10	ug/L	50.0		38	19-78			
Pyrene	49		10	ug/L	50.0		98	44-137			
Surrogate: 2,4,6-Tnbromophenol	*86*			*ug/L*	*100*		*86*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*33*			*ug/L*	*50.0*		*65*	*10-149*			
Surrogate: 2-Fluorophenol	*46*			*ug/L*	*100*		*46*	*10-110*			
Surrogate: Nitrobenzene-d5	*31*			*ug/L*	*50.0*		*63*	*10-149*			
Surrogate: Phenol-d5	*40*			*ug/L*	*100*		*40*	*10-88*			
Surrogate: Terphenyl-d14	*50*			*ug/L*	*50.0*		*101*	*10-188*			

Matrix Spike (0I10001-MS1) Prepared: 09/10/2010 06:21 Analyzed: 09/10/2010 12:45

Source: C010313-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	30		10	ug/L	50.0	1.2 U	59	27-90			
1,4-Dichlorobenzene	28		10	ug/L	50.0	1.0 U	56	23-84			
2,4-Dinitrotoluene	49		10	ug/L	50.0	2.4 U	98	67-132			
2-Chlorophenol	32		10	ug/L	50.0	1.2 U	65	40-109			
4-Chloro-3-methylphenol	41		10	ug/L	50.0	1.5 U	82	58-121			
4-Nitrophenol	34		10	ug/L	50.0	2.0 U	69	33-105			
Acenaphthene	35		10	ug/L	50.0	1.4 U	71	39-125			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 0I10001 - EPA 3510C_MS

Matrix Spike (0I10001-MS1) Continued Prepared: 09/10/2010 06:21 Analyzed: 09/10/2010 12:45

Source: C010313-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
N-Nitroso-di-n-propylamine	37		10	ug/L	50.0	1.5 U	74	48-126			
Pentachlorophenol	28		10	ug/L	50.0	1.8 U	55	51-135			
Phenol	22		10	ug/L	50.0	1.4 U	43	19-78			
Pyrene	48		10	ug/L	50.0	2.1 U	96	44-137			
Surrogate: 2,4,6-Tribromophenol	*87*			*ug/L*	*100*		*87*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*36*			*ug/L*	*50.0*		*72*	*10-149*			
Surrogate: 2-Fluorophenol	*53*			*ug/L*	*100*		*53*	*10-110*			
Surrogate: Nitrobenzene-d5	*34*			*ug/L*	*50.0*		*68*	*10-149*			
Surrogate: Phenol-d5	*45*			*ug/L*	*100*		*45*	*10-88*			
Surrogate: Terphenyl-d14	*51*			*ug/L*	*50.0*		*102*	*10-188*			

Matrix Spike Dup (0I10001-MSD1) Prepared: 09/10/2010 06:21 Analyzed: 09/10/2010 13:18

Source: C010313-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	28		10	ug/L	50.0	1.2 U	56	27-90	6	43	
1,4-Dichlorobenzene	28		10	ug/L	50.0	1.0 U	55	23-84	2	39	
2,4-Dinitrotoluene	47		10	ug/L	50.0	2.4 U	94	67-132	4	17	
2-Chlorophenol	32		10	ug/L	50.0	1.2 U	64	40-109	2	22	
4-Chloro-3-methylphenol	40		10	ug/L	50.0	1.5 U	80	58-121	2	22	
4-Nitrophenol	34		10	ug/L	50.0	2.0 U	69	33-105	0.6	27	
Acenaphthene	35		10	ug/L	50.0	1.4 U	70	39-125	0.8	25	
N-Nitroso-di-n-propylamine	35		10	ug/L	50.0	1.5 U	70	48-126	7	23	
Pentachlorophenol	27		10	ug/L	50.0	1.8 U	53	51-135	4	11	
Phenol	24		10	ug/L	50.0	1.4 U	48	19-78	11	18	
Pyrene	46		10	ug/L	50.0	2.1 U	92	44-137	5	24	
Surrogate: 2,4,6-Tribromophenol	*87*			*ug/L*	*100*		*87*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*35*			*ug/L*	*50.0*		*71*	*10-149*			
Surrogate: 2-Fluorophenol	*51*			*ug/L*	*100*		*51*	*10-110*			
Surrogate: Nitrobenzene-d5	*35*			*ug/L*	*50.0*		*71*	*10-149*			
Surrogate: Phenol-d5	*44*			*ug/L*	*100*		*44*	*10-88*			
Surrogate: Terphenyl-d14	*47*			*ug/L*	*50.0*		*94*	*10-188*			

Batch 0I16021 - EPA 3550C_MS

Blank (0I16021-BLK1) Prepared: 09/16/2010 14:49 Analyzed: 09/20/2010 16:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	0.023	U	0.33	mg/kg wet							
1,2-Dichlorobenzene	0.032	U	0.33	mg/kg wet							
1,3-Dichlorobenzene	0.030	U	0.33	mg/kg wet							
1,4-Dichlorobenzene	0.027	U	0.33	mg/kg wet							
1-Methylnaphthalene	0.035	U	0.33	mg/kg wet							
2,4,5-Trichlorophenol	0.033	U	0.33	mg/kg wet							
2,4,6-Trichlorophenol	0.032	U	0.33	mg/kg wet							
2,4-Dichlorophenol	0.025	U	0.33	mg/kg wet							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 0I16021 - EPA 3550C_MS

Blank (0I16021-BLK1) Continued Prepared: 09/16/2010 14:49 Analyzed: 09/20/2010 16:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-Dimethylphenol	0.059	U	0.33	mg/kg wet							
2,4-Dinitrophenol	0.047	U	0.33	mg/kg wet							
2,4-Dinitrotoluene	0.031	U	0.33	mg/kg wet							
2,6-Dinitrotoluene	0.025	U	0.33	mg/kg wet							
2-Chloronaphthalene	0.024	U	0.33	mg/kg wet							
2-Chlorophenol	0.029	U	0.33	mg/kg wet							
2-Methyl-4,6-dinitrophenol	0.050	U	0.33	mg/kg wet							
2-Methylnaphthalene	0.037	U	0.33	mg/kg wet							
2-Methylphenol	0.038	U	0.33	mg/kg wet							
2-Nitroaniline	0.030	U	0.33	mg/kg wet							
2-Nitrophenol	0.033	U	0.33	mg/kg wet							
3 & 4-Methylphenol	0.025	U	0.33	mg/kg wet							
3,3'-Dichlorobenzidine	0.042	U	0.33	mg/kg wet							
3-Nitroaniline	0.044	U	0.33	mg/kg wet							
4-Bromophenyl-phenylether	0.025	U	0.33	mg/kg wet							
4-Chloro-3-methylphenol	0.028	U	0.33	mg/kg wet							
4-Chloroaniline	0.030	U	0.33	mg/kg wet							
4-Chlorophenyl-phenylether	0.025	U	0.33	mg/kg wet							
4-Nitroaniline	0.059	U	0.33	mg/kg wet							
4-Nitrophenol	0.042	U	0.33	mg/kg wet							
Acenaphthene	0.025	U	0.33	mg/kg wet							
Acenaphthylene	0.025	U	0.33	mg/kg wet							
Anthracene	0.033	U	0.33	mg/kg wet							
Benzidine	0.11	U	0.33	mg/kg wet							QV-01
Benzo(a)anthracene	0.025	U	0.33	mg/kg wet							
Benzo(a)pyrene	0.027	U	0.33	mg/kg wet							
Benzo(b)fluoranthene	0.027	U	0.33	mg/kg wet							
Benzo(g,h,i)perylene	0.039	U	0.33	mg/kg wet							
Benzo(k)fluoranthene	0.027	U	0.33	mg/kg wet							
Benzoic acid	0.11	U	1.7	mg/kg wet							
Benzyl alcohol	0.066	U	0.33	mg/kg wet							
Bis(2-chloroethoxy)methane	0.021	U	0.33	mg/kg wet							
Bis(2-chloroethyl)ether	0.050	U	0.33	mg/kg wet							
Bis(2-chloroisopropyl)ether	0.026	U	0.33	mg/kg wet							
Bis(2-ethylhexyl)phthalate	0.037	U	0.33	mg/kg wet							
Butylbenzylphthalate	0.034	U	0.33	mg/kg wet							QV-02
Chrysene	0.025	U	0.33	mg/kg wet							
Dibenzo(a,h)anthracene	0.041	U	0.33	mg/kg wet							
Dibenzofuran	0.025	U	0.33	mg/kg wet							
Diethylphthalate	0.025	U	0.33	mg/kg wet							
Dimethylphthalate	0.025	U	0.33	mg/kg wet							
Di-n-butylphthalate	0.031	U	0.33	mg/kg wet							
Di-n-octylphthalate	0.027	U	0.33	mg/kg wet							
Fluoranthene	0.043	U	0.33	mg/kg wet							
Fluorene	0.025	U	0.33	mg/kg wet							
Hexachlorobenzene	0.025	U	0.33	mg/kg wet							
Hexachlorobutadiene	0.028	U	0.33	mg/kg wet							
Hexachlorocyclopentadiene	0.043	U	0.33	mg/kg wet							
Hexachloroethane	0.033	U	0.33	mg/kg wet							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 0I16021 - EPA 3550C_MS

Blank (0I16021-BLK1) Continued Prepared: 09/16/2010 14:49 Analyzed: 09/20/2010 16:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Indeno(1,2,3-cd)pyrene	0.038	U	0.33	mg/kg wet							
Isophorone	0.016	U	0.33	mg/kg wet							
Naphthalene	0.025	U	0.33	mg/kg wet							
Nitrobenzene	0.025	U	0.33	mg/kg wet							
N-Nitrosodimethylamine	0.027	U	0.33	mg/kg wet							
N-Nitroso-di-n-propylamine	0.017	U	0.33	mg/kg wet							
N-nitrosodiphenylamine/Diphenylamine	0.026	U	0.33	mg/kg wet							
Pentachlorophenol	0.025	U	0.33	mg/kg wet							
Phenanthrene	0.026	U	0.33	mg/kg wet							
Phenol	0.025	U	0.33	mg/kg wet							
Pyrene	0.048	U	0.33	mg/kg wet							
Pyridine	0.12	U	0.33	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*2.1*			*mg/kg wet*	*3.33*		*64*	*28-130*			
Surrogate: 2-Fluorobiphenyl	*1.4*			*mg/kg wet*	*1.67*		*84*	*56-120*			
Surrogate: 2-Fluorophenol	*2.5*			*mg/kg wet*	*3.33*		*75*	*49-126*			
Surrogate: Nitrobenzene-d5	*1.4*			*mg/kg wet*	*1.67*		*86*	*50-117*			
Surrogate: Phenol-d5	*2.7*			*mg/kg wet*	*3.33*		*80*	*56-120*			
Surrogate: Terphenyl-d14	*1.8*			*mg/kg wet*	*1.67*		*108*	*36-151*			

LCS (0I16021-BS1) Prepared: 09/16/2010 14:49 Analyzed: 09/20/2010 16:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	1.4		0.33	mg/kg wet	1.67		85	51-121			
1,4-Dichlorobenzene	1.4		0.33	mg/kg wet	1.67		84	48-118			
2,4-Dinitrotoluene	1.7		0.33	mg/kg wet	1.67		103	63-127			
2-Chlorophenol	1.4		0.33	mg/kg wet	1.67		86	56-120			
4-Chloro-3-methylphenol	1.6		0.33	mg/kg wet	1.67		94	59-121			
4-Nitrophenol	1.8		0.33	mg/kg wet	1.67		107	73-147			
Acenaphthene	1.4		0.33	mg/kg wet	1.67		87	64-131			
N-Nitroso-di-n-propylamine	1.5		0.33	mg/kg wet	1.67		90	55-135			
Pentachlorophenol	1.1		0.33	mg/kg wet	1.67		64	45-117			
Phenol	1.5		0.33	mg/kg wet	1.67		87	54-121			
Pyrene	1.6		0.33	mg/kg wet	1.67		97	65-146			
Surrogate: 2,4,6-Tribromophenol	*3.0*			*mg/kg wet*	*3.33*		*91*	*28-130*			
Surrogate: 2-Fluorobiphenyl	*1.4*			*mg/kg wet*	*1.67*		*84*	*56-120*			
Surrogate: 2-Fluorophenol	*2.7*			*mg/kg wet*	*3.33*		*80*	*49-126*			
Surrogate: Nitrobenzene-d5	*1.5*			*mg/kg wet*	*1.67*		*89*	*50-117*			
Surrogate: Phenol-d5	*2.8*			*mg/kg wet*	*3.33*		*83*	*56-120*			
Surrogate: Terphenyl-d14	*1.7*			*mg/kg wet*	*1.67*		*100*	*36-151*			

Matrix Spike (0I16021-MS1) Prepared: 09/16/2010 14:49 Analyzed: 09/20/2010 17:57

Source: C010147-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	1.5		0.37	mg/kg dry	1.89	0.026 U	82	51-121			
1,4-Dichlorobenzene	1.5		0.37	mg/kg dry	1.89	0.031 U	77	48-118			
2,4-Dinitrotoluene	1.9		0.37	mg/kg dry	1.89	0.035 U	98	63-127			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 0I16021 - EPA 3550C_MS

Matrix Spike (0I16021-MS1) Continued Prepared: 09/16/2010 14:49 Analyzed: 09/20/2010 17:57

Source: C010147-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	1.6		0.37	mg/kg dry	1.89	0.033 U	83	56-120			
4-Chloro-3-methylphenol	1.7		0.37	mg/kg dry	1.89	0.032 U	90	59-121			
4-Nitrophenol	2.1		0.37	mg/kg dry	1.89	0.048 U	112	73-147			
Acenaphthene	1.7		0.37	mg/kg dry	1.89	0.028 U	87	64-131			
N-Nitroso-di-n-propylamine	1.6		0.37	mg/kg dry	1.89	0.019 U	86	55-135			
Pentachlorophenol	1.3		0.37	mg/kg dry	1.89	0.028 U	68	45-117			
Phenol	1.6		0.37	mg/kg dry	1.89	0.028 U	87	54-121			
Pyrene	1.6		0.37	mg/kg dry	1.89	0.054 U	87	65-146			
Surrogate: 2,4,6-Tribromophenol	*3.5*			*mg/kg dry*	*3.78*		*94*	*28-130*			
Surrogate: 2-Fluorobiphenyl	*1.6*			*mg/kg dry*	*1.89*		*84*	*56-120*			
Surrogate: 2-Fluorophenol	*2.9*			*mg/kg dry*	*3.78*		*75*	*49-126*			
Surrogate: Nitrobenzene-d5	*1.6*			*mg/kg dry*	*1.89*		*86*	*50-117*			
Surrogate: Phenol-d5	*3.1*			*mg/kg dry*	*3.78*		*82*	*56-120*			
Surrogate: Terphenyl-d14	*1.7*			*mg/kg dry*	*1.89*		*88*	*36-151*			

Matrix Spike Dup (0I16021-MSD1) Prepared: 09/16/2010 14:49 Analyzed: 09/20/2010 18:27

Source: C010147-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	1.6		0.37	mg/kg dry	1.89	0.026 U	82	51-121	0.9	10	
1,4-Dichlorobenzene	1.5		0.37	mg/kg dry	1.89	0.031 U	78	48-118	1	13	
2,4-Dinitrotoluene	1.9		0.37	mg/kg dry	1.89	0.035 U	98	63-127	0.4	10	
2-Chlorophenol	1.6		0.37	mg/kg dry	1.89	0.033 U	84	56-120	1	11	
4-Chloro-3-methylphenol	1.7		0.37	mg/kg dry	1.89	0.032 U	91	59-121	0.7	10	
4-Nitrophenol	2.1		0.37	mg/kg dry	1.89	0.048 U	113	73-147	0.7	10	
Acenaphthene	1.7		0.37	mg/kg dry	1.89	0.028 U	88	64-131	0.4	19	
N-Nitroso-di-n-propylamine	1.7		0.37	mg/kg dry	1.89	0.019 U	89	55-135	3	10	
Pentachlorophenol	1.3		0.37	mg/kg dry	1.89	0.028 U	69	45-117	1	10	
Phenol	1.7		0.37	mg/kg dry	1.89	0.028 U	88	54-121	0.5	13	
Pyrene	1.6		0.37	mg/kg dry	1.89	0.054 U	87	65-146	0.5	50	
Surrogate: 2,4,6-Tribromophenol	*3.5*			*mg/kg dry*	*3.78*		*92*	*28-130*			
Surrogate: 2-Fluorobiphenyl	*1.6*			*mg/kg dry*	*1.89*		*85*	*56-120*			
Surrogate: 2-Fluorophenol	*2.8*			*mg/kg dry*	*3.78*		*75*	*49-126*			
Surrogate: Nitrobenzene-d5	*1.6*			*mg/kg dry*	*1.89*		*86*	*50-117*			
Surrogate: Phenol-d5	*3.1*			*mg/kg dry*	*3.78*		*82*	*56-120*			
Surrogate: Terphenyl-d14	*1.6*			*mg/kg dry*	*1.89*		*86*	*36-151*			

Tentatively Identified Compounds by Semivolatile GCMS - Quality Control

Batch 0I16021 - EPA 3550C_MS

Blank (0I16021-BLK1) Prepared: 09/16/2010 14:49 Analyzed: 09/20/2010 16:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorocyclohexanol	**0.14**	**J**		mg/kg wet							
Ethane, 1,1,2,2-tetrachloro-	**0.30**	**J**		mg/kg wet							
Tentatively Identified Compounds	**0.0**	**U**		mg/kg wet							

QUALITY CONTROL

Tentatively Identified Compounds by Semivolatile GCMS - Quality Control

Batch 0I16021 - EPA 3550C_MS

Blank (0I16021-BLK1) Continued Prepared: 09/16/2010 14:49 Analyzed: 09/20/2010 16:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Unknown	**0.47**	**J**		mg/kg wet							

Organochlorine Pesticides by GC - Quality Control

Batch 0I10009 - EPA 3510C

Blank (0I10009-BLK1) Prepared: 09/10/2010 09:11 Analyzed: 09/10/2010 19:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.013	U	0.050	ug/L							
4,4'-DDE	0.012	U	0.050	ug/L							
4,4'-DDT	0.015	U	0.050	ug/L							
Aldrin	0.012	U	0.050	ug/L							
alpha-BHC	0.015	U	0.050	ug/L							
beta-BHC	0.012	U	0.050	ug/L							
Chlordane (tech)	0.20	U	0.50	ug/L							
Chlordane-alpha	0.014	U	0.050	ug/L							
Chlordane-gamma	0.012	U	0.050	ug/L							
delta-BHC	0.014	U	0.050	ug/L							
Dieldrin	0.0089	U	0.050	ug/L							
Endosulfan I	0.016	U	0.050	ug/L							
Endosulfan II	0.012	U	0.050	ug/L							
Endosulfan sulfate	0.012	U	0.050	ug/L							
Endrin	0.013	U	0.050	ug/L							
Endrin aldehyde	0.012	U	0.050	ug/L							
Endrin ketone	0.012	U	0.050	ug/L							
gamma-BHC	0.016	U	0.050	ug/L							
Heptachlor	0.012	U	0.050	ug/L							
Heptachlor epoxide	0.0089	U	0.050	ug/L							
Isodrin	0.013	U	0.050	ug/L							
Methoxychlor	0.016	U	0.050	ug/L							
Mirex	0.016	U	0.050	ug/L							
Toxaphene	0.22	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*1.3*			*ug/L*	*1.00*		*133*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.2*			*ug/L*	*1.00*		*120*	*37-149*			

LCS (0I10009-BS1) Prepared: 09/10/2010 09:11 Analyzed: 09/10/2010 20:09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.4		0.050	ug/L	1.00		141	37-139			QL-02
Dieldrin	1.3		0.050	ug/L	1.00		126	46-132			
Endrin	1.3		0.050	ug/L	1.00		130	43-133			
Surrogate: 2,4,5,6-TCMX	*1.3*			*ug/L*	*1.00*		*131*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.2*			*ug/L*	*1.00*		*121*	*37-149*			

Matrix Spike (0I10009-MS1) Prepared: 09/10/2010 09:11 Analyzed: 09/10/2010 20:22

Source: C010313-11

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 0I10009 - EPA 3510C

Matrix Spike (0I10009-MS1) Continued Prepared: 09/10/2010 09:11 Analyzed: 09/10/2010 20:22

Source: C010313-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.4		0.050	ug/L	1.00	0.015 U	144	37-139			QM-07
Dieldrin	1.2		0.050	ug/L	1.00	0.0089 U	119	46-132			
Endrin	1.2		0.050	ug/L	1.00	0.013 U	125	43-133			
Surrogate: 2,4,5,6-TCMX	*1.2*			*ug/L*	*1.00*		*123*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.1*			*ug/L*	*1.00*		*114*	*37-149*			

Matrix Spike Dup (0I10009-MSD1) Prepared: 09/10/2010 09:11 Analyzed: 09/10/2010 20:35

Source: C010313-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.4		0.050	ug/L	1.00	0.015 U	145	37-139	0.6	26	QM-07
Dieldrin	1.2		0.050	ug/L	1.00	0.0089 U	116	46-132	2	27	
Endrin	1.2		0.050	ug/L	1.00	0.013 U	121	43-133	3	26	
Surrogate: 2,4,5,6-TCMX	*1.2*			*ug/L*	*1.00*		*120*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.1*			*ug/L*	*1.00*		*112*	*37-149*			

Batch 0I14011 - EPA 3550C

Blank (0I14011-BLK1) Prepared: 09/14/2010 09:57 Analyzed: 09/16/2010 18:06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.00032	U	0.0017	mg/kg wet							
4,4'-DDE	0.00041	U	0.0017	mg/kg wet							
4,4'-DDT	0.00052	U	0.0017	mg/kg wet							
Aldrin	0.00036	U	0.0017	mg/kg wet							
alpha-BHC	0.00049	U	0.0017	mg/kg wet							
beta-BHC	0.00071	U	0.0017	mg/kg wet							
Chlordane (tech)	0.0011	U	0.033	mg/kg wet							
Chlordane-alpha	0.00046	U	0.0017	mg/kg wet							
Chlordane-gamma	0.00060	U	0.0017	mg/kg wet							
delta-BHC	0.00030	U	0.0017	mg/kg wet							
Dieldrin	0.00032	U	0.0017	mg/kg wet							
Endosulfan I	0.00041	U	0.0017	mg/kg wet							
Endosulfan II	0.00039	U	0.0017	mg/kg wet							
Endosulfan sulfate	0.00048	U	0.0017	mg/kg wet							
Endrin	0.00039	U	0.0017	mg/kg wet							
Endrin aldehyde	0.00034	U	0.0017	mg/kg wet							
Endrin ketone	0.00030	U	0.0017	mg/kg wet							
gamma-BHC	0.00042	U	0.0017	mg/kg wet							
Heptachlor	0.00046	U	0.0017	mg/kg wet							
Heptachlor epoxide	0.00043	U	0.0017	mg/kg wet							
Isodrin	0.00036	U	0.0017	mg/kg wet							
Methoxychlor	0.00042	U	0.0017	mg/kg wet							
Mirex	0.00056	U	0.0017	mg/kg wet							
Toxaphene	0.010	U	0.017	mg/kg wet							
Surrogate: 2,4,5,6-TCMX	*0.048*			*mg/kg wet*	*0.0333*		*145*	*59-137*			*QS-03*

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 0I14011 - EPA 3550C

Blank (0I14011-BLK1) Continued Prepared: 09/14/2010 09:57 Analyzed: 09/16/2010 18:06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Decachlorobiphenyl	*0.043*			*mg/kg wet*	*0.0333*		*130*	*60-140*			

LCS (0I14011-BS1) Prepared: 09/14/2010 09:57 Analyzed: 09/16/2010 18:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.057		0.0017	mg/kg wet	0.0333		170	38-142			QL-02
Dieldrin	0.045		0.0017	mg/kg wet	0.0333		134	51-129			QL-02
Endrin	0.047		0.0017	mg/kg wet	0.0333		140	51-126			QL-02
Surrogate: 2,4,5,6-TCMX	*0.051*			*mg/kg wet*	*0.0333*		*152*	*59-137*			*QS-03*
Surrogate: Decachlorobiphenyl	*0.045*			*mg/kg wet*	*0.0333*		*135*	*60-140*			

Matrix Spike (0I14011-MS1) Prepared: 09/14/2010 09:57 Analyzed: 09/16/2010 18:33

Source: C010080-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.073		0.0019	mg/kg dry	0.0379	0.00059 U	194	38-142			QM-07
Dieldrin	0.15		0.0019	mg/kg dry	0.0379	0.12	74	51-129			
Endrin	0.053		0.0019	mg/kg dry	0.0379	0.00044 U	139	51-126			QM-07
Surrogate: 2,4,5,6-TCMX	*0.058*			*mg/kg dry*	*0.0379*		*153*	*59-137*			*QS-03*
Surrogate: Decachlorobiphenyl	*0.049*			*mg/kg dry*	*0.0379*		*129*	*60-140*			

Matrix Spike Dup (0I14011-MSD1) Prepared: 09/14/2010 09:57 Analyzed: 09/16/2010 18:46

Source: C010080-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.072		0.0019	mg/kg dry	0.0379	0.00059 U	190	38-142	2	42	QM-07
Dieldrin	0.14		0.0019	mg/kg dry	0.0379	0.12	48	51-129	7	40	QM-07
Endrin	0.051		0.0019	mg/kg dry	0.0379	0.00044 U	135	51-126	3	33	QM-07
Surrogate: 2,4,5,6-TCMX	*0.054*			*mg/kg dry*	*0.0379*		*143*	*59-137*			*QS-03*
Surrogate: Decachlorobiphenyl	*0.046*			*mg/kg dry*	*0.0379*		*123*	*60-140*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 0I14017 - EPA 7471B

Blank (0I14017-BLK1) Prepared: 09/14/2010 10:54 Analyzed: 09/14/2010 16:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00480	U	0.0100	mg/kg wet							

LCS (0I14017-BS1) Prepared: 09/14/2010 10:54 Analyzed: 09/14/2010 16:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.259		0.0100	mg/kg wet	0.246		105	85-115			

Matrix Spike (0I14017-MS1) Prepared: 09/14/2010 10:54 Analyzed: 09/14/2010 16:14

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 0I14017 - EPA 7471B

Matrix Spike (0I14017-MS1) Continued Prepared: 09/14/2010 10:54 Analyzed: 09/14/2010 16:14

Source: C010147-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.283		0.0107	mg/kg dry	0.264	0.00515 U	107	85-115			

Matrix Spike Dup (0I14017-MSD1) Prepared: 09/14/2010 10:54 Analyzed: 09/14/2010 16:17

Source: C010147-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.269		0.0107	mg/kg dry	0.268	0.00515 U	100	85-115	5	15	

Post Spike (0I14017-PS1) Prepared: 09/14/2010 10:54 Analyzed: 09/14/2010 16:20

Source: C010147-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.98		0.200	ug/L	5.00	-0.420	108	75-125			

Batch 0I14018 - EPA 3050B

Blank (0I14018-BLK1) Prepared: 09/14/2010 11:05 Analyzed: 09/15/2010 10:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	**0.196**	**J**	1.00	mg/kg wet							
Arsenic	0.100	U	0.500	mg/kg wet							
Beryllium	0.0120	U	0.0500	mg/kg wet							
Cadmium	0.00960	U	0.0500	mg/kg wet							
Chromium	0.100	U	0.500	mg/kg wet							
Copper	0.190	U	0.500	mg/kg wet							
Lead	0.120	U	0.500	mg/kg wet							
Manganese	0.100	U	0.500	mg/kg wet							
Nickel	0.360	U	2.50	mg/kg wet							
Selenium	**0.137**	**J**	0.500	mg/kg wet							
Silver	0.100	U	0.500	mg/kg wet							
Thallium	0.100	U	0.500	mg/kg wet							
Zinc	1.10	U	2.50	mg/kg wet							

LCS (0I14018-BS1) Prepared: 09/14/2010 11:05 Analyzed: 09/15/2010 10:22

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	13.0	B	1.00	mg/kg wet	12.5		104	80-120			
Arsenic	25.8		0.500	mg/kg wet	25.0		103	80-120			
Beryllium	13.2		0.0500	mg/kg wet	12.5		105	80-120			
Cadmium	13.1		0.0500	mg/kg wet	12.5		104	80-120			
Chromium	26.5		0.500	mg/kg wet	25.0		106	80-120			
Copper	14.1		0.500	mg/kg wet	12.5		112	80-120			
Lead	26.0		0.500	mg/kg wet	25.0		104	80-120			
Manganese	13.1		0.500	mg/kg wet	12.5		105	80-120			
Nickel	26.1		2.50	mg/kg wet	25.0		104	80-120			
Selenium	25.7	B	0.500	mg/kg wet	25.0		103	80-120			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 0I14018 - EPA 3050B

LCS (0I14018-BS1) Continued Prepared: 09/14/2010 11:05 Analyzed: 09/15/2010 10:22

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Silver	13.3		0.500	mg/kg wet	12.5		107	80-120			
Thallium	13.0		0.500	mg/kg wet	12.5		104	80-120			
Zinc	26.1		2.50	mg/kg wet	25.0		104	80-120			

Matrix Spike (0I14018-MS1) Prepared: 09/14/2010 11:05 Analyzed: 09/15/2010 10:27

Source: C010324-12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	10.6	B	1.32	mg/kg dry	16.5	0.145 U	64	75-125			QM-07
Arsenic	36.3		0.661	mg/kg dry	33.0	1.83	104	75-125			
Beryllium	16.1		0.0661	mg/kg dry	16.5	0.161	97	75-125			
Cadmium	14.5		0.0661	mg/kg dry	16.5	0.240	86	75-125			
Chromium	45.3		0.661	mg/kg dry	33.0	11.2	103	75-125			
Copper	25.6		0.661	mg/kg dry	16.5	8.14	105	75-125			
Lead	28.3		0.661	mg/kg dry	33.0	0.159 U	86	75-125			
Manganese	177		0.661	mg/kg dry	16.5	160	101	75-125			
Nickel	35.0		3.30	mg/kg dry	33.0	5.96	88	75-125			
Selenium	34.0	B	0.661	mg/kg dry	33.0	0.132 U	103	75-125			
Silver	18.5		0.661	mg/kg dry	16.5	1.04	106	75-125			
Thallium	19.3		0.661	mg/kg dry	16.5	4.27	91	75-125			
Zinc	42.8		3.30	mg/kg dry	33.0	13.7	88	75-125			

Matrix Spike Dup (0I14018-MSD1) Prepared: 09/14/2010 11:05 Analyzed: 09/15/2010 10:29

Source: C010324-12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	10.9	B	1.32	mg/kg dry	16.5	0.145 U	66	75-125	2	20	QM-07
Arsenic	36.2		0.661	mg/kg dry	33.0	1.83	104	75-125	0.1	20	
Beryllium	16.0		0.0661	mg/kg dry	16.5	0.161	96	75-125	0.5	20	
Cadmium	14.4		0.0661	mg/kg dry	16.5	0.240	86	75-125	0.7	20	
Chromium	45.9		0.661	mg/kg dry	33.0	11.2	105	75-125	1	20	
Copper	25.8		0.661	mg/kg dry	16.5	8.14	107	75-125	0.9	20	
Lead	28.3		0.661	mg/kg dry	33.0	0.159 U	86	75-125	0.1	20	
Manganese	177		0.661	mg/kg dry	16.5	160	104	75-125	0.3	20	
Nickel	35.0		3.30	mg/kg dry	33.0	5.96	88	75-125	0.05	20	
Selenium	34.2	B	0.661	mg/kg dry	33.0	0.132 U	104	75-125	0.6	20	
Silver	18.6		0.661	mg/kg dry	16.5	1.04	107	75-125	0.6	20	
Thallium	19.8		0.661	mg/kg dry	16.5	4.27	94	75-125	3	20	
Zinc	42.8		3.30	mg/kg dry	33.0	13.7	88	75-125	0.03	20	

Post Spike (0I14018-PS1) Prepared: 09/14/2010 11:05 Analyzed: 09/15/2010 10:32

Source: C010324-12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.522	B	0.0200	mg/L	0.500	-0.00562	106	80-120			
Arsenic	1.11		0.0100	mg/L	1.00	0.0277	108	80-120			
Beryllium	0.510		0.00100	mg/L	0.500	0.00243	102	80-120			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 0I14018 - EPA 3050B

Post Spike (0I14018-PS1) Continued Prepared: 09/14/2010 11:05 Analyzed: 09/15/2010 10:32

Source: C010324-12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cadmium	0.464		0.00100	mg/L	0.500	0.00363	92	80-120			
Chromium	1.13		0.0100	mg/L	1.00	0.169	96	80-120			
Copper	0.710		0.0100	mg/L	0.500	0.123	117	80-120			
Lead	0.901		0.0100	mg/L	1.00	-0.0238	92	80-120			
Manganese	2.87		0.0100	mg/L	0.500	2.42	89	80-120			
Nickel	0.990		0.0500	mg/L	1.00	0.0901	90	80-120			
Selenium	1.06	B	0.0100	mg/L	1.00	-0.00884	107	80-120			
Silver	0.568		0.0100	mg/L	0.500	0.0157	110	80-120			
Thallium	0.541		0.0100	mg/L	0.500	0.0646	95	80-120			
Zinc	1.09		0.0500	mg/L	1.00	0.207	89	80-120			

Batch 0I15010 - EPA 245.1

Blank (0I15010-BLK1) Prepared: 09/15/2010 08:56 Analyzed: 09/15/2010 16:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (0I15010-BS1) Prepared: 09/15/2010 08:56 Analyzed: 09/15/2010 16:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.99		0.200	ug/L	5.00		100	85-115			

Matrix Spike (0I15010-MS1) Prepared: 09/15/2010 08:56 Analyzed: 09/15/2010 16:27

Source: C010137-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.86		0.200	ug/L	5.00	0.170 U	97	85-115			

Matrix Spike Dup (0I15010-MSD1) Prepared: 09/15/2010 08:56 Analyzed: 09/15/2010 16:30

Source: C010137-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.47		0.200	ug/L	5.00	0.170 U	89	85-115	8	15	

Post Spike (0I15010-PS1) Prepared: 09/15/2010 08:56 Analyzed: 09/15/2010 16:33

Source: C010137-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	3.91		0.200	ug/L	5.00	-0.211	82	75-125			

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 0I09018 - EPA 3030C

Blank (0I09018-BLK1) Prepared: 09/09/2010 12:08 Analyzed: 09/10/2010 12:23

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 0I09018 - EPA 3030C

Blank (0I09018-BLK1) Continued Prepared: 09/09/2010 12:08 Analyzed: 09/10/2010 12:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	**1.34**	**J**	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Manganese	1.10	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Selenium	2.70	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (0I09018-BS1) Prepared: 09/09/2010 12:08 Analyzed: 09/10/2010 12:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	508		10.0	ug/L	500		102	80-120			
Beryllium	248		1.00	ug/L	250		99	80-120			
Cadmium	245		1.00	ug/L	250		98	80-120			
Chromium	487	B	10.0	ug/L	500		97	80-120			
Copper	244		10.0	ug/L	250		98	80-120			
Manganese	239		10.0	ug/L	250		95	80-120			
Nickel	486		10.0	ug/L	500		97	80-120			
Selenium	526		10.0	ug/L	500		105	80-120			
Silver	249		10.0	ug/L	250		100	80-120			
Zinc	492		10.0	ug/L	500		98	80-120			

LCS Dup (0I09018-BSD1) Prepared: 09/09/2010 12:08 Analyzed: 09/10/2010 12:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	496		10.0	ug/L	500		99	80-120	2	20	
Beryllium	243		1.00	ug/L	250		97	80-120	2	20	
Cadmium	245		1.00	ug/L	250		98	80-120	0.02	20	
Chromium	487	B	10.0	ug/L	500		97	80-120	0.06	20	
Copper	244		10.0	ug/L	250		98	80-120	0.1	20	
Manganese	240		10.0	ug/L	250		96	80-120	0.4	20	
Nickel	487		10.0	ug/L	500		97	80-120	0.2	20	
Selenium	515		10.0	ug/L	500		103	80-120	2	20	
Silver	247		10.0	ug/L	250		99	80-120	0.9	20	
Zinc	498		10.0	ug/L	500		100	80-120	1	20	

Batch 0I10040 - EPA 3030C

Blank (0I10040-BLK1) Prepared: 09/10/2010 14:42 Analyzed: 09/14/2010 12:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Thallium	**0.338**	**J**	1.00	ug/L							

LCS (0I10040-BS1) Prepared: 09/10/2010 14:42 Analyzed: 09/14/2010 12:40

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 0I10040 - EPA 3030C

LCS (0I10040-BS1) Continued Prepared: 09/10/2010 14:42 Analyzed: 09/14/2010 12:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	24.5		2.00	ug/L	25.0		98	80-120			
Thallium	26.1	B	1.00	ug/L	25.0		104	80-120			

LCS Dup (0I10040-BSD1) Prepared: 09/10/2010 14:42 Analyzed: 09/14/2010 12:43

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	25.5		2.00	ug/L	25.0		102	80-120	4	20	
Thallium	27.0	B	1.00	ug/L	25.0		108	80-120	4	20	

Metals (acid extractable) by EPA 6000/7000 Series Methods - Quality Control

Batch 0I09018 - EPA 3030C

Blank (0I09018-BLK1) Prepared: 09/09/2010 12:08 Analyzed: 09/10/2010 12:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Lead	1.90	U	10.0	ug/L							

LCS (0I09018-BS1) Prepared: 09/09/2010 12:08 Analyzed: 09/10/2010 12:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Lead	503		10.0	ug/L	500		101	80-120			

LCS Dup (0I09018-BSD1) Prepared: 09/09/2010 12:08 Analyzed: 09/10/2010 12:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Lead	493		10.0	ug/L	500		99	80-120	2	20	

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.
J-01	Result is estimated due to positive results in the associated method blank.
QL-02	The associated laboratory control sample exhibited high bias; since the result is ND, the impact on data quality is minimal.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QS-03	Surrogate recovery outside acceptance limits
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.
QV-02	The associated continuing calibration verification standard exhibited low bias; the reported result should be considered to be a minimum estimate.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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Orlando FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
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(904) 296-3007 Fax (904) 296-6210

102 A Woodwinds Industrial Ct
Cary NC 27511
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Page 1 of 1

Client Name: STME INC (Smco 1)	Project Number: 1054-10-2003
Address: 7201 Spring forest Rd	Project Name/Desc: MARY Chappell Site
City/ST/Zip: Raleigh NC 27616	PO # / Billing Info:
Tel: 919 872 2660 Fax:	Reporting Contact: ED Wolosz yn
Sampler(s) Name, Affiliation (Print): Gerald Paul	Billing Contact: Acct Payable
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Analyses

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8081B, 8270D	8260B	Ag, As, Be, Cd, Cr, Cu, Mn, Ni, Pb (3030C) Sb, Se, Ti, Zn	Hg	Fecal (total)	8260B +Tics	8081B, 8270D + tics	Metals (14)			Sample Comments
-	MARY L. CHAPPELL WSW-1	9/8/10	1310	GRAB	DW	7	X	X	X	X	X						
	MARK Chappell WSW-2	↓	1010	↓	↓	6	X	X	X	X							
	William Brown WSW-5	↓	1050	↓	↓	6	X	X	X	X							
	GP-5 (0-5')	9/7/10	1320	↓	SO	4						X	X	X			
	GP-4 (29-33')	9/8/10	0938	↓	SO	4						X	X	X			
	GP-6 (5-9)	9/8/10	1330	↓	SO	4						X	X	X			

<-- Total # of Containers

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C010226

Sample Kit Prepared By	Date/Time	Relinquished By: [signature]	Date/Time: 9/8/10 1355	Received By: [signature]	Date/Time: 9/8/10 1355
Comments		Relinquished By	Date/Time	Received By: [signature]	Date/Time: 9/8/10 1525
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-539 1.6°C Blue 2.8°C

Condition Upon Receipt: X Acceptable ___ Unacceptable

Matrix: GW Groundwater SO-Soil SE-Sediment SW-Surface Water WW Wastewater A Air O-Other (detail in comments)

Preservation: Free H-HCl N-HNO3 S-H2SO4 ND-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are to accordance with the terms and conditions stated on the reverse of this form unless prior written agreement exists.

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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

Thursday, September 30, 2010

S&ME, Inc. (SM001)

Attn: Ed Woloszyn

3201 Spring Forest Road

Raleigh, NC 27616

RE: Laboratory Results for
Project Number: 1054-10-2003, Project Name/Desc: Mary Chappell Site
ENCO Workorder: C011558

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

Chuck Smith
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 46.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: GP-1	Lab ID: C011558-01	Sampled: 09/20/10 14:30	Received: 09/21/10 15:50
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	10/04/10	09/28/10 12:57	9/29/2010 06:56

Client ID: GP-2	Lab ID: C011558-02	Sampled: 09/20/10 15:00	Received: 09/21/10 15:50
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	10/04/10	09/28/10 12:57	9/29/2010 07:25

Client ID: GP-3	Lab ID: C011558-03	Sampled: 09/20/10 11:15	Received: 09/21/10 15:50
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	10/04/10	09/28/10 12:57	9/29/2010 07:53

Client ID: GP-4	Lab ID: C011558-04	Sampled: 09/20/10 11:45	Received: 09/21/10 15:50
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	10/04/10	09/28/10 12:57	9/29/2010 08:21

Client ID: GP-6	Lab ID: C011558-05	Sampled: 09/20/10 12:30	Received: 09/21/10 15:50
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	10/04/10	09/28/10 12:57	9/29/2010 08:50

Client ID: GP-7	Lab ID: C011558-06	Sampled: 09/20/10 14:15	Received: 09/21/10 15:50
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	10/04/10	09/28/10 12:57	9/29/2010 09:18

Client ID: Herman Russell - WSW-4	Lab ID: C011558-07	Sampled: 09/21/10 14:30	Received: 09/21/10 15:50
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	03/20/11	09/23/10 10:00	9/24/2010 12:00
EPA 6020A	03/20/11	09/23/10 10:02	9/27/2010 10:47
EPA 7470A	10/19/10	09/24/10 10:23	9/24/2010 16:31
EPA 8081B	09/28/10 11/06/10	09/27/10 07:10	9/27/2010 17:16
EPA 8260B	10/05/10	09/29/10 09:21	9/29/2010 16:40
EPA 8270D	09/28/10 11/03/10	09/24/10 06:57	9/24/2010 23:00

Client ID: Duplicate	Lab ID: C011558-08	Sampled: 09/20/10 00:00	Received: 09/21/10 15:50
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	10/04/10	09/29/10 09:21	9/29/2010 17:09

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Client ID: Equipment Blank	Lab ID: C011558-09	Sampled: 09/20/10 18:00	Received: 09/21/10 15:50
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 8260B	10/04/10	09/28/10 12:57	9/29/2010 09:46

Client ID: Trip Blank	Lab ID: C011558-10	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	09/28/10 12:57	9/29/2010 10:15

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SAMPLE DETECTION SUMMARY

Client ID: GP-1 — **Lab ID: C011558-01**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Chloroform	0.49	J	0.20	1.0	ug/L	EPA 8260B	

Client ID: GP-2 — **Lab ID: C011558-02**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Chloroform	0.92	J	0.20	1.0	ug/L	EPA 8260B	

Client ID: GP-3 — **Lab ID: C011558-03**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
2-Butanone	2.8	J	1.0	5.0	ug/L	EPA 8260B	
Acetone	19		1.5	5.0	ug/L	EPA 8260B	

Client ID: GP-4 — **Lab ID: C011558-04**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Acetone	71		1.5	5.0	ug/L	EPA 8260B	

Client ID: GP-6 — **Lab ID: C011558-05**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Acetone	3.5	J	1.5	5.0	ug/L	EPA 8260B	

Client ID: GP-7 — **Lab ID: C011558-06**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Acetone	3.3	J	1.5	5.0	ug/L	EPA 8260B	

Client ID: Herman Russell - WSW-4 — **Lab ID: C011558-07**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Bis(2-ethylhexyl)phthalate	1.8	J	1.7	5.0	ug/L	EPA 8270D	
Copper - Total	15.0		1.60	10.0	ug/L	EPA 6010C	
Selenium - Total	3.91	J	2.70	10.0	ug/L	EPA 6010C	
Silver - Total	1.91	J	1.90	10.0	ug/L	EPA 6010C	
Thallium - Total	0.918	JB	0.110	1.00	ug/L	EPA 6020A	J-01
Zinc - Total	8.40	J	3.80	10.0	ug/L	EPA 6010C	

Client ID: Duplicate — **Lab ID: C011558-08**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Acetone	5.7		1.5	5.0	ug/L	EPA 8260B	
Chloroform	0.86	J	0.20	1.0	ug/L	EPA 8260B	

Client ID: Equipment Blank — **Lab ID: C011558-09**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Chloromethane	0.56	J	0.34	1.0	ug/L	EPA 8260B	

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ANALYTICAL RESULTS

Description: GP-1
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C011558-01
Sampled: 09/20/10 14:30
Sampled By: Gerald Paul

Received: 09/21/10 15:50
Work Order: C011558

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	0I28027	EPA 8260B	09/29/10 06:56	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.25	U	ug/L	1	0.25	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.94	U	ug/L	1	0.94	5.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
2-Chlorotoluene [95-49-8] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
4-Chlorotoluene [106-43-4] ^	0.25	U	ug/L	1	0.25	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
4-Isopropyltoluene [99-87-6] ^	0.26	U	ug/L	1	0.26	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
Bromobenzene [108-86-1] ^	0.28	U	ug/L	1	0.28	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
Chloroform [67-66-3] ^	**0.49**	J	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	

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Description: GP-1
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C011558-01
Sampled: 09/20/10 14:30
Sampled By: Gerald Paul

Received: 09/21/10 15:50
Work Order: C011558

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	0I28027	EPA 8260B	09/29/10 06:56	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.48	U	ug/L	1	0.48	2.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
n-Butyl Benzene [104-51-8] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
n-Propyl Benzene [103-65-1] ^	0.30	U	ug/L	1	0.30	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
o-Xylene [95-47-6] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
sec-Butylbenzene [135-98-8] ^	0.24	U	ug/L	1	0.24	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
tert-Butylbenzene [98-06-6] ^	0.28	U	ug/L	1	0.28	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	0I28027	EPA 8260B	09/29/10 06:56	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*96 %*	*51-122*	*0I28027*	*EPA 8260B*	*09/29/10 06:56*	*JKG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*93 %*	*68-117*	*0I28027*	*EPA 8260B*	*09/29/10 06:56*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*97 %*	*69-110*	*0I28027*	*EPA 8260B*	*09/29/10 06:56*	*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: GP-2
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C011558-02
Sampled: 09/20/10 15:00
Sampled By: Gerald Paul

Received: 09/21/10 15:50
Work Order: C011558

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	0I28027	EPA 8260B	09/29/10 07:25	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.25	U	ug/L	1	0.25	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.94	U	ug/L	1	0.94	5.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
2-Chlorotoluene [95-49-8] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
4-Chlorotoluene [106-43-4] ^	0.25	U	ug/L	1	0.25	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
4-Isopropyltoluene [99-87-6] ^	0.26	U	ug/L	1	0.26	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
Bromobenzene [108-86-1] ^	0.28	U	ug/L	1	0.28	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
Chloroform [67-66-3] ^	**0.92**	J	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
Isopropylbenzene [98-82-8] ^	0.24	U	ug/L	1	0.24	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.48	U	ug/L	1	0.48	2.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	

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Description: GP-2
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C011558-02
Sampled: 09/20/10 15:00
Sampled By: Gerald Paul

Received: 09/21/10 15:50
Work Order: C011558

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	0I28027	EPA 8260B	09/29/10 07:25	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
n-Butyl Benzene [104-51-8] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
n-Propyl Benzene [103-65-1] ^	0.30	U	ug/L	1	0.30	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
o-Xylene [95-47-6] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
sec-Butylbenzene [135-98-8] ^	0.24	U	ug/L	1	0.24	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
tert-Butylbenzene [98-06-6] ^	0.28	U	ug/L	1	0.28	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	0I28027	EPA 8260B	09/29/10 07:25	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*95 %*	*51-122*	*0I28027*	*EPA 8260B*	*09/29/10 07:25*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*68-117*	*0I28027*	*EPA 8260B*	*09/29/10 07:25*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*97 %*	*69-110*	*0I28027*	*EPA 8260B*	*09/29/10 07:25*	*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: GP-3
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C011558-03
Sampled: 09/20/10 11:15
Sampled By: Gerald Paul

Received: 09/21/10 15:50
Work Order: C011558

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	0I28027	EPA 8260B	09/29/10 07:53	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.25	U	ug/L	1	0.25	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
2-Butanone [78-93-3] ^	**2.8**	J	ug/L	1	1.0	5.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.94	U	ug/L	1	0.94	5.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
2-Chlorotoluene [95-49-8] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
4-Chlorotoluene [106-43-4] ^	0.25	U	ug/L	1	0.25	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
4-Isopropyltoluene [99-87-6] ^	0.26	U	ug/L	1	0.26	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
Acetone [67-64-1] ^	**19**		ug/L	1	1.5	5.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
Bromobenzene [108-86-1] ^	0.28	U	ug/L	1	0.28	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
Isopropylbenzene [98-82-8] ^	0.24	U	ug/L	1	0.24	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.48	U	ug/L	1	0.48	2.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	

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Description: GP-3
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C011558-03
Sampled: 09/20/10 11:15
Sampled By: Gerald Paul

Received: 09/21/10 15:50
Work Order: C011558

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	0I28027	EPA 8260B	09/29/10 07:53	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
n-Butyl Benzene [104-51-8] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
n-Propyl Benzene [103-65-1] ^	0.30	U	ug/L	1	0.30	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
o-Xylene [95-47-6] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
sec-Butylbenzene [135-98-8] ^	0.24	U	ug/L	1	0.24	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
tert-Butylbenzene [98-06-6] ^	0.28	U	ug/L	1	0.28	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	0I28027	EPA 8260B	09/29/10 07:53	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*97 %*	*51-122*	*0I28027*	*EPA 8260B*	*09/29/10 07:53*	*JKG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*95 %*	*68-117*	*0I28027*	*EPA 8260B*	*09/29/10 07:53*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*97 %*	*69-110*	*0I28027*	*EPA 8260B*	*09/29/10 07:53*	*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: GP-4 | **Lab Sample ID:** C011558-04 | **Received:** 09/21/10 15:50

Matrix: Ground Water | **Sampled:** 09/20/10 11:45 | **Work Order:** C011558

Project: Mary Chappell Site | **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	0I28027	EPA 8260B	09/29/10 08:21	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.25	U	ug/L	1	0.25	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.94	U	ug/L	1	0.94	5.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
2-Chlorotoluene [95-49-8] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
4-Chlorotoluene [106-43-4] ^	0.25	U	ug/L	1	0.25	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
4-Isopropyltoluene [99-87-6] ^	0.26	U	ug/L	1	0.26	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
Acetone [67-64-1] ^	**71**		ug/L	1	1.5	5.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
Bromobenzene [108-86-1] ^	0.28	U	ug/L	1	0.28	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
Isopropylbenzene [98-82-8] ^	0.24	U	ug/L	1	0.24	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.48	U	ug/L	1	0.48	2.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	

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Description: GP-4
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C011558-04
Sampled: 09/20/10 11:45
Sampled By: Gerald Paul

Received: 09/21/10 15:50
Work Order: C011558

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	0I28027	EPA 8260B	09/29/10 08:21	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
n-Butyl Benzene [104-51-8] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
n-Propyl Benzene [103-65-1] ^	0.30	U	ug/L	1	0.30	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
o-Xylene [95-47-6] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
sec-Butylbenzene [135-98-8] ^	0.24	U	ug/L	1	0.24	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
tert-Butylbenzene [98-06-6] ^	0.28	U	ug/L	1	0.28	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	0I28027	EPA 8260B	09/29/10 08:21	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*99 %*	*51-122*	*0I28027*	*EPA 8260B*	*09/29/10 08:21*	*JKG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*93 %*	*68-117*	*0I28027*	*EPA 8260B*	*09/29/10 08:21*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*69-110*	*0I28027*	*EPA 8260B*	*09/29/10 08:21*	*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: GP-6 | **Lab Sample ID:** C011558-05 | **Received:** 09/21/10 15:50

Matrix: Ground Water | **Sampled:** 09/20/10 12:30 | **Work Order:** C011558

Project: Mary Chappell Site | **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	0I28027	EPA 8260B	09/29/10 08:50	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.25	U	ug/L	1	0.25	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.94	U	ug/L	1	0.94	5.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
2-Chlorotoluene [95-49-8] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
4-Chlorotoluene [106-43-4] ^	0.25	U	ug/L	1	0.25	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
4-Isopropyltoluene [99-87-6] ^	0.26	U	ug/L	1	0.26	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
Acetone [67-64-1] ^	**3.5**	J	ug/L	1	1.5	5.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
Bromobenzene [108-86-1] ^	0.28	U	ug/L	1	0.28	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
Isopropylbenzene [98-82-8] ^	0.24	U	ug/L	1	0.24	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.48	U	ug/L	1	0.48	2.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	0I28027	EPA 8260B	09/29/10 08:50	JKG	

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Description: GP-6
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C011558-05
Sampled: 09/20/10 12:30
Sampled By: Gerald Paul

Received: 09/21/10 15:50
Work Order: C011558

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	OI28027	EPA 8260B	09/29/10 08:50	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	OI28027	EPA 8260B	09/29/10 08:50	JKG	
n-Butyl Benzene [104-51-8] ^	0.20	U	ug/L	1	0.20	1.0	OI28027	EPA 8260B	09/29/10 08:50	JKG	
n-Propyl Benzene [103-65-1] ^	0.30	U	ug/L	1	0.30	1.0	OI28027	EPA 8260B	09/29/10 08:50	JKG	
o-Xylene [95-47-6] ^	0.27	U	ug/L	1	0.27	1.0	OI28027	EPA 8260B	09/29/10 08:50	JKG	
sec-Butylbenzene [135-98-8] ^	0.24	U	ug/L	1	0.24	1.0	OI28027	EPA 8260B	09/29/10 08:50	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	OI28027	EPA 8260B	09/29/10 08:50	JKG	
tert-Butylbenzene [98-06-6] ^	0.28	U	ug/L	1	0.28	1.0	OI28027	EPA 8260B	09/29/10 08:50	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	OI28027	EPA 8260B	09/29/10 08:50	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	OI28027	EPA 8260B	09/29/10 08:50	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	OI28027	EPA 8260B	09/29/10 08:50	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	OI28027	EPA 8260B	09/29/10 08:50	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	OI28027	EPA 8260B	09/29/10 08:50	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	OI28027	EPA 8260B	09/29/10 08:50	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	OI28027	EPA 8260B	09/29/10 08:50	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	OI28027	EPA 8260B	09/29/10 08:50	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*99 %*	*51-122*	*OI28027*	*EPA 8260B*	*09/29/10 08:50*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*68-117*	*OI28027*	*EPA 8260B*	*09/29/10 08:50*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*99 %*	*69-110*	*OI28027*	*EPA 8260B*	*09/29/10 08:50*	*JKG*	

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Description: GP-7
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C011558-06
Sampled: 09/20/10 14:15
Sampled By: Gerald Paul

Received: 09/21/10 15:50
Work Order: C011558

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	0I28027	EPA 8260B	09/29/10 09:18	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.25	U	ug/L	1	0.25	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.94	U	ug/L	1	0.94	5.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
2-Chlorotoluene [95-49-8] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
4-Chlorotoluene [106-43-4] ^	0.25	U	ug/L	1	0.25	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
4-Isopropyltoluene [99-87-6] ^	0.26	U	ug/L	1	0.26	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
Acetone [67-64-1] ^	**3.3**	J	ug/L	1	1.5	5.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
Bromobenzene [108-86-1] ^	0.28	U	ug/L	1	0.28	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
Isopropylbenzene [98-82-8] ^	0.24	U	ug/L	1	0.24	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.48	U	ug/L	1	0.48	2.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	

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Description: GP-7
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C011558-06
Sampled: 09/20/10 14:15
Sampled By: Gerald Paul

Received: 09/21/10 15:50
Work Order: C011558

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	0I28027	EPA 8260B	09/29/10 09:18	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
n-Butyl Benzene [104-51-8] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
n-Propyl Benzene [103-65-1] ^	0.30	U	ug/L	1	0.30	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
o-Xylene [95-47-6] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
sec-Butylbenzene [135-98-8] ^	0.24	U	ug/L	1	0.24	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
tert-Butylbenzene [98-06-6] ^	0.28	U	ug/L	1	0.28	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	0I28027	EPA 8260B	09/29/10 09:18	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*97 %*	*51-122*	*0I28027*	*EPA 8260B*	*09/29/10 09:18*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*68-117*	*0I28027*	*EPA 8260B*	*09/29/10 09:18*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*98 %*	*69-110*	*0I28027*	*EPA 8260B*	*09/29/10 09:18*	*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: Herman Russell - WSW-4
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C011558-07
Sampled: 09/21/10 14:30
Sampled By: Gerald Paul

Received: 09/21/10 15:50
Work Order: C011558

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 16:40	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 16:40	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 16:40	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 16:40	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 16:40	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.25	U	ug/L	1	0.25	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.94	U	ug/L	1	0.94	5.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
2-Chlorotoluene [95-49-8] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
4-Chlorotoluene [106-43-4] ^	0.25	U	ug/L	1	0.25	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
4-Isopropyltoluene [99-87-6] ^	0.26	U	ug/L	1	0.26	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
Bromobenzene [108-86-1] ^	0.28	U	ug/L	1	0.28	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
Isopropylbenzene [98-82-8] ^	0.24	U	ug/L	1	0.24	1.0	0I29013	EPA 8260B	09/29/10 16:40	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 16:40	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	

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Description: Herman Russell - WSW-4
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C011558-07
Sampled: 09/21/10 14:30
Sampled By: Gerald Paul

Received: 09/21/10 15:50
Work Order: C011558

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 16:40	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
n-Butyl Benzene [104-51-8] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
n-Propyl Benzene [103-65-1] ^	0.30	U	ug/L	1	0.30	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
o-Xylene [95-47-6] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
sec-Butylbenzene [135-98-8] ^	0.24	U	ug/L	1	0.24	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
tert-Butylbenzene [98-06-6] ^	0.28	U	ug/L	1	0.28	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	0I29013	EPA 8260B	09/29/10 16:40	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	0I29013	EPA 8260B	09/29/10 16:40	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 16:40*	*JKG*	
Dibromofluoromethane	*34*	*1*	*50.0*	*68 %*	*68-117*	*0I29013*	*EPA 8260B*	*09/29/10 16:40*	*JKG*	
Toluene-d8	*37*	*1*	*50.0*	*75 %*	*69-110*	*0I29013*	*EPA 8260B*	*09/29/10 16:40*	*JKG*	

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Description: Herman Russell - WSW-4
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C011558-07
Sampled: 09/21/10 14:30
Sampled By: Gerald Paul

Received: 09/21/10 15:50
Work Order: C011558

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,2,4-Trichlorobenzene [120-82-1] ^	1.2	U	ug/L	1	1.2	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
1,2-Dichlorobenzene [95-50-1] ^	1.1	U	ug/L	1	1.1	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
1,3-Dichlorobenzene [541-73-1] ^	1.1	U	ug/L	1	1.1	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
1,4-Dichlorobenzene [106-46-7] ^	1.0	U	ug/L	1	1.0	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
1-Methylnaphthalene [90-12-0] ^	1.7	U	ug/L	1	1.7	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Benzidine [92-87-5] ^	1.6	U	ug/L	1	1.6	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Benzoic acid [65-85-0] ^	1.0	U	ug/L	1	1.0	50	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	**1.8**	J	ug/L	1	1.7	5.0	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	

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Description: Herman Russell - WSW-4
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C011558-07
Sampled: 09/21/10 14:30
Sampled By: Gerald Paul

Received: 09/21/10 15:50
Work Order: C011558

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Naphthalene [91-20-3] ^	1.3	U	ug/L	1	1.3	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Pentachlorophenol [87-86-5] ^	1.8	U	ug/L	1	1.8	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	
Pyridine [110-86-1] ^	1.3	U	ug/L	1	1.3	10	0I24001	EPA 8270D	09/24/10 23:00	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*87*	*1*	*100*	*87 %*	*10-179*	*0I24001*	*EPA 8270D*	*09/24/10 23:00*	*DFM*	
2-Fluorobiphenyl	*38*	*1*	*50.0*	*76 %*	*10-149*	*0I24001*	*EPA 8270D*	*09/24/10 23:00*	*DFM*	
2-Fluorophenol	*56*	*1*	*100*	*56 %*	*10-110*	*0I24001*	*EPA 8270D*	*09/24/10 23:00*	*DFM*	
Nitrobenzene-d5	*40*	*1*	*50.0*	*79 %*	*10-149*	*0I24001*	*EPA 8270D*	*09/24/10 23:00*	*DFM*	
Phenol-d5	*46*	*1*	*100*	*46 %*	*10-88*	*0I24001*	*EPA 8270D*	*09/24/10 23:00*	*DFM*	
Terphenyl-d14	*52*	*1*	*50.0*	*103 %*	*10-188*	*0I24001*	*EPA 8270D*	*09/24/10 23:00*	*DFM*	

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Description: Herman Russell - WSW-4
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C011558-07
Sampled: 09/21/10 14:30
Sampled By: Gerald Paul

Received: 09/21/10 15:50
Work Order: C011558

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	OI27004	EPA 8081B	09/27/10 17:16	DFM	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	OI27004	EPA 8081B	09/27/10 17:16	DFM	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	OI27004	EPA 8081B	09/27/10 17:16	DFM	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	OI27004	EPA 8081B	09/27/10 17:16	DFM	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	OI27004	EPA 8081B	09/27/10 17:16	DFM	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	OI27004	EPA 8081B	09/27/10 17:16	DFM	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	OI27004	EPA 8081B	09/27/10 17:16	DFM	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	OI27004	EPA 8081B	09/27/10 17:16	DFM	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	OI27004	EPA 8081B	09/27/10 17:16	DFM	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	OI27004	EPA 8081B	09/27/10 17:16	DFM	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	OI27004	EPA 8081B	09/27/10 17:16	DFM	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	OI27004	EPA 8081B	09/27/10 17:16	DFM	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	OI27004	EPA 8081B	09/27/10 17:16	DFM	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	OI27004	EPA 8081B	09/27/10 17:16	DFM	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	OI27004	EPA 8081B	09/27/10 17:16	DFM	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	OI27004	EPA 8081B	09/27/10 17:16	DFM	
Endrin ketone [53494-70-5] ^	0.012	U	ug/L	1	0.012	0.050	OI27004	EPA 8081B	09/27/10 17:16	DFM	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	OI27004	EPA 8081B	09/27/10 17:16	DFM	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	OI27004	EPA 8081B	09/27/10 17:16	DFM	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	OI27004	EPA 8081B	09/27/10 17:16	DFM	
Isodrin [465-73-6] ^	0.013	U	ug/L	1	0.013	0.050	OI27004	EPA 8081B	09/27/10 17:16	DFM	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	OI27004	EPA 8081B	09/27/10 17:16	DFM	
Mirex [2385-85-5] ^	0.016	U	ug/L	1	0.016	0.050	OI27004	EPA 8081B	09/27/10 17:16	DFM	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	OI27004	EPA 8081B	09/27/10 17:16	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.94*	*1*	*1.00*	*94 %*	*44-134*	*OI27004*	*EPA 8081B*	*09/27/10 17:16*	*DFM*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*108 %*	*37-149*	*OI27004*	*EPA 8081B*	*09/27/10 17:16*	*DFM*	

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Description: Herman Russell - WSW-4
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C011558-07
Sampled: 09/21/10 14:30
Sampled By: Gerald Paul

Received: 09/21/10 15:50
Work Order: C011558

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0I24018	EPA 7470A	09/24/10 16:31	NLH	

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Description: Herman Russell - WSW-4
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C011558-07
Sampled: 09/21/10 14:30
Sampled By: Gerald Paul

Received: 09/21/10 15:50
Work Order: C011558

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	0I23013	EPA 6020A	09/27/10 10:47	JDH	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	0I23011	EPA 6010C	09/24/10 12:00	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	0I23011	EPA 6010C	09/24/10 12:00	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	0I23011	EPA 6010C	09/24/10 12:00	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	0I23011	EPA 6010C	09/24/10 12:00	JDH	
Copper [7440-50-8] ^	**15.0**		ug/L	1	1.60	10.0	0I23011	EPA 6010C	09/24/10 12:00	JDH	
Manganese [7439-96-5] ^	1.10	U	ug/L	1	1.10	10.0	0I23011	EPA 6010C	09/24/10 12:00	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	0I23011	EPA 6010C	09/24/10 12:00	JDH	
Selenium [7782-49-2] ^	**3.91**	J	ug/L	1	2.70	10.0	0I23011	EPA 6010C	09/24/10 12:00	JDH	
Silver [7440-22-4] ^	**1.91**	J	ug/L	1	1.90	10.0	0I23011	EPA 6010C	09/24/10 12:00	JDH	
Thallium [7440-28-0] ^	**0.918**	JB	ug/L	1	0.110	1.00	0I23013	EPA 6020A	09/27/10 10:47	JDH	J-01
Zinc [7440-66-6] ^	**8.40**	J	ug/L	1	3.80	10.0	0I23011	EPA 6010C	09/24/10 12:00	JDH	

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Description: Herman Russell - WSW-4
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C011558-07
Sampled: 09/21/10 14:30
Sampled By: Gerald Paul

Received: 09/21/10 15:50
Work Order: C011558

Metals (acid extractable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	0I23011	EPA 6010C	09/24/10 12:00	JDH	

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
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C011558-08
Sampled: 09/20/10 00:00
Sampled By: Gerald Paul

Received: 09/21/10 15:50
Work Order: C011558

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 17:09	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 17:09	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 17:09	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 17:09	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 17:09	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.25	U	ug/L	1	0.25	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.94	U	ug/L	1	0.94	5.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
2-Chlorotoluene [95-49-8] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
4-Chlorotoluene [106-43-4] ^	0.25	U	ug/L	1	0.25	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
4-Isopropyltoluene [99-87-6] ^	0.26	U	ug/L	1	0.26	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
Acetone [67-64-1] ^	**5.7**		ug/L	1	1.5	5.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
Bromobenzene [108-86-1] ^	0.28	U	ug/L	1	0.28	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
Chloroform [67-66-3] ^	**0.86**	J	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	
Isopropylbenzene [98-82-8] ^	0.24	U	ug/L	1	0.24	1.0	0I29013	EPA 8260B	09/29/10 17:09	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 17:09	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	0I29013	EPA 8260B	09/29/10 17:09	JKG	

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Description: Duplicate
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C011558-08
Sampled: 09/20/10 00:00
Sampled By: Gerald Paul

Received: 09/21/10 15:50
Work Order: C011558

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	OI29013	EPA 8260B	09/29/10 17:09	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	OI29013	EPA 8260B	09/29/10 17:09	JKG	
n-Butyl Benzene [104-51-8] ^	0.20	U	ug/L	1	0.20	1.0	OI29013	EPA 8260B	09/29/10 17:09	JKG	
n-Propyl Benzene [103-65-1] ^	0.30	U	ug/L	1	0.30	1.0	OI29013	EPA 8260B	09/29/10 17:09	JKG	
o-Xylene [95-47-6] ^	0.27	U	ug/L	1	0.27	1.0	OI29013	EPA 8260B	09/29/10 17:09	JKG	
sec-Butylbenzene [135-98-8] ^	0.24	U	ug/L	1	0.24	1.0	OI29013	EPA 8260B	09/29/10 17:09	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	OI29013	EPA 8260B	09/29/10 17:09	JKG	
tert-Butylbenzene [98-06-6] ^	0.28	U	ug/L	1	0.28	1.0	OI29013	EPA 8260B	09/29/10 17:09	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	OI29013	EPA 8260B	09/29/10 17:09	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	OI29013	EPA 8260B	09/29/10 17:09	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	OI29013	EPA 8260B	09/29/10 17:09	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	OI29013	EPA 8260B	09/29/10 17:09	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	OI29013	EPA 8260B	09/29/10 17:09	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	OI29013	EPA 8260B	09/29/10 17:09	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	OI29013	EPA 8260B	09/29/10 17:09	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	OI29013	EPA 8260B	09/29/10 17:09	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*51-122*	*OI29013*	*EPA 8260B*	*09/29/10 17:09*	*JKG*	
Dibromofluoromethane	*35*	*1*	*50.0*	*69 %*	*68-117*	*OI29013*	*EPA 8260B*	*09/29/10 17:09*	*JKG*	
Toluene-d8	*37*	*1*	*50.0*	*75 %*	*69-110*	*OI29013*	*EPA 8260B*	*09/29/10 17:09*	*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: Equipment Blank
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C011558-09
Sampled: 09/20/10 18:00
Sampled By: Gerald Paul

Received: 09/21/10 15:50
Work Order: C011558

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	0I28027	EPA 8260B	09/29/10 09:46	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.25	U	ug/L	1	0.25	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.94	U	ug/L	1	0.94	5.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
2-Chlorotoluene [95-49-8] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
4-Chlorotoluene [106-43-4] ^	0.25	U	ug/L	1	0.25	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
4-Isopropyltoluene [99-87-6] ^	0.26	U	ug/L	1	0.26	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
Bromobenzene [108-86-1] ^	0.28	U	ug/L	1	0.28	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
Chloromethane [74-87-3] ^	**0.56**	J	ug/L	1	0.34	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
Isopropylbenzene [98-82-8] ^	0.24	U	ug/L	1	0.24	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.48	U	ug/L	1	0.48	2.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	

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Description: Equipment Blank
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C011558-09
Sampled: 09/20/10 18:00
Sampled By: Gerald Paul

Received: 09/21/10 15:50
Work Order: C011558

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	0I28027	EPA 8260B	09/29/10 09:46	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
n-Butyl Benzene [104-51-8] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
n-Propyl Benzene [103-65-1] ^	0.30	U	ug/L	1	0.30	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
o-Xylene [95-47-6] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
sec-Butylbenzene [135-98-8] ^	0.24	U	ug/L	1	0.24	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
tert-Butylbenzene [98-06-6] ^	0.28	U	ug/L	1	0.28	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	0I28027	EPA 8260B	09/29/10 09:46	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*97 %*	*51-122*	*0I28027*	*EPA 8260B*	*09/29/10 09:46*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*95 %*	*68-117*	*0I28027*	*EPA 8260B*	*09/29/10 09:46*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*69-110*	*0I28027*	*EPA 8260B*	*09/29/10 09:46*	*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: Mary Chappell Site

Lab Sample ID: C011558-10
Sampled: 09/21/10 00:00
Sampled By: ENCO

Received: 09/21/10 15:50
Work Order: C011558

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	0I28027	EPA 8260B	09/29/10 10:15	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.25	U	ug/L	1	0.25	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.94	U	ug/L	1	0.94	5.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
2-Chlorotoluene [95-49-8] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
4-Chlorotoluene [106-43-4] ^	0.25	U	ug/L	1	0.25	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
4-Isopropyltoluene [99-87-6] ^	0.26	U	ug/L	1	0.26	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
Bromobenzene [108-86-1] ^	0.28	U	ug/L	1	0.28	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
Isopropylbenzene [98-82-8] ^	0.24	U	ug/L	1	0.24	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.48	U	ug/L	1	0.48	2.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	0I28027	EPA 8260B	09/29/10 10:15	JKG	

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Description: Trip Blank
Matrix: Water
Project: Mary Chappell Site

Lab Sample ID: C011558-10
Sampled: 09/21/10 00:00
Sampled By: ENCO

Received: 09/21/10 15:50
Work Order: C011558

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	OI28027	EPA 8260B	09/29/10 10:15	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	OI28027	EPA 8260B	09/29/10 10:15	JKG	
n-Butyl Benzene [104-51-8] ^	0.20	U	ug/L	1	0.20	1.0	OI28027	EPA 8260B	09/29/10 10:15	JKG	
n-Propyl Benzene [103-65-1] ^	0.30	U	ug/L	1	0.30	1.0	OI28027	EPA 8260B	09/29/10 10:15	JKG	
o-Xylene [95-47-6] ^	0.27	U	ug/L	1	0.27	1.0	OI28027	EPA 8260B	09/29/10 10:15	JKG	
sec-Butylbenzene [135-98-8] ^	0.24	U	ug/L	1	0.24	1.0	OI28027	EPA 8260B	09/29/10 10:15	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	OI28027	EPA 8260B	09/29/10 10:15	JKG	
tert-Butylbenzene [98-06-6] ^	0.28	U	ug/L	1	0.28	1.0	OI28027	EPA 8260B	09/29/10 10:15	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	OI28027	EPA 8260B	09/29/10 10:15	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	OI28027	EPA 8260B	09/29/10 10:15	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	OI28027	EPA 8260B	09/29/10 10:15	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	OI28027	EPA 8260B	09/29/10 10:15	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	OI28027	EPA 8260B	09/29/10 10:15	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	OI28027	EPA 8260B	09/29/10 10:15	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	OI28027	EPA 8260B	09/29/10 10:15	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	OI28027	EPA 8260B	09/29/10 10:15	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*98 %*	*51-122*	*OI28027*	*EPA 8260B*	*09/29/10 10:15*	*JKG*	
Dibromofluoromethane	*49*	*1*	*50.0*	*98 %*	*68-117*	*OI28027*	*EPA 8260B*	*09/29/10 10:15*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*101 %*	*69-110*	*OI28027*	*EPA 8260B*	*09/29/10 10:15*	*JKG*	

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I28027 - EPA 5030B_MS

Blank (0I28027-BLK1) Prepared: 09/28/2010 13:40 Analyzed: 09/29/2010 00:48

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 0I28027 - EPA 5030B_MS

Blank (0I28027-BLK1) Continued Prepared: 09/28/2010 13:40 Analyzed: 09/29/2010 00:48

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	*47*			*ug/L*	*50.0*		*94*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*68-117*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*97*	*69-110*			

LCS (0I28027-BS1) Prepared: 09/28/2010 13:40 Analyzed: 09/29/2010 01:16

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		89	75-133			
Benzene	19		1.0	ug/L	20.0		93	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		99	83-117			
Toluene	19		1.0	ug/L	20.0		95	71-118			
Trichloroethene	19		1.0	ug/L	20.0		95	75-115			
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*96*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*93*	*68-117*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*98*	*69-110*			

Matrix Spike (0I28027-MS1) Prepared: 09/28/2010 13:40 Analyzed: 09/29/2010 01:44

Source: C011560-06

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	0.24 U	88	75-133			
Benzene	19		1.0	ug/L	20.0	0.20 U	93	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	94	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	95	75-115			
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*96*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*91*	*68-117*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*100*	*69-110*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I28027 - EPA 5030B_MS

Matrix Spike Dup (0I28027-MSD1) Prepared: 09/28/2010 13:40 Analyzed: 09/29/2010 02:13

Source: C011560-06

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	0.24 U	90	75-133	2	20	
Benzene	18		1.0	ug/L	20.0	0.20 U	92	81-134	0.9	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.27 U	96	83-117	2	16	
Toluene	19		1.0	ug/L	20.0	0.27 U	93	71-118	1	17	
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	94	75-115	2	18	
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*96*	*51-122*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*93*	*68-117*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*99*	*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*			

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 0I24001 - EPA 3510C_MS

Blank (0I24001-BLK1) Prepared: 09/24/2010 06:57 Analyzed: 09/24/2010 20:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	1.2	U	10	ug/L							
1,2-Dichlorobenzene	1.1	U	10	ug/L							
1,3-Dichlorobenzene	1.1	U	10	ug/L							
1,4-Dichlorobenzene	1.0	U	10	ug/L							
1-Methylnaphthalene	1.7	U	10	ug/L							
2,4,5-Trichlorophenol	1.0	U	10	ug/L							
2,4,6-Trichlorophenol	1.1	U	10	ug/L							
2,4-Dichlorophenol	1.4	U	10	ug/L							
2,4-Dimethylphenol	1.3	U	10	ug/L							
2,4-Dinitrophenol	2.6	U	10	ug/L							
2,4-Dinitrotoluene	2.4	U	10	ug/L							
2,6-Dinitrotoluene	1.5	U	10	ug/L							
2-Chloronaphthalene	1.0	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch OI24001 - EPA 3510C_MS

Blank (OI24001-BLK1) Continued Prepared: 09/24/2010 06:57 Analyzed: 09/24/2010 20:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	1.2	U	10	ug/L							
2-Methyl-4,6-dinitrophenol	2.9	U	10	ug/L							
2-Methylnaphthalene	1.5	U	10	ug/L							
2-Methylphenol	1.4	U	10	ug/L							
2-Nitroaniline	1.5	U	10	ug/L							
2-Nitrophenol	1.1	U	10	ug/L							
3 & 4-Methylphenol	1.6	U	10	ug/L							
3,3'-Dichlorobenzidine	3.3	U	10	ug/L							
3-Nitroaniline	2.1	U	10	ug/L							
4-Bromophenyl-phenylether	1.0	U	10	ug/L							
4-Chloro-3-methylphenol	1.5	U	10	ug/L							
4-Chloroaniline	1.2	U	10	ug/L							
4-Chlorophenyl-phenylether	1.6	U	10	ug/L							
4-Nitroaniline	3.2	U	10	ug/L							
4-Nitrophenol	2.0	U	10	ug/L							
Acenaphthene	1.4	U	10	ug/L							
Acenaphthylene	1.2	U	10	ug/L							
Anthracene	1.6	U	10	ug/L							
Benzidine	1.6	U	10	ug/L							
Benzo(a)anthracene	1.3	U	10	ug/L							
Benzo(a)pyrene	1.3	U	10	ug/L							
Benzo(b)fluoranthene	1.0	U	10	ug/L							
Benzo(g,h,i)perylene	2.4	U	10	ug/L							
Benzo(k)fluoranthene	1.3	U	10	ug/L							
Benzoic acid	1.0	U	50	ug/L							
Benzyl alcohol	1.4	U	10	ug/L							
Bis(2-chloroethoxy)methane	1.4	U	10	ug/L							
Bis(2-chloroethyl)ether	1.2	U	10	ug/L							
Bis(2-chloroisopropyl)ether	1.3	U	10	ug/L							
Bis(2-ethylhexyl)phthalate	1.7	U	5.0	ug/L							
Butylbenzylphthalate	2.0	U	10	ug/L							
Chrysene	2.0	U	10	ug/L							
Dibenzo(a,h)anthracene	2.3	U	10	ug/L							
Dibenzofuran	1.4	U	10	ug/L							
Diethylphthalate	2.1	U	10	ug/L							
Dimethylphthalate	1.4	U	10	ug/L							
Di-n-butylphthalate	**1.5**	**J**	10	ug/L							
Di-n-octylphthalate	3.1	U	10	ug/L							
Fluoranthene	2.1	U	10	ug/L							
Fluorene	1.7	U	10	ug/L							
Hexachlorobenzene	1.0	U	10	ug/L							
Hexachlorobutadiene	1.2	U	10	ug/L							
Hexachlorocyclopentadiene	1.3	U	10	ug/L							
Hexachloroethane	1.1	U	10	ug/L							
Indeno(1,2,3-cd)pyrene	2.2	U	10	ug/L							
Isophorone	1.3	U	10	ug/L							
Naphthalene	1.3	U	10	ug/L							
Nitrobenzene	1.2	U	10	ug/L							
N-Nitrosodimethylamine	1.3	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch OI24001 - EPA 3510C_MS

Blank (OI24001-BLK1) Continued Prepared: 09/24/2010 06:57 Analyzed: 09/24/2010 20:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
N-Nitroso-di-n-propylamine	1.5	U	10	ug/L							
N-nitrosodiphenylamine/Diphenylamine	2.1	U	10	ug/L							
Pentachlorophenol	1.8	U	10	ug/L							
Phenanthrene	1.4	U	10	ug/L							
Phenol	1.4	U	10	ug/L							
Pyrene	2.1	U	10	ug/L							
Pyridine	1.3	U	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	*86*			*ug/L*	*100*		*86*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*38*			*ug/L*	*50.0*		*76*	*10-149*			
Surrogate: 2-Fluorophenol	*62*			*ug/L*	*100*		*62*	*10-110*			
Surrogate: Nitrobenzene-d5	*41*			*ug/L*	*50.0*		*83*	*10-149*			
Surrogate: Phenol-d5	*54*			*ug/L*	*100*		*54*	*10-88*			
Surrogate: Terphenyl-d14	*54*			*ug/L*	*50.0*		*109*	*10-188*			

LCS (OI24001-BS1) Prepared: 09/24/2010 06:57 Analyzed: 09/24/2010 21:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	33		10	ug/L	50.0		67	27-90			
1,4-Dichlorobenzene	32		10	ug/L	50.0		64	23-84			
2,4-Dinitrotoluene	48		10	ug/L	50.0		96	67-132			
2-Chlorophenol	40		10	ug/L	50.0		80	40-109			
4-Chloro-3-methylphenol	43		10	ug/L	50.0		87	58-121			
4-Nitrophenol	41		10	ug/L	50.0		83	33-105			
Acenaphthene	36		10	ug/L	50.0		72	39-125			
N-Nitroso-di-n-propylamine	39		10	ug/L	50.0		79	48-126			
Pentachlorophenol	35		10	ug/L	50.0		70	51-135			
Phenol	30		10	ug/L	50.0		60	19-78			
Pyrene	44		10	ug/L	50.0		87	44-137			
Surrogate: 2,4,6-Tribromophenol	*92*			*ug/L*	*100*		*92*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*39*			*ug/L*	*50.0*		*78*	*10-149*			
Surrogate: 2-Fluorophenol	*64*			*ug/L*	*100*		*64*	*10-110*			
Surrogate: Nitrobenzene-d5	*42*			*ug/L*	*50.0*		*84*	*10-149*			
Surrogate: Phenol-d5	*53*			*ug/L*	*100*		*53*	*10-88*			
Surrogate: Terphenyl-d14	*44*			*ug/L*	*50.0*		*89*	*10-188*			

Matrix Spike (OI24001-MS1) Prepared: 09/24/2010 06:57 Analyzed: 09/24/2010 22:01

Source: C011560-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	33		10	ug/L	50.0	1.2 U	66	27-90			
1,4-Dichlorobenzene	32		10	ug/L	50.0	1.0 U	64	23-84			
2,4-Dinitrotoluene	48		10	ug/L	50.0	2.4 U	95	67-132			
2-Chlorophenol	37		10	ug/L	50.0	1.2 U	75	40-109			
4-Chloro-3-methylphenol	41		10	ug/L	50.0	1.5 U	82	58-121			
4-Nitrophenol	41		10	ug/L	50.0	2.0 U	82	33-105			
Acenaphthene	35		10	ug/L	50.0	1.4 U	69	39-125			
N-Nitroso-di-n-propylamine	39		10	ug/L	50.0	1.5 U	77	48-126			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 0I24001 - EPA 3510C_MS

Matrix Spike (0I24001-MS1) Continued Prepared: 09/24/2010 06:57 Analyzed: 09/24/2010 22:01

Source: C011560-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Pentachlorophenol	37		10	ug/L	50.0	1.8 U	74	51-135			
Phenol	28		10	ug/L	50.0	1.4 U	57	19-78			
Pyrene	39		10	ug/L	50.0	2.1 U	77	44-137			
Surrogate: 2,4,6-Tribromophenol	*90*			*ug/L*	*100*		*90*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*38*			*ug/L*	*50.0*		*76*	*10-149*			
Surrogate: 2-Fluorophenol	*59*			*ug/L*	*100*		*59*	*10-110*			
Surrogate: Nitrobenzene-d5	*40*			*ug/L*	*50.0*		*80*	*10-149*			
Surrogate: Phenol-d5	*49*			*ug/L*	*100*		*49*	*10-88*			
Surrogate: Terphenyl-d14	*40*			*ug/L*	*50.0*		*80*	*10-188*			

Matrix Spike Dup (0I24001-MSD1) Prepared: 09/24/2010 06:57 Analyzed: 09/24/2010 22:31

Source: C011560-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	32		10	ug/L	50.0	1.2 U	64	27-90	3	43	
1,4-Dichlorobenzene	31		10	ug/L	50.0	1.0 U	63	23-84	2	39	
2,4-Dinitrotoluene	47		10	ug/L	50.0	2.4 U	93	67-132	2	17	
2-Chlorophenol	36		10	ug/L	50.0	1.2 U	73	40-109	3	22	
4-Chloro-3-methylphenol	42		10	ug/L	50.0	1.5 U	83	58-121	1	22	
4-Nitrophenol	43		10	ug/L	50.0	2.0 U	85	33-105	4	27	
Acenaphthene	35		10	ug/L	50.0	1.4 U	71	39-125	2	25	
N-Nitroso-di-n-propylamine	37		10	ug/L	50.0	1.5 U	74	48-126	4	23	
Pentachlorophenol	37		10	ug/L	50.0	1.8 U	74	51-135	0.5	11	
Phenol	27		10	ug/L	50.0	1.4 U	54	19-78	5	18	
Pyrene	41		10	ug/L	50.0	2.1 U	83	44-137	7	24	
Surrogate: 2,4,6-Tribromophenol	*90*			*ug/L*	*100*		*90*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*38*			*ug/L*	*50.0*		*77*	*10-149*			
Surrogate: 2-Fluorophenol	*58*			*ug/L*	*100*		*58*	*10-110*			
Surrogate: Nitrobenzene-d5	*39*			*ug/L*	*50.0*		*79*	*10-149*			
Surrogate: Phenol-d5	*48*			*ug/L*	*100*		*48*	*10-88*			
Surrogate: Terphenyl-d14	*42*			*ug/L*	*50.0*		*84*	*10-188*			

Organochlorine Pesticides by GC - Quality Control

Batch 0I27004 - EPA 3510C

Blank (0I27004-BLK1) Prepared: 09/27/2010 07:10 Analyzed: 09/27/2010 16:09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.013	U	0.050	ug/L							
4,4'-DDE	0.012	U	0.050	ug/L							
4,4'-DDT	0.015	U	0.050	ug/L							
Aldrin	0.012	U	0.050	ug/L							
alpha-BHC	0.015	U	0.050	ug/L							
beta-BHC	0.012	U	0.050	ug/L							
Chlordane (tech)	0.20	U	0.50	ug/L							
Chlordane-alpha	0.014	U	0.050	ug/L							

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 0I27004 - EPA 3510C

Blank (0I27004-BLK1) Continued Prepared: 09/27/2010 07:10 Analyzed: 09/27/2010 16:09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlordane-gamma	0.012	U	0.050	ug/L							
delta-BHC	0.014	U	0.050	ug/L							
Dieldrin	0.0089	U	0.050	ug/L							
Endosulfan I	0.016	U	0.050	ug/L							
Endosulfan II	0.012	U	0.050	ug/L							
Endosulfan sulfate	0.012	U	0.050	ug/L							
Endrin	0.013	U	0.050	ug/L							
Endrin aldehyde	0.012	U	0.050	ug/L							
Endrin ketone	0.012	U	0.050	ug/L							
gamma-BHC	0.016	U	0.050	ug/L							
Heptachlor	0.012	U	0.050	ug/L							
Heptachlor epoxide	0.0089	U	0.050	ug/L							
Isodrin	0.013	U	0.050	ug/L							
Methoxychlor	0.016	U	0.050	ug/L							
Mirex	0.016	U	0.050	ug/L							
Toxaphene	0.22	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*1.1*			*ug/L*	*1.00*		*105*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.1*			*ug/L*	*1.00*		*115*	*37-149*			

LCS (0I27004-BS1) Prepared: 09/27/2010 07:10 Analyzed: 09/27/2010 16:22

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.92		0.050	ug/L	1.00		92	37-139			
Dieldrin	0.92		0.050	ug/L	1.00		92	46-132			
Endrin	0.94		0.050	ug/L	1.00		94	43-133			
Surrogate: 2,4,5,6-TCMX	*0.83*			*ug/L*	*1.00*		*83*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.96*			*ug/L*	*1.00*		*96*	*37-149*			

Matrix Spike (0I27004-MS1) Prepared: 09/27/2010 07:10 Analyzed: 09/27/2010 16:49

Source: C011622-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.1		0.050	ug/L	1.00	0.015 U	111	37-139			
Dieldrin	1.1		0.050	ug/L	1.00	0.0089 U	106	46-132			
Endrin	1.1		0.050	ug/L	1.00	0.013 U	106	43-133			
Surrogate: 2,4,5,6-TCMX	*0.94*			*ug/L*	*1.00*		*94*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.1*			*ug/L*	*1.00*		*108*	*37-149*			

Matrix Spike Dup (0I27004-MSD1) Prepared: 09/27/2010 07:10 Analyzed: 09/27/2010 17:02

Source: C011622-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.1		0.050	ug/L	1.00	0.015 U	112	37-139	0.5	26	
Dieldrin	1.1		0.050	ug/L	1.00	0.0089 U	106	46-132	0	27	
Endrin	1.1		0.050	ug/L	1.00	0.013 U	106	43-133	0.2	26	
Surrogate: 2,4,5,6-TCMX	*0.91*			*ug/L*	*1.00*		*91*	*44-134*			

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 0I27004 - EPA 3510C

Matrix Spike Dup (0I27004-MSD1) Continued Prepared: 09/27/2010 07:10 Analyzed: 09/27/2010 17:02

Source: C011622-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Decachlorobiphenyl	*1.1*			*ug/L*	*1.00*		*109*	*37-149*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 0I24018 - EPA 245.1

Blank (0I24018-BLK1) Prepared: 09/24/2010 10:23 Analyzed: 09/24/2010 16:02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (0I24018-BS1) Prepared: 09/24/2010 10:23 Analyzed: 09/24/2010 16:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.41		0.200	ug/L	5.00		108	85-115			

Matrix Spike (0I24018-MS1) Prepared: 09/24/2010 10:23 Analyzed: 09/24/2010 16:11

Source: C009406-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.12		0.200	ug/L	5.00	0.170 U	102	85-115			

Matrix Spike Dup (0I24018-MSD1) Prepared: 09/24/2010 10:23 Analyzed: 09/24/2010 16:22

Source: C009406-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.87		0.200	ug/L	5.00	0.170 U	97	85-115	5	15	

Post Spike (0I24018-PS1) Prepared: 09/24/2010 10:23 Analyzed: 09/24/2010 16:25

Source: C009406-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.60		0.200	ug/L	5.00	-0.430	101	75-125			

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 0I23011 - SM18 3030C

Blank (0I23011-BLK1) Prepared: 09/23/2010 10:00 Analyzed: 09/24/2010 11:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.00	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Manganese	1.10	U	10.0	ug/L							

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 0I23011 - SM18 3030C

Blank (0I23011-BLK1) Continued Prepared: 09/23/2010 10:00 Analyzed: 09/24/2010 11:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nickel	1.80	U	10.0	ug/L							
Selenium	2.70	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (0I23011-BS1) Prepared: 09/23/2010 10:00 Analyzed: 09/24/2010 13:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	553		10.0	ug/L	500		111	80-120			
Beryllium	277		1.00	ug/L	250		111	80-120			
Cadmium	272		1.00	ug/L	250		109	80-120			
Chromium	547		10.0	ug/L	500		109	80-120			
Copper	278		10.0	ug/L	250		111	80-120			
Manganese	274		10.0	ug/L	250		110	80-120			
Nickel	544		10.0	ug/L	500		109	80-120			
Selenium	576		10.0	ug/L	500		115	80-120			
Silver	280		10.0	ug/L	250		112	80-120			
Zinc	555		10.0	ug/L	500		111	80-120			

Matrix Spike (0I23011-MS1) Prepared: 09/23/2010 10:00 Analyzed: 09/24/2010 11:14

Source: C010911-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	577		10.0	ug/L	500	2.80 U	115	75-125			
Beryllium	299		1.00	ug/L	250	0.177	119	75-125			
Cadmium	286		1.00	ug/L	250	0.360 U	115	75-125			
Chromium	578		10.0	ug/L	500	3.04	115	75-125			
Copper	294		10.0	ug/L	250	4.29	116	75-125			
Manganese	335		10.0	ug/L	250	48.4	115	75-125			
Nickel	579		10.0	ug/L	500	1.80 U	116	75-125			
Selenium	580		10.0	ug/L	500	3.49	115	75-125			
Silver	290		10.0	ug/L	250	1.90 U	116	75-125			
Zinc	618		10.0	ug/L	500	32.4	117	75-125			

Matrix Spike Dup (0I23011-MSD1) Prepared: 09/23/2010 10:00 Analyzed: 09/24/2010 11:16

Source: C010911-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	588		10.0	ug/L	500	2.80 U	118	75-125	2	20	
Beryllium	296		1.00	ug/L	250	0.177	119	75-125	0.7	20	
Cadmium	291		1.00	ug/L	250	0.360 U	116	75-125	2	20	
Chromium	592		10.0	ug/L	500	3.04	118	75-125	2	20	
Copper	303		10.0	ug/L	250	4.29	120	75-125	3	20	
Manganese	344		10.0	ug/L	250	48.4	118	75-125	3	20	
Nickel	584		10.0	ug/L	500	1.80 U	117	75-125	0.8	20	
Selenium	598		10.0	ug/L	500	3.49	119	75-125	3	20	
Silver	301		10.0	ug/L	250	1.90 U	121	75-125	4	20	

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 0I23011 - SM18 3030C

Matrix Spike Dup (0I23011-MSD1) Continued Prepared: 09/23/2010 10:00 Analyzed: 09/24/2010 11:16

Source: C010911-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Zinc	623		10.0	ug/L	500	32.4	118	75-125	0.8	20	

Post Spike (0I23011-PS1) Prepared: 09/23/2010 10:00 Analyzed: 09/24/2010 11:19

Source: C010911-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.18		0.0100	mg/L	1.00	0.00122	118	80-120			
Beryllium	0.601		0.00100	mg/L	0.500	0.000177	120	80-120			
Cadmium	0.586		0.00100	mg/L	0.500	7.95E-5	117	80-120			
Chromium	1.18		0.0100	mg/L	1.00	0.00304	118	80-120			
Copper	0.606		0.0100	mg/L	0.500	0.00429	120	80-120			
Manganese	0.632		0.0100	mg/L	0.500	0.0484	117	80-120			
Nickel	1.17		0.0100	mg/L	1.00	0.000608	117	80-120			
Selenium	1.22		0.0100	mg/L	1.00	0.00349	122	80-120			QM-08
Silver	0.535		0.0100	mg/L	0.500	0.00145	107	80-120			
Zinc	1.22		0.0100	mg/L	1.00	0.0324	119	80-120			

Batch 0I23013 - SM18 3030C

Blank (0I23013-BLK1) Prepared: 09/23/2010 10:02 Analyzed: 09/27/2010 10:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Thallium	**0.182**	**J**	1.00	ug/L							

LCS (0I23013-BS1) Prepared: 09/23/2010 10:02 Analyzed: 09/27/2010 10:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.2		2.00	ug/L	25.0		105	80-120			
Thallium	28.1	B	1.00	ug/L	25.0		112	80-120			

Matrix Spike (0I23013-MS1) Prepared: 09/23/2010 10:02 Analyzed: 09/27/2010 10:50

Source: C011558-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.0		2.00	ug/L	25.0	0.220 U	108	75-125			
Thallium	29.2	B	1.00	ug/L	25.0	0.918	113	75-125			

Matrix Spike Dup (0I23013-MSD1) Prepared: 09/23/2010 10:02 Analyzed: 09/27/2010 10:54

Source: C011558-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.4		2.00	ug/L	25.0	0.220 U	110	75-125	1	20	
Thallium	29.4	B	1.00	ug/L	25.0	0.918	114	75-125	0.9	20	

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 0I23013 - SM18 3030C

Post Spike (0I23013-PS1) Prepared: 09/23/2010 10:02 Analyzed: 09/27/2010 10:57

Source: C011558-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.0		2.00	ug/L	25.0	0.0959	108	80-120			
Thallium	29.0	B	1.00	ug/L	25.0	0.918	112	80-120			

Metals (acid extractable) by EPA 6000/7000 Series Methods - Quality Control

Batch 0I23011 - SM18 3030C

Blank (0I23011-BLK1) Prepared: 09/23/2010 10:00 Analyzed: 09/24/2010 11:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Lead	1.90	U	10.0	ug/L							

LCS (0I23011-BS1) Prepared: 09/23/2010 10:00 Analyzed: 09/24/2010 13:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Lead	553		10.0	ug/L	500		111	80-120			

Matrix Spike (0I23011-MS1) Prepared: 09/23/2010 10:00 Analyzed: 09/24/2010 11:14

Source: C010911-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Lead	597		10.0	ug/L	500	7.48	118	75-125			

Matrix Spike Dup (0I23011-MSD1) Prepared: 09/23/2010 10:00 Analyzed: 09/24/2010 11:16

Source: C010911-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Lead	599		10.0	ug/L	500	7.48	118	75-125	0.4	20	

Post Spike (0I23011-PS1) Prepared: 09/23/2010 10:00 Analyzed: 09/24/2010 11:19

Source: C010911-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Lead	1.18		0.00935	mg/L	1.00	0.00748	117	80-120			

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.
J-01	Result is estimated due to positive results in the associated method blank.
QM-08	Post-digestion spike did not meet method requirements due to confirmed matrix effects (dilution test).

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3090 Fax (919) 467-3515

Page 1 of 2

Client Name: S&ME, Inc. (SM001)	Project Number: 1054-10-2003
Address: 3201 Spring Forest Road	Project Name/Desc: Mary Chappell Site
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: [signature]	Site Location / Time Zone: HAMLET, NC

Requested Analyses: 8081B,8270D; 8260B; Ag,As,Be,Cd,Cr,Cu,Mn,Ni,Pb (3010C),Sb,Sn,Tl,Zn; Hg

Requested Turnaround Times: Note: Rush requests subject to acceptance by the laboratory. X Standard ___ Expedited Due __/__/__

Lab Work Order: COI 558 ~~C010226~~

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8081B,8270D	8260B	Ag,As,Be,Cd,Cr,Cu,Mn,Ni,Pb (3010C),Sb,Sn,Tl,Zn	Hg	Sample Comments
	GP-1	9/20	1430	Grab	GW	3 6	X	X	X	X	VOCs only
	GP-2	[illegible]	[illegible]	Grab	GW	3 6	X	X	X	X	VOCs only
	GP-3	9/20	1115		GW	3 6	X	X	X	X	VOCs only
	GP-4	9/20	1145		GW	3 6	X	X	X	X	VOCs only
	~~GP-5~~				~~GW~~	~~6~~	~~X~~	~~X~~	~~X~~	~~X~~	No Sample
	GP-6	9/20	1230		GW	3 6	X	X	X	X	VOCs only
	GP-7	9/20	1415		GW	3 6	X	X	X	X	VOCs only
	~~Mary L. Chappell - WSW-1~~				~~GW~~	~~6~~	~~X~~	~~X~~	~~X~~	~~X~~	No SAMPLE
	~~Mark Chappell - WSW-2~~				~~GW~~	~~6~~	~~X~~	~~X~~	~~X~~	~~X~~	No SAMPLE
	~~Anne Harrison - WSW-3~~				~~GW~~	~~6~~	~~X~~	~~X~~	~~X~~	~~X~~	No SAMPLE
	Herman Russell - WSW-4	9/21/10	1430	GRAB	GW	6	X	X	X	X	
	~~William Brown - WSW-5~~				~~GW~~	~~6~~	~~X~~	~~X~~	~~X~~	~~X~~	No SAMPLE

← Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
BJG	9/1/10	[signature]	9/21/10 1550	[signature]	9/21/10 1550
Comments/Special Reporting Requirements: Samples GP-1 – GP-7 Dates & times taken from sample containers JT		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: Blue ~~C-734~~ ~~C-614~~ ~~C-539~~ 2.1°C

Good Fon Upon Receipt: ✓ Acceptable ___ Unacceptable

Matrix: GW Groundwater SD-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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102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page 2 of 2

Client Name: STME	Project Number: 1854-10-2003
Address: 3201 Spring Forest Road	Project Name/Desc: MARY Chappell Site
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 STME	Billing Contact: Accts Payable
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Analyses: 8260 B

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: CO 11558

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260 B	Sample Comments
	Duplicate	9/20/10	—	GRAB	GW	3	X	
	Equipment Blank	9/20/10	1800	GRAB	GW	3	X	
	TRIP	—	—	—	WA	2	X	

← 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		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 21°C		Condition Upon Receipt: ✓ Acceptable ___ Unacceptable	

Matrix: GW Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: Free 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
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Monday, September 27, 2010

S&ME, Inc. (SM001)

Attn: Ed Woloszyn

3201 Spring Forest Road

Raleigh, NC 27616

RE: Laboratory Results for
Project Number: 1054-10-2003, Project Name/Desc: Mary Chappell Site
ENCO Workorder: C010147

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

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 79.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: GP-1 (17-21)	Lab ID: C010147-01	Sampled: 09/09/10 13:45	Received: 09/10/10 17:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	03/08/11		09/20/10	10:28	9/21/2010 14:22
EPA 7471B	10/07/10		09/14/10	10:54	9/14/2010 16:11
EPA 8081B	09/23/10	10/24/10	09/14/10	09:57	9/16/2010 19:26
EPA 8270D	09/23/10	10/26/10	09/16/10	14:49	9/20/2010 20:26

Client ID: GP-1 (17-21)	Lab ID: C010147-01RE1	Sampled: 09/09/10 13:45	Received: 09/10/10 17:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	09/23/10		09/21/10	08:21	9/21/2010 13:07

Client ID: GP-2 (17-21)	Lab ID: C010147-02	Sampled: 09/09/10 16:45	Received: 09/10/10 17:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	03/08/11		09/20/10	10:28	9/21/2010 14:36
EPA 7471B	10/07/10		09/14/10	10:54	9/14/2010 16:26
EPA 8081B	09/23/10	10/24/10	09/14/10	09:57	9/16/2010 19:40
EPA 8260B	09/23/10		09/15/10	08:26	9/15/2010 21:59
EPA 8270D	09/23/10	10/26/10	09/16/10	14:49	9/20/2010 20:56

Client ID: GP-7 (25-29)	Lab ID: C010147-03	Sampled: 09/08/10 18:40	Received: 09/10/10 17:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	03/07/11		09/20/10	10:28	9/21/2010 14:39
EPA 7471B	10/06/10		09/14/10	10:54	9/14/2010 16:29
EPA 8081B	09/22/10	10/24/10	09/14/10	09:57	9/16/2010 19:53
EPA 8260B	09/22/10		09/15/10	08:26	9/15/2010 22:28
EPA 8270D	09/22/10	10/26/10	09/16/10	14:49	9/20/2010 17:28

Client ID: GP-3 (13-17)	Lab ID: C010147-04	Sampled: 09/09/10 12:30	Received: 09/10/10 17:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	03/08/11		09/20/10	10:28	9/21/2010 14:42
EPA 7471B	10/07/10		09/14/10	10:54	9/14/2010 16:32
EPA 8081B	09/23/10	10/24/10	09/14/10	09:57	9/16/2010 20:06
EPA 8260B	09/23/10		09/15/10	08:26	9/15/2010 22:56
EPA 8270D	09/23/10	10/26/10	09/16/10	14:49	9/20/2010 21:26

Client ID: Dup	Lab ID: C010147-05	Sampled: 09/08/10 00:00	Received: 09/10/10 17:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	03/07/11		09/20/10	10:28	9/21/2010 14:54
EPA 7471B	10/06/10		09/14/10	10:54	9/14/2010 16:41
EPA 8081B	09/22/10	10/24/10	09/14/10	09:57	9/16/2010 20:20
EPA 8260B	09/22/10		09/15/10	08:26	9/15/2010 23:25
EPA 8270D	09/22/10	10/26/10	09/16/10	14:49	9/20/2010 21:55

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Client ID: Equipment Blank	Lab ID: C010147-06	Sampled: 09/09/10 18:00	Received: 09/10/10 17:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	03/08/11		09/13/10	09:47	9/14/2010	12:45
EPA 6020A	03/08/11		09/14/10	16:20	9/22/2010	16:10
EPA 7470A	10/07/10		09/15/10	08:56	9/15/2010	17:08
EPA 8081B	09/16/10	10/24/10	09/14/10	07:47	9/22/2010	00:46
EPA 8260B	09/23/10		09/14/10	09:59	9/14/2010	15:57
EPA 8270D	09/16/10	10/24/10	09/14/10	12:33	9/23/2010	02:54

SAMPLE DETECTION SUMMARY

Client ID: GP-1 (17-21) **Lab ID: C010147-01**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	0.528	J	0.107	0.537	mg/kg dry	EPA 6010C	
Chromium - Total	0.925		0.107	0.537	mg/kg dry	EPA 6010C	
Copper - Total	0.454	J	0.204	0.537	mg/kg dry	EPA 6010C	
Di-n-butylphthalate	0.041	J	0.033	0.35	mg/kg dry	EPA 8270D	
Ethane, 1,1,2,2-tetrachloro-	0.28	JB			mg/kg dry	EPA 8270D	B
Lead - Total	0.473	J	0.129	0.537	mg/kg dry	EPA 6010C	
Manganese - Total	0.324	J	0.107	0.537	mg/kg dry	EPA 6010C	
Selenium - Total	0.207	JB	0.107	0.537	mg/kg dry	EPA 6010C	J-01
Thallium - Total	0.165	J	0.107	0.537	mg/kg dry	EPA 6010C	
Unknown	0.54	JB			mg/kg dry	EPA 8270D	B

Client ID: GP-1 (17-21) **Lab ID: C010147-01RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Carbon Dioxide	0.11	J			mg/kg dry	EPA 8260B	
Cyclopentasiloxane, decamet...	0.0049	JB			mg/kg dry	EPA 8260B	
Cyclotetrasiloxane, octamet...	0.010	JB			mg/kg dry	EPA 8260B	

Client ID: GP-2 (17-21) **Lab ID: C010147-02**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	10.7		0.110	0.552	mg/kg dry	EPA 6010C	
Beryllium - Total	0.0210	J	0.0133	0.0552	mg/kg dry	EPA 6010C	
Carbon Dioxide	0.086	J			mg/kg dry	EPA 8260B	
Chromium - Total	29.2		0.110	0.552	mg/kg dry	EPA 6010C	
Copper - Total	49.2		0.210	0.552	mg/kg dry	EPA 6010C	
Cyclopentasiloxane, decamet...	0.0060	JB			mg/kg dry	EPA 8260B	
Cyclotetrasiloxane, octamet...	0.015	J			mg/kg dry	EPA 8260B	
Ethane, 1,1,2,2-tetrachloro-	0.25	JB			mg/kg dry	EPA 8270D	B
Lead - Total	3.17		0.133	0.552	mg/kg dry	EPA 6010C	
Manganese - Total	2.61		0.110	0.552	mg/kg dry	EPA 6010C	
Selenium - Total	23.6	B	0.110	0.552	mg/kg dry	EPA 6010C	QB-01
Thallium - Total	0.637		0.110	0.552	mg/kg dry	EPA 6010C	
Unknown	0.51	JB			mg/kg dry	EPA 8270D	B
Zinc - Total	3.32		1.22	2.76	mg/kg dry	EPA 6010C	

Client ID: GP-7 (25-29) **Lab ID: C010147-03**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	1.56		0.113	0.566	mg/kg dry	EPA 6010C	
Carbon Dioxide	0.11	J			mg/kg dry	EPA 8260B	
Chromium - Total	1.93		0.113	0.566	mg/kg dry	EPA 6010C	
Copper - Total	4.58		0.215	0.566	mg/kg dry	EPA 6010C	
Cyclopentasiloxane, decamet...	0.0053	JB			mg/kg dry	EPA 8260B	
Cyclotetrasiloxane, octamet...	0.013	J			mg/kg dry	EPA 8260B	
Ethane, 1,1,2,2-tetrachloro-	0.28	JB			mg/kg dry	EPA 8270D	B
Lead - Total	0.917		0.136	0.566	mg/kg dry	EPA 6010C	
Manganese - Total	0.331	J	0.113	0.566	mg/kg dry	EPA 6010C	
Selenium - Total	0.904	B	0.113	0.566	mg/kg dry	EPA 6010C	J-01
Thallium - Total	0.235	J	0.113	0.566	mg/kg dry	EPA 6010C	
Unknown	0.56	JB			mg/kg dry	EPA 8270D	B

Client ID: GP-3 (13-17)			Lab ID: C010147-04				
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
7-Oxabicyclo[4.1.0]heptane	0.21	J			mg/kg dry	EPA 8270D	
Arsenic - Total	4.04		0.122	0.611	mg/kg dry	EPA 6010C	
Carbon Dioxide	0.13	J			mg/kg dry	EPA 8260B	
Chromium - Total	7.44		0.122	0.611	mg/kg dry	EPA 6010C	
Copper - Total	5.78		0.232	0.611	mg/kg dry	EPA 6010C	
Cyclopentasiloxane, decamet...	0.0055	JB			mg/kg dry	EPA 8260B	
Cyclotetrasiloxane, octamet...	0.012	J			mg/kg dry	EPA 8260B	
Ethane, 1,1,2,2-tetrachloro-	0.43	JB			mg/kg dry	EPA 8270D	B
Ethane, 1,1,2-trichloro-	0.18	J			mg/kg dry	EPA 8270D	
Lead - Total	1.50		0.147	0.611	mg/kg dry	EPA 6010C	
Manganese - Total	3.38		0.122	0.611	mg/kg dry	EPA 6010C	
Mercury - Total	0.0242		0.00586	0.0122	mg/kg dry	EPA 7471B	
Selenium - Total	1.12	B	0.122	0.611	mg/kg dry	EPA 6010C	QB-01
Thallium - Total	0.541	J	0.122	0.611	mg/kg dry	EPA 6010C	
Unknown	0.63	JB			mg/kg dry	EPA 8270D	B
Zinc - Total	2.11	J	1.34	3.05	mg/kg dry	EPA 6010C	

Client ID: Dup			Lab ID: C010147-05				
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
7-Oxabicyclo[4.1.0]heptane	0.20	J			mg/kg dry	EPA 8270D	
Arsenic - Total	0.418	J	0.107	0.536	mg/kg dry	EPA 6010C	
Carbon Dioxide	0.26	J			mg/kg dry	EPA 8260B	
Chromium - Total	0.939		0.107	0.536	mg/kg dry	EPA 6010C	
Copper - Total	0.598		0.204	0.536	mg/kg dry	EPA 6010C	
Cyclopentasiloxane, decamet...	0.0077	JB			mg/kg dry	EPA 8260B	
Cyclotetrasiloxane, octamet...	0.025	J			mg/kg dry	EPA 8260B	
Ethane, 1,1,2,2-tetrachloro-	0.41	JB			mg/kg dry	EPA 8270D	B
Ethane, 1,1,2-trichloro-	0.18	J			mg/kg dry	EPA 8270D	
Lead - Total	0.438	J	0.129	0.536	mg/kg dry	EPA 6010C	
Manganese - Total	0.312	J	0.107	0.536	mg/kg dry	EPA 6010C	
Selenium - Total	0.309	JB	0.107	0.536	mg/kg dry	EPA 6010C	J-01
Thallium - Total	0.132	J	0.107	0.536	mg/kg dry	EPA 6010C	
Unknown	0.55	JB			mg/kg dry	EPA 8270D	B
Zinc - Total	1.38	J	1.18	2.68	mg/kg dry	EPA 6010C	

Client ID: Equipment Blank			Lab ID: C010147-06				
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
Carbon Dioxide	110	J			ug/L	EPA 8260B	
Manganese - Total	4.07	JB	1.10	10.0	ug/L	EPA 6010C	J-01
Selenium - Total	4.64	J	2.70	10.0	ug/L	EPA 6010C	
Unknown (01)	9.7	JB			ug/L	EPA 8270D	B
Unknown (02)	11	JB			ug/L	EPA 8270D	B

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ANALYTICAL RESULTS

Description: GP-1 (17-21)
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010147-01
Sampled: 09/09/10 13:45
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147
% Solids: 93.2

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] ^	0.00017	U	mg/kg dry	1	0.00017	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.00021	U	mg/kg dry	1	0.00021	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
1,1-Dichloroethane [75-34-3] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
1,1-Dichloroethene [75-35-4] ^	0.00032	U	mg/kg dry	1	0.00032	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
1,1-Dichloropropene [563-58-6] ^	0.00034	U	mg/kg dry	1	0.00034	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.00023	U	mg/kg dry	1	0.00023	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.00036	U	mg/kg dry	1	0.00036	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.00085	U	mg/kg dry	1	0.00085	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
1,2-Dibromoethane [106-93-4] ^	0.00049	U	mg/kg dry	1	0.00049	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
1,2-Dichloroethane [107-06-2] ^	0.00041	U	mg/kg dry	1	0.00041	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
1,2-Dichloropropane [78-87-5] ^	0.00028	U	mg/kg dry	1	0.00028	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.00021	U	mg/kg dry	1	0.00021	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
1,3-Dichloropropane [142-28-9] ^	0.00031	U	mg/kg dry	1	0.00031	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.00021	U	mg/kg dry	1	0.00021	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
2,2-Dichloropropane [594-20-7] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
2-Butanone [78-93-3] ^	0.00084	U	mg/kg dry	1	0.00084	0.0054	0I21004	EPA 8260B	09/21/10 13:07	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.00053	U	mg/kg dry	1	0.00053	0.0054	0I21004	EPA 8260B	09/21/10 13:07	JKG	
2-Chlorotoluene [95-49-8] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
2-Hexanone [591-78-6] ^	0.00080	U	mg/kg dry	1	0.00080	0.0054	0I21004	EPA 8260B	09/21/10 13:07	JKG	
4-Chlorotoluene [106-43-4] ^	0.00028	U	mg/kg dry	1	0.00028	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
4-Isopropyltoluene [99-87-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.00061	U	mg/kg dry	1	0.00061	0.0054	0I21004	EPA 8260B	09/21/10 13:07	JKG	
Acetone [67-64-1] ^	0.0013	U	mg/kg dry	1	0.0013	0.0054	0I21004	EPA 8260B	09/21/10 13:07	JKG	
Benzene [71-43-2] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
Bromobenzene [108-86-1] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
Bromochloromethane [74-97-5] ^	0.00044	U	mg/kg dry	1	0.00044	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
Bromodichloromethane [75-27-4] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
Bromoform [75-25-2] ^	0.00048	U	mg/kg dry	1	0.00048	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
Bromomethane [74-83-9] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
Carbon disulfide [75-15-0] ^	0.00042	U	mg/kg dry	1	0.00042	0.0054	0I21004	EPA 8260B	09/21/10 13:07	JKG	
Carbon Tetrachloride [56-23-5] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
Chlorobenzene [108-90-7] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
Chloroethane [75-00-3] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
Chloroform [67-66-3] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
Chloromethane [74-87-3] ^	0.00016	U	mg/kg dry	1	0.00016	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.00014	U	mg/kg dry	1	0.00014	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
Dibromochloromethane [124-48-1] ^	0.00038	U	mg/kg dry	1	0.00038	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
Dibromomethane [74-95-3] ^	0.00033	U	mg/kg dry	1	0.00033	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.00048	U	mg/kg dry	1	0.00048	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
Ethylbenzene [100-41-4] ^	0.00021	U	mg/kg dry	1	0.00021	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
Hexachlorobutadiene [87-68-3] ^	0.00038	U	mg/kg dry	1	0.00038	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	

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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] ^	0.00016	U	mg/kg dry	1	0.00016	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.00040	U	mg/kg dry	1	0.00040	0.0021	0I21004	EPA 8260B	09/21/10 13:07	JKG	
Methylene Chloride [75-09-2] ^	0.00060	U	mg/kg dry	1	0.00060	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.00032	U	mg/kg dry	1	0.00032	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
Naphthalene [91-20-3] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
n-Butyl Benzene [104-51-8] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
n-Propyl Benzene [103-65-1] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
o-Xylene [95-47-6] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
sec-Butylbenzene [135-98-8] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
Styrene [100-42-5] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
tert-Butylbenzene [98-06-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
Tetrachloroethene [127-18-4] ^	0.00030	U	mg/kg dry	1	0.00030	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
Toluene [108-88-3] ^	0.00021	U	mg/kg dry	1	0.00021	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.00040	U	mg/kg dry	1	0.00040	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.00042	U	mg/kg dry	1	0.00042	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
Trichloroethene [79-01-6] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
Trichlorofluoromethane [75-69-4] ^	0.00028	U	mg/kg dry	1	0.00028	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
Vinyl chloride [75-01-4] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	
Xylenes (Total) [1330-20-7] ^	0.00060	U	mg/kg dry	1	0.00060	0.0011	0I21004	EPA 8260B	09/21/10 13:07	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*95 %*	*61-118*	*0I21004*	*EPA 8260B*	*09/21/10 13:07*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*93 %*	*66-114*	*0I21004*	*EPA 8260B*	*09/21/10 13:07*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*93 %*	*63-118*	*0I21004*	*EPA 8260B*	*09/21/10 13:07*	*JKG*	

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Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Carbon Dioxide [124-38-9]	**0.11**	J	mg/kg dry	1			0I21004	EPA 8260B	09/21/10 13:07	JKG	
Cyclopentasiloxane, decamet... [000541-02-6]	**0.0049**	JB	mg/kg dry	1			0I21004	EPA 8260B	09/21/10 13:07	JKG	
Cyclotetrasiloxane, octamet... [000556-67-2]	**0.010**	JB	mg/kg dry	1			0I21004	EPA 8260B	09/21/10 13:07	JKG	

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Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,2,4-Trichlorobenzene [120-82-1] ^	0.025	U	mg/kg dry	1	0.025	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
1,2-Dichlorobenzene [95-50-1] ^	0.034	U	mg/kg dry	1	0.034	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
1,3-Dichlorobenzene [541-73-1] ^	0.032	U	mg/kg dry	1	0.032	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
1,4-Dichlorobenzene [106-46-7] ^	0.029	U	mg/kg dry	1	0.029	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
1-Methylnaphthalene [90-12-0] ^	0.038	U	mg/kg dry	1	0.038	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	0.035	U	mg/kg dry	1	0.035	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	0.034	U	mg/kg dry	1	0.034	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
2,4-Dichlorophenol [120-83-2] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
2,4-Dimethylphenol [105-67-9] ^	0.063	U	mg/kg dry	1	0.063	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
2,4-Dinitrophenol [51-28-5] ^	0.050	U	mg/kg dry	1	0.050	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
2,4-Dinitrotoluene [121-14-2] ^	0.033	U	mg/kg dry	1	0.033	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
2,6-Dinitrotoluene [606-20-2] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
2-Chloronaphthalene [91-58-7] ^	0.026	U	mg/kg dry	1	0.026	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
2-Chlorophenol [95-57-8] ^	0.031	U	mg/kg dry	1	0.031	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	0.054	U	mg/kg dry	1	0.054	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
2-Methylnaphthalene [91-57-6] ^	0.040	U	mg/kg dry	1	0.040	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
2-Methylphenol [95-48-7] ^	0.041	U	mg/kg dry	1	0.041	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
2-Nitroaniline [88-74-4] ^	0.032	U	mg/kg dry	1	0.032	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
2-Nitrophenol [88-75-5] ^	0.035	U	mg/kg dry	1	0.035	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	0.045	U	mg/kg dry	1	0.045	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
3-Nitroaniline [99-09-2] ^	0.047	U	mg/kg dry	1	0.047	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	0.030	U	mg/kg dry	1	0.030	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
4-Chloroaniline [106-47-8] ^	0.032	U	mg/kg dry	1	0.032	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
4-Nitroaniline [100-01-6] ^	0.063	U	mg/kg dry	1	0.063	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
4-Nitrophenol [100-02-7] ^	0.045	U	mg/kg dry	1	0.045	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Acenaphthene [83-32-9] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Acenaphthylene [208-96-8] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Anthracene [120-12-7] ^	0.035	U	mg/kg dry	1	0.035	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Benzidine [92-87-5] ^	0.12	U	mg/kg dry	1	0.12	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	QV-01
Benzo(a)anthracene [56-55-3] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Benzo(a)pyrene [50-32-8] ^	0.029	U	mg/kg dry	1	0.029	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Benzo(b)fluoranthene [205-99-2] ^	0.029	U	mg/kg dry	1	0.029	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	0.042	U	mg/kg dry	1	0.042	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Benzo(k)fluoranthene [207-08-9] ^	0.029	U	mg/kg dry	1	0.029	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Benzoic acid [65-85-0] ^	0.12	U	mg/kg dry	1	0.12	1.8	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Benzyl alcohol [100-51-6] ^	0.071	U	mg/kg dry	1	0.071	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	0.023	U	mg/kg dry	1	0.023	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	0.054	U	mg/kg dry	1	0.054	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	0.028	U	mg/kg dry	1	0.028	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	0.040	U	mg/kg dry	1	0.040	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Butylbenzylphthalate [85-68-7] ^	0.036	U	mg/kg dry	1	0.036	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	QV-02
Chrysene [218-01-9] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	0.044	U	mg/kg dry	1	0.044	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Dibenzofuran [132-64-9] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Diethylphthalate [84-66-2] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Dimethylphthalate [131-11-3] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Di-n-butylphthalate [84-74-2] ^	**0.041**	J	mg/kg dry	1	0.033	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Di-n-octylphthalate [117-84-0] ^	0.029	U	mg/kg dry	1	0.029	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	

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Description: GP-1 (17-21)
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010147-01
Sampled: 09/09/10 13:45
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147
% Solids: 93.2

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Fluoranthene [206-44-0] ^	0.046	U	mg/kg dry	1	0.046	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Fluorene [86-73-7] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Hexachlorobenzene [118-74-1] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Hexachlorobutadiene [87-68-3] ^	0.030	U	mg/kg dry	1	0.030	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	0.046	U	mg/kg dry	1	0.046	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Hexachloroethane [67-72-1] ^	0.035	U	mg/kg dry	1	0.035	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	0.041	U	mg/kg dry	1	0.041	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Isophorone [78-59-1] ^	0.017	U	mg/kg dry	1	0.017	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Naphthalene [91-20-3] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Nitrobenzene [98-95-3] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
N-Nitrosodimethylamine [62-75-9] ^	0.029	U	mg/kg dry	1	0.029	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	0.018	U	mg/kg dry	1	0.018	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	0.028	U	mg/kg dry	1	0.028	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Pentachlorophenol [87-86-5] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Phenanthrene [85-01-8] ^	0.028	U	mg/kg dry	1	0.028	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Phenol [108-95-2] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Pyrene [129-00-0] ^	0.052	U	mg/kg dry	1	0.052	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	
Pyridine [110-86-1] ^	0.13	U	mg/kg dry	1	0.13	0.35	0I16021	EPA 8270D	09/20/10 20:26	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*2.9*	*1*	*3.58*	*80 %*	*28-130*	*0I16021*	*EPA 8270D*	*09/20/10 20:26*	*DFM*	
2-Fluorobiphenyl	*1.5*	*1*	*1.79*	*83 %*	*56-120*	*0I16021*	*EPA 8270D*	*09/20/10 20:26*	*DFM*	
2-Fluorophenol	*2.4*	*1*	*3.58*	*68 %*	*49-126*	*0I16021*	*EPA 8270D*	*09/20/10 20:26*	*DFM*	
Nitrobenzene-d5	*1.4*	*1*	*1.79*	*80 %*	*50-117*	*0I16021*	*EPA 8270D*	*09/20/10 20:26*	*DFM*	
Phenol-d5	*2.8*	*1*	*3.58*	*78 %*	*56-120*	*0I16021*	*EPA 8270D*	*09/20/10 20:26*	*DFM*	
Terphenyl-d14	*1.8*	*1*	*1.79*	*103 %*	*36-151*	*0I16021*	*EPA 8270D*	*09/20/10 20:26*	*DFM*	

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Description:	GP-1 (17-21)	**Lab Sample ID:**	C010147-01	**Received:**	09/10/10 17:30
Matrix:	Soil	**Sampled:**	09/09/10 13:45	**Work Order:**	C010147
Project:	Mary Chappell Site	**Sampled By:**	Gerald Paul	**% Solids:**	93.2

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Ethane, 1,1,2,2-tetrachloro- [000079-34-5]	**0.28**	JB	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 20:26	DFM	B
Unknown [NA]	**0.54**	JB	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 20:26	DFM	B

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Description: GP-1 (17-21)
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010147-01
Sampled: 09/09/10 13:45
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147
% Solids: 93.2

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.00034	U	mg/kg dry	1	0.00034	0.0018	0I14011	EPA 8081B	09/16/10 19:26	REF	
4,4'-DDE [72-55-9] ^	0.00044	U	mg/kg dry	1	0.00044	0.0018	0I14011	EPA 8081B	09/16/10 19:26	REF	
4,4'-DDT [50-29-3] ^	0.00056	U	mg/kg dry	1	0.00056	0.0018	0I14011	EPA 8081B	09/16/10 19:26	REF	
Aldrin [309-00-2] ^	0.00039	U	mg/kg dry	1	0.00039	0.0018	0I14011	EPA 8081B	09/16/10 19:26	REF	
alpha-BHC [319-84-6] ^	0.00053	U	mg/kg dry	1	0.00053	0.0018	0I14011	EPA 8081B	09/16/10 19:26	REF	
beta-BHC [319-85-7] ^	0.00076	U	mg/kg dry	1	0.00076	0.0018	0I14011	EPA 8081B	09/16/10 19:26	REF	
Chlordane (tech) [12789-03-6] ^	0.0012	U	mg/kg dry	1	0.0012	0.035	0I14011	EPA 8081B	09/16/10 19:26	REF	
Chlordane-alpha [5103-71-9] ^	0.00049	U	mg/kg dry	1	0.00049	0.0018	0I14011	EPA 8081B	09/16/10 19:26	REF	
Chlordane-gamma [5566-34-7] ^	0.00064	U	mg/kg dry	1	0.00064	0.0018	0I14011	EPA 8081B	09/16/10 19:26	REF	
delta-BHC [319-86-8] ^	0.00032	U	mg/kg dry	1	0.00032	0.0018	0I14011	EPA 8081B	09/16/10 19:26	REF	
Dieldrin [60-57-1] ^	0.00034	U	mg/kg dry	1	0.00034	0.0018	0I14011	EPA 8081B	09/16/10 19:26	REF	
Endosulfan I [959-98-8] ^	0.00044	U	mg/kg dry	1	0.00044	0.0018	0I14011	EPA 8081B	09/16/10 19:26	REF	
Endosulfan II [33213-65-9] ^	0.00042	U	mg/kg dry	1	0.00042	0.0018	0I14011	EPA 8081B	09/16/10 19:26	REF	
Endosulfan sulfate [1031-07-8] ^	0.00052	U	mg/kg dry	1	0.00052	0.0018	0I14011	EPA 8081B	09/16/10 19:26	REF	
Endrin [72-20-8] ^	0.00042	U	mg/kg dry	1	0.00042	0.0018	0I14011	EPA 8081B	09/16/10 19:26	REF	
Endrin aldehyde [7421-93-4] ^	0.00036	U	mg/kg dry	1	0.00036	0.0018	0I14011	EPA 8081B	09/16/10 19:26	REF	
Endrin ketone [53494-70-5] ^	0.00032	U	mg/kg dry	1	0.00032	0.0018	0I14011	EPA 8081B	09/16/10 19:26	REF	
gamma-BHC [58-89-9] ^	0.00045	U	mg/kg dry	1	0.00045	0.0018	0I14011	EPA 8081B	09/16/10 19:26	REF	
Heptachlor [76-44-8] ^	0.00049	U	mg/kg dry	1	0.00049	0.0018	0I14011	EPA 8081B	09/16/10 19:26	REF	
Heptachlor epoxide [1024-57-3] ^	0.00046	U	mg/kg dry	1	0.00046	0.0018	0I14011	EPA 8081B	09/16/10 19:26	REF	
Isodrin [465-73-6] ^	0.00039	U	mg/kg dry	1	0.00039	0.0018	0I14011	EPA 8081B	09/16/10 19:26	REF	
Methoxychlor [72-43-5] ^	0.00045	U	mg/kg dry	1	0.00045	0.0018	0I14011	EPA 8081B	09/16/10 19:26	REF	
Mirex [2385-85-5] ^	0.00060	U	mg/kg dry	1	0.00060	0.0018	0I14011	EPA 8081B	09/16/10 19:26	REF	
Toxaphene [8001-35-2] ^	0.011	U	mg/kg dry	1	0.011	0.018	0I14011	EPA 8081B	09/16/10 19:26	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.055*	*1*	*0.0358*	*152 %*	*59-137*	*0I14011*	*EPA 8081B*	*09/16/10 19:26*	*REF*	*QS-03*
Decachlorobiphenyl	*0.044*	*1*	*0.0358*	*123 %*	*60-140*	*0I14011*	*EPA 8081B*	*09/16/10 19:26*	*REF*	

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Description: GP-1 (17-21)
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010147-01
Sampled: 09/09/10 13:45
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147
% Solids: 93.2

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.118	U	mg/kg dry	1	0.118	1.07	0I20010	EPA 6010C	09/21/10 14:22	JDH	
Arsenic [7440-38-2] ^	**0.528**	J	mg/kg dry	1	0.107	0.537	0I20010	EPA 6010C	09/21/10 14:22	JDH	
Beryllium [7440-41-7] ^	0.0129	U	mg/kg dry	1	0.0129	0.0537	0I20010	EPA 6010C	09/21/10 14:22	JDH	
Cadmium [7440-43-9] ^	0.0103	U	mg/kg dry	1	0.0103	0.0537	0I20010	EPA 6010C	09/21/10 14:22	JDH	
Chromium [7440-47-3] ^	**0.925**		mg/kg dry	1	0.107	0.537	0I20010	EPA 6010C	09/21/10 14:22	JDH	
Copper [7440-50-8] ^	**0.454**	J	mg/kg dry	1	0.204	0.537	0I20010	EPA 6010C	09/21/10 14:22	JDH	
Lead [7439-92-1] ^	**0.473**	J	mg/kg dry	1	0.129	0.537	0I20010	EPA 6010C	09/21/10 14:22	JDH	
Manganese [7439-96-5] ^	**0.324**	J	mg/kg dry	1	0.107	0.537	0I20010	EPA 6010C	09/21/10 14:22	JDH	
Mercury [7439-97-6] ^	0.00515	U	mg/kg dry	1	0.00515	0.0107	0I14017	EPA 7471B	09/14/10 16:11	NLH	
Nickel [7440-02-0] ^	0.386	U	mg/kg dry	1	0.386	2.68	0I20010	EPA 6010C	09/21/10 14:22	JDH	
Selenium [7782-49-2] ^	**0.207**	JB	mg/kg dry	1	0.107	0.537	0I20010	EPA 6010C	09/21/10 14:22	JDH	J-01
Silver [7440-22-4] ^	0.107	U	mg/kg dry	1	0.107	0.537	0I20010	EPA 6010C	09/21/10 14:22	JDH	
Thallium [7440-28-0] ^	**0.165**	J	mg/kg dry	1	0.107	0.537	0I20010	EPA 6010C	09/21/10 14:22	JDH	
Zinc [7440-66-6] ^	1.18	U	mg/kg dry	1	1.18	2.68	0I20010	EPA 6010C	09/21/10 14:22	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: GP-2 (17-21)
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010147-02
Sampled: 09/09/10 16:45
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147
% Solids: 90.5

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] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.00020	U	mg/kg dry	1	0.00020	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
1,1-Dichloroethane [75-34-3] ^	0.00028	U	mg/kg dry	1	0.00028	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
1,1-Dichloroethene [75-35-4] ^	0.00033	U	mg/kg dry	1	0.00033	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
1,1-Dichloropropene [563-58-6] ^	0.00035	U	mg/kg dry	1	0.00035	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.00023	U	mg/kg dry	1	0.00023	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.00038	U	mg/kg dry	1	0.00038	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.00030	U	mg/kg dry	1	0.00030	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.00087	U	mg/kg dry	1	0.00087	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
1,2-Dibromoethane [106-93-4] ^	0.00051	U	mg/kg dry	1	0.00051	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.00030	U	mg/kg dry	1	0.00030	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
1,2-Dichloroethane [107-06-2] ^	0.00042	U	mg/kg dry	1	0.00042	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
1,2-Dichloropropane [78-87-5] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
1,3-Dichloropropane [142-28-9] ^	0.00032	U	mg/kg dry	1	0.00032	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
2,2-Dichloropropane [594-20-7] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
2-Butanone [78-93-3] ^	0.00086	U	mg/kg dry	1	0.00086	0.0055	0I15005	EPA 8260B	09/15/10 21:59	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.00054	U	mg/kg dry	1	0.00054	0.0055	0I15005	EPA 8260B	09/15/10 21:59	JKG	
2-Chlorotoluene [95-49-8] ^	0.00020	U	mg/kg dry	1	0.00020	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
2-Hexanone [591-78-6] ^	0.00083	U	mg/kg dry	1	0.00083	0.0055	0I15005	EPA 8260B	09/15/10 21:59	JKG	
4-Chlorotoluene [106-43-4] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
4-Isopropyltoluene [99-87-6] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.00063	U	mg/kg dry	1	0.00063	0.0055	0I15005	EPA 8260B	09/15/10 21:59	JKG	
Acetone [67-64-1] ^	0.0013	U	mg/kg dry	1	0.0013	0.0055	0I15005	EPA 8260B	09/15/10 21:59	JKG	
Benzene [71-43-2] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
Bromobenzene [108-86-1] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
Bromochloromethane [74-97-5] ^	0.00045	U	mg/kg dry	1	0.00045	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
Bromodichloromethane [75-27-4] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
Bromoform [75-25-2] ^	0.00050	U	mg/kg dry	1	0.00050	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
Bromomethane [74-83-9] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
Carbon disulfide [75-15-0] ^	0.00043	U	mg/kg dry	1	0.00043	0.0055	0I15005	EPA 8260B	09/15/10 21:59	JKG	
Carbon Tetrachloride [56-23-5] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
Chlorobenzene [108-90-7] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
Chloroethane [75-00-3] ^	0.00028	U	mg/kg dry	1	0.00028	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
Chloroform [67-66-3] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
Chloromethane [74-87-3] ^	0.00017	U	mg/kg dry	1	0.00017	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.00014	U	mg/kg dry	1	0.00014	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
Dibromochloromethane [124-48-1] ^	0.00039	U	mg/kg dry	1	0.00039	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
Dibromomethane [74-95-3] ^	0.00034	U	mg/kg dry	1	0.00034	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.00050	U	mg/kg dry	1	0.00050	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
Ethylbenzene [100-41-4] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
Hexachlorobutadiene [87-68-3] ^	0.00039	U	mg/kg dry	1	0.00039	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
Isopropylbenzene [98-82-8] ^	0.00017	U	mg/kg dry	1	0.00017	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.00041	U	mg/kg dry	1	0.00041	0.0022	0I15005	EPA 8260B	09/15/10 21:59	JKG	
Methylene Chloride [75-09-2] ^	0.00062	U	mg/kg dry	1	0.00062	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	

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Description: GP-2 (17-21)
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010147-02
Sampled: 09/09/10 16:45
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147
% Solids: 90.5

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
Methyl-tert-Butyl Ether [1634-04-4] ^	0.00033	U	mg/kg dry	1	0.00033	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
Naphthalene [91-20-3] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
n-Butyl Benzene [104-51-8] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
n-Propyl Benzene [103-65-1] ^	0.00020	U	mg/kg dry	1	0.00020	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
o-Xylene [95-47-6] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
sec-Butylbenzene [135-98-8] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
Styrene [100-42-5] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
tert-Butylbenzene [98-06-6] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
Tetrachloroethene [127-18-4] ^	0.00031	U	mg/kg dry	1	0.00031	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
Toluene [108-88-3] ^	0.00022	U	mg/kg dry	1	0.00022	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.00041	U	mg/kg dry	1	0.00041	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.00043	U	mg/kg dry	1	0.00043	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
Trichloroethene [79-01-6] ^	0.00030	U	mg/kg dry	1	0.00030	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
Trichlorofluoromethane [75-69-4] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
Vinyl chloride [75-01-4] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	
Xylenes (Total) [1330-20-7] ^	0.00062	U	mg/kg dry	1	0.00062	0.0011	0I15005	EPA 8260B	09/15/10 21:59	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*100 %*	*61-118*	*0I15005*	*EPA 8260B*	*09/15/10 21:59*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*93 %*	*66-114*	*0I15005*	*EPA 8260B*	*09/15/10 21:59*	*JKG*	
Toluene-d8	*52*	*1*	*50.0*	*103 %*	*63-118*	*0I15005*	*EPA 8260B*	*09/15/10 21:59*	*JKG*	

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Description: GP-2 (17-21)
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010147-02
Sampled: 09/09/10 16:45
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147
% Solids: 90.5

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Carbon Dioxide [124-38-9]	**0.086**	J	mg/kg dry	1			0I15005	EPA 8260B	09/15/10 21:59	JKG	
Cyclopentasiloxane, decamet... [000541-02-6]	**0.0060**	JB	mg/kg dry	1			0I15005	EPA 8260B	09/15/10 21:59	JKG	
Cyclotetrasiloxane, octamet... [000556-67-2]	**0.015**	J	mg/kg dry	1			0I15005	EPA 8260B	09/15/10 21:59	JKG	

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Description: GP-2 (17-21)
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010147-02
Sampled: 09/09/10 16:45
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147
% Solids: 90.5

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,2,4-Trichlorobenzene [120-82-1] ^	0.025	U	mg/kg dry	1	0.025	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
1,2-Dichlorobenzene [95-50-1] ^	0.035	U	mg/kg dry	1	0.035	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
1,3-Dichlorobenzene [541-73-1] ^	0.033	U	mg/kg dry	1	0.033	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
1,4-Dichlorobenzene [106-46-7] ^	0.030	U	mg/kg dry	1	0.030	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
1-Methylnaphthalene [90-12-0] ^	0.039	U	mg/kg dry	1	0.039	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	0.036	U	mg/kg dry	1	0.036	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	0.035	U	mg/kg dry	1	0.035	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
2,4-Dichlorophenol [120-83-2] ^	0.028	U	mg/kg dry	1	0.028	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
2,4-Dimethylphenol [105-67-9] ^	0.065	U	mg/kg dry	1	0.065	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
2,4-Dinitrophenol [51-28-5] ^	0.052	U	mg/kg dry	1	0.052	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
2,4-Dinitrotoluene [121-14-2] ^	0.034	U	mg/kg dry	1	0.034	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
2,6-Dinitrotoluene [606-20-2] ^	0.028	U	mg/kg dry	1	0.028	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
2-Chloronaphthalene [91-58-7] ^	0.027	U	mg/kg dry	1	0.027	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
2-Chlorophenol [95-57-8] ^	0.032	U	mg/kg dry	1	0.032	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	0.055	U	mg/kg dry	1	0.055	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
2-Methylnaphthalene [91-57-6] ^	0.041	U	mg/kg dry	1	0.041	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
2-Methylphenol [95-48-7] ^	0.042	U	mg/kg dry	1	0.042	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
2-Nitroaniline [88-74-4] ^	0.033	U	mg/kg dry	1	0.033	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
2-Nitrophenol [88-75-5] ^	0.036	U	mg/kg dry	1	0.036	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	0.028	U	mg/kg dry	1	0.028	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	0.046	U	mg/kg dry	1	0.046	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
3-Nitroaniline [99-09-2] ^	0.049	U	mg/kg dry	1	0.049	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	0.028	U	mg/kg dry	1	0.028	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	0.031	U	mg/kg dry	1	0.031	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
4-Chloroaniline [106-47-8] ^	0.033	U	mg/kg dry	1	0.033	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	0.028	U	mg/kg dry	1	0.028	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
4-Nitroaniline [100-01-6] ^	0.065	U	mg/kg dry	1	0.065	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
4-Nitrophenol [100-02-7] ^	0.046	U	mg/kg dry	1	0.046	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Acenaphthene [83-32-9] ^	0.028	U	mg/kg dry	1	0.028	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Acenaphthylene [208-96-8] ^	0.028	U	mg/kg dry	1	0.028	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Anthracene [120-12-7] ^	0.036	U	mg/kg dry	1	0.036	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Benzidine [92-87-5] ^	0.12	U	mg/kg dry	1	0.12	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	QV-01
Benzo(a)anthracene [56-55-3] ^	0.028	U	mg/kg dry	1	0.028	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Benzo(a)pyrene [50-32-8] ^	0.030	U	mg/kg dry	1	0.030	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Benzo(b)fluoranthene [205-99-2] ^	0.030	U	mg/kg dry	1	0.030	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	0.043	U	mg/kg dry	1	0.043	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Benzo(k)fluoranthene [207-08-9] ^	0.030	U	mg/kg dry	1	0.030	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Benzoic acid [65-85-0] ^	0.12	U	mg/kg dry	1	0.12	1.9	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Benzyl alcohol [100-51-6] ^	0.073	U	mg/kg dry	1	0.073	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	0.023	U	mg/kg dry	1	0.023	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	0.055	U	mg/kg dry	1	0.055	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	0.029	U	mg/kg dry	1	0.029	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	0.041	U	mg/kg dry	1	0.041	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Butylbenzylphthalate [85-68-7] ^	0.038	U	mg/kg dry	1	0.038	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	QV-02
Chrysene [218-01-9] ^	0.028	U	mg/kg dry	1	0.028	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	0.045	U	mg/kg dry	1	0.045	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Dibenzofuran [132-64-9] ^	0.028	U	mg/kg dry	1	0.028	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Diethylphthalate [84-66-2] ^	0.028	U	mg/kg dry	1	0.028	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Dimethylphthalate [131-11-3] ^	0.028	U	mg/kg dry	1	0.028	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Di-n-butylphthalate [84-74-2] ^	0.034	U	mg/kg dry	1	0.034	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Di-n-octylphthalate [117-84-0] ^	0.030	U	mg/kg dry	1	0.030	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	

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Description: GP-2 (17-21)
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010147-02
Sampled: 09/09/10 16:45
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147
% Solids: 90.5

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Fluoranthene [206-44-0] ^	0.048	U	mg/kg dry	1	0.048	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Fluorene [86-73-7] ^	0.028	U	mg/kg dry	1	0.028	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Hexachlorobenzene [118-74-1] ^	0.028	U	mg/kg dry	1	0.028	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Hexachlorobutadiene [87-68-3] ^	0.031	U	mg/kg dry	1	0.031	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	0.048	U	mg/kg dry	1	0.048	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Hexachloroethane [67-72-1] ^	0.036	U	mg/kg dry	1	0.036	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	0.042	U	mg/kg dry	1	0.042	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Isophorone [78-59-1] ^	0.018	U	mg/kg dry	1	0.018	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Naphthalene [91-20-3] ^	0.028	U	mg/kg dry	1	0.028	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Nitrobenzene [98-95-3] ^	0.028	U	mg/kg dry	1	0.028	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
N-Nitrosodimethylamine [62-75-9] ^	0.030	U	mg/kg dry	1	0.030	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	0.019	U	mg/kg dry	1	0.019	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	0.029	U	mg/kg dry	1	0.029	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Pentachlorophenol [87-86-5] ^	0.028	U	mg/kg dry	1	0.028	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Phenanthrene [85-01-8] ^	0.029	U	mg/kg dry	1	0.029	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Phenol [108-95-2] ^	0.028	U	mg/kg dry	1	0.028	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Pyrene [129-00-0] ^	0.053	U	mg/kg dry	1	0.053	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	
Pyridine [110-86-1] ^	0.13	U	mg/kg dry	1	0.13	0.36	0I16021	EPA 8270D	09/20/10 20:56	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*2.5*	*1*	*3.68*	*69 %*	*28-130*	*0I16021*	*EPA 8270D*	*09/20/10 20:56*	*DFM*	
2-Fluorobiphenyl	*1.4*	*1*	*1.84*	*77 %*	*56-120*	*0I16021*	*EPA 8270D*	*09/20/10 20:56*	*DFM*	
2-Fluorophenol	*2.4*	*1*	*3.68*	*66 %*	*49-126*	*0I16021*	*EPA 8270D*	*09/20/10 20:56*	*DFM*	
Nitrobenzene-d5	*1.4*	*1*	*1.84*	*77 %*	*50-117*	*0I16021*	*EPA 8270D*	*09/20/10 20:56*	*DFM*	
Phenol-d5	*2.7*	*1*	*3.68*	*73 %*	*56-120*	*0I16021*	*EPA 8270D*	*09/20/10 20:56*	*DFM*	
Terphenyl-d14	*2.0*	*1*	*1.84*	*108 %*	*36-151*	*0I16021*	*EPA 8270D*	*09/20/10 20:56*	*DFM*	

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Description: GP-2 (17-21)	**Lab Sample ID:** C010147-02	**Received:** 09/10/10 17:30
Matrix: Soil	**Sampled:** 09/09/10 16:45	**Work Order:** C010147
Project: Mary Chappell Site	**Sampled By:** Gerald Paul	**% Solids:** 90.5

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Ethane, 1,1,2,2-tetrachloro- [000079-34-5]	**0.25**	JB	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 20:56	DFM	B
Unknown [NA]	**0.51**	JB	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 20:56	DFM	B

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Description: GP-2 (17-21)
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010147-02
Sampled: 09/09/10 16:45
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147
% Solids: 90.5

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.00035	U	mg/kg dry	1	0.00035	0.0019	0I14011	EPA 8081B	09/16/10 19:40	REF	
4,4'-DDE [72-55-9] ^	0.00045	U	mg/kg dry	1	0.00045	0.0019	0I14011	EPA 8081B	09/16/10 19:40	REF	
4,4'-DDT [50-29-3] ^	0.00057	U	mg/kg dry	1	0.00057	0.0019	0I14011	EPA 8081B	09/16/10 19:40	REF	
Aldrin [309-00-2] ^	0.00040	U	mg/kg dry	1	0.00040	0.0019	0I14011	EPA 8081B	09/16/10 19:40	REF	
alpha-BHC [319-84-6] ^	0.00054	U	mg/kg dry	1	0.00054	0.0019	0I14011	EPA 8081B	09/16/10 19:40	REF	
beta-BHC [319-85-7] ^	0.00078	U	mg/kg dry	1	0.00078	0.0019	0I14011	EPA 8081B	09/16/10 19:40	REF	
Chlordane (tech) [12789-03-6] ^	0.0012	U	mg/kg dry	1	0.0012	0.036	0I14011	EPA 8081B	09/16/10 19:40	REF	
Chlordane-alpha [5103-71-9] ^	0.00051	U	mg/kg dry	1	0.00051	0.0019	0I14011	EPA 8081B	09/16/10 19:40	REF	
Chlordane-gamma [5566-34-7] ^	0.00066	U	mg/kg dry	1	0.00066	0.0019	0I14011	EPA 8081B	09/16/10 19:40	REF	
delta-BHC [319-86-8] ^	0.00033	U	mg/kg dry	1	0.00033	0.0019	0I14011	EPA 8081B	09/16/10 19:40	REF	
Dieldrin [60-57-1] ^	0.00035	U	mg/kg dry	1	0.00035	0.0019	0I14011	EPA 8081B	09/16/10 19:40	REF	
Endosulfan I [959-98-8] ^	0.00045	U	mg/kg dry	1	0.00045	0.0019	0I14011	EPA 8081B	09/16/10 19:40	REF	
Endosulfan II [33213-65-9] ^	0.00043	U	mg/kg dry	1	0.00043	0.0019	0I14011	EPA 8081B	09/16/10 19:40	REF	
Endosulfan sulfate [1031-07-8] ^	0.00053	U	mg/kg dry	1	0.00053	0.0019	0I14011	EPA 8081B	09/16/10 19:40	REF	
Endrin [72-20-8] ^	0.00043	U	mg/kg dry	1	0.00043	0.0019	0I14011	EPA 8081B	09/16/10 19:40	REF	
Endrin aldehyde [7421-93-4] ^	0.00038	U	mg/kg dry	1	0.00038	0.0019	0I14011	EPA 8081B	09/16/10 19:40	REF	
Endrin ketone [53494-70-5] ^	0.00033	U	mg/kg dry	1	0.00033	0.0019	0I14011	EPA 8081B	09/16/10 19:40	REF	
gamma-BHC [58-89-9] ^	0.00046	U	mg/kg dry	1	0.00046	0.0019	0I14011	EPA 8081B	09/16/10 19:40	REF	
Heptachlor [76-44-8] ^	0.00051	U	mg/kg dry	1	0.00051	0.0019	0I14011	EPA 8081B	09/16/10 19:40	REF	
Heptachlor epoxide [1024-57-3] ^	0.00048	U	mg/kg dry	1	0.00048	0.0019	0I14011	EPA 8081B	09/16/10 19:40	REF	
Isodrin [465-73-6] ^	0.00040	U	mg/kg dry	1	0.00040	0.0019	0I14011	EPA 8081B	09/16/10 19:40	REF	
Methoxychlor [72-43-5] ^	0.00046	U	mg/kg dry	1	0.00046	0.0019	0I14011	EPA 8081B	09/16/10 19:40	REF	
Mirex [2385-85-5] ^	0.00062	U	mg/kg dry	1	0.00062	0.0019	0I14011	EPA 8081B	09/16/10 19:40	REF	
Toxaphene [8001-35-2] ^	0.011	U	mg/kg dry	1	0.011	0.019	0I14011	EPA 8081B	09/16/10 19:40	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.056*	*1*	*0.0368*	*151 %*	*59-137*	*0I14011*	*EPA 8081B*	*09/16/10 19:40*	*REF*	*QS-03*
Decachlorobiphenyl	*0.045*	*1*	*0.0368*	*123 %*	*60-140*	*0I14011*	*EPA 8081B*	*09/16/10 19:40*	*REF*	

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Description: GP-2 (17-21)
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010147-02
Sampled: 09/09/10 16:45
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147
% Solids: 90.5

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.122	U	mg/kg dry	1	0.122	1.10	0I20010	EPA 6010C	09/21/10 14:36	JDH	
Arsenic [7440-38-2] ^	**10.7**		mg/kg dry	1	0.110	0.552	0I20010	EPA 6010C	09/21/10 14:36	JDH	
Beryllium [7440-41-7] ^	**0.0210**	J	mg/kg dry	1	0.0133	0.0552	0I20010	EPA 6010C	09/21/10 14:36	JDH	
Cadmium [7440-43-9] ^	0.0106	U	mg/kg dry	1	0.0106	0.0552	0I20010	EPA 6010C	09/21/10 14:36	JDH	
Chromium [7440-47-3] ^	**29.2**		mg/kg dry	1	0.110	0.552	0I20010	EPA 6010C	09/21/10 14:36	JDH	
Copper [7440-50-8] ^	**49.2**		mg/kg dry	1	0.210	0.552	0I20010	EPA 6010C	09/21/10 14:36	JDH	
Lead [7439-92-1] ^	**3.17**		mg/kg dry	1	0.133	0.552	0I20010	EPA 6010C	09/21/10 14:36	JDH	
Manganese [7439-96-5] ^	**2.61**		mg/kg dry	1	0.110	0.552	0I20010	EPA 6010C	09/21/10 14:36	JDH	
Mercury [7439-97-6] ^	0.00530	U	mg/kg dry	1	0.00530	0.0110	0I14017	EPA 7471B	09/14/10 16:26	NLH	
Nickel [7440-02-0] ^	0.398	U	mg/kg dry	1	0.398	2.76	0I20010	EPA 6010C	09/21/10 14:36	JDH	
Selenium [7782-49-2] ^	**23.6**	B	mg/kg dry	1	0.110	0.552	0I20010	EPA 6010C	09/21/10 14:36	JDH	QB-01
Silver [7440-22-4] ^	0.110	U	mg/kg dry	1	0.110	0.552	0I20010	EPA 6010C	09/21/10 14:36	JDH	
Thallium [7440-28-0] ^	**0.637**		mg/kg dry	1	0.110	0.552	0I20010	EPA 6010C	09/21/10 14:36	JDH	
Zinc [7440-66-6] ^	**3.32**		mg/kg dry	1	1.22	2.76	0I20010	EPA 6010C	09/21/10 14:36	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: GP-7 (25-29)
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010147-03
Sampled: 09/08/10 18:40
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147
% Solids: 88.3

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] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.00020	U	mg/kg dry	1	0.00020	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.00023	U	mg/kg dry	1	0.00023	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
1,1-Dichloroethane [75-34-3] ^	0.00028	U	mg/kg dry	1	0.00028	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
1,1-Dichloroethene [75-35-4] ^	0.00034	U	mg/kg dry	1	0.00034	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
1,1-Dichloropropene [563-58-6] ^	0.00036	U	mg/kg dry	1	0.00036	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.00039	U	mg/kg dry	1	0.00039	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.00031	U	mg/kg dry	1	0.00031	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.00089	U	mg/kg dry	1	0.00089	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
1,2-Dibromoethane [106-93-4] ^	0.00052	U	mg/kg dry	1	0.00052	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.00031	U	mg/kg dry	1	0.00031	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
1,2-Dichloroethane [107-06-2] ^	0.00043	U	mg/kg dry	1	0.00043	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
1,2-Dichloropropane [78-87-5] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.00023	U	mg/kg dry	1	0.00023	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
1,3-Dichloropropane [142-28-9] ^	0.00033	U	mg/kg dry	1	0.00033	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.00023	U	mg/kg dry	1	0.00023	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
2,2-Dichloropropane [594-20-7] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
2-Butanone [78-93-3] ^	0.00088	U	mg/kg dry	1	0.00088	0.0057	OI15005	EPA 8260B	09/15/10 22:28	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.00055	U	mg/kg dry	1	0.00055	0.0057	OI15005	EPA 8260B	09/15/10 22:28	JKG	
2-Chlorotoluene [95-49-8] ^	0.00020	U	mg/kg dry	1	0.00020	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
2-Hexanone [591-78-6] ^	0.00085	U	mg/kg dry	1	0.00085	0.0057	OI15005	EPA 8260B	09/15/10 22:28	JKG	
4-Chlorotoluene [106-43-4] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
4-Isopropyltoluene [99-87-6] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.00065	U	mg/kg dry	1	0.00065	0.0057	OI15005	EPA 8260B	09/15/10 22:28	JKG	
Acetone [67-64-1] ^	0.0014	U	mg/kg dry	1	0.0014	0.0057	OI15005	EPA 8260B	09/15/10 22:28	JKG	
Benzene [71-43-2] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
Bromobenzene [108-86-1] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
Bromochloromethane [74-97-5] ^	0.00046	U	mg/kg dry	1	0.00046	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
Bromodichloromethane [75-27-4] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
Bromoform [75-25-2] ^	0.00051	U	mg/kg dry	1	0.00051	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
Bromomethane [74-83-9] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
Carbon disulfide [75-15-0] ^	0.00044	U	mg/kg dry	1	0.00044	0.0057	OI15005	EPA 8260B	09/15/10 22:28	JKG	
Carbon Tetrachloride [56-23-5] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
Chlorobenzene [108-90-7] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
Chloroethane [75-00-3] ^	0.00028	U	mg/kg dry	1	0.00028	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
Chloroform [67-66-3] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
Chloromethane [74-87-3] ^	0.00017	U	mg/kg dry	1	0.00017	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.00015	U	mg/kg dry	1	0.00015	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
Dibromochloromethane [124-48-1] ^	0.00040	U	mg/kg dry	1	0.00040	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
Dibromomethane [74-95-3] ^	0.00035	U	mg/kg dry	1	0.00035	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.00051	U	mg/kg dry	1	0.00051	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
Ethylbenzene [100-41-4] ^	0.00023	U	mg/kg dry	1	0.00023	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
Hexachlorobutadiene [87-68-3] ^	0.00040	U	mg/kg dry	1	0.00040	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
Isopropylbenzene [98-82-8] ^	0.00017	U	mg/kg dry	1	0.00017	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.00042	U	mg/kg dry	1	0.00042	0.0023	OI15005	EPA 8260B	09/15/10 22:28	JKG	
Methylene Chloride [75-09-2] ^	0.00063	U	mg/kg dry	1	0.00063	0.0011	OI15005	EPA 8260B	09/15/10 22:28	JKG	

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Description: GP-7 (25-29)
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010147-03
Sampled: 09/08/10 18:40
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147
% Solids: 88.3

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] ^	0.00034	U	mg/kg dry	1	0.00034	0.0011	0I15005	EPA 8260B	09/15/10 22:28	JKG	
Naphthalene [91-20-3] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	0I15005	EPA 8260B	09/15/10 22:28	JKG	
n-Butyl Benzene [104-51-8] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I15005	EPA 8260B	09/15/10 22:28	JKG	
n-Propyl Benzene [103-65-1] ^	0.00020	U	mg/kg dry	1	0.00020	0.0011	0I15005	EPA 8260B	09/15/10 22:28	JKG	
o-Xylene [95-47-6] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I15005	EPA 8260B	09/15/10 22:28	JKG	
sec-Butylbenzene [135-98-8] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I15005	EPA 8260B	09/15/10 22:28	JKG	
Styrene [100-42-5] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	0I15005	EPA 8260B	09/15/10 22:28	JKG	
tert-Butylbenzene [98-06-6] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0I15005	EPA 8260B	09/15/10 22:28	JKG	
Tetrachloroethene [127-18-4] ^	0.00032	U	mg/kg dry	1	0.00032	0.0011	0I15005	EPA 8260B	09/15/10 22:28	JKG	
Toluene [108-88-3] ^	0.00023	U	mg/kg dry	1	0.00023	0.0011	0I15005	EPA 8260B	09/15/10 22:28	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.00042	U	mg/kg dry	1	0.00042	0.0011	0I15005	EPA 8260B	09/15/10 22:28	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.00044	U	mg/kg dry	1	0.00044	0.0011	0I15005	EPA 8260B	09/15/10 22:28	JKG	
Trichloroethene [79-01-6] ^	0.00031	U	mg/kg dry	1	0.00031	0.0011	0I15005	EPA 8260B	09/15/10 22:28	JKG	
Trichlorofluoromethane [75-69-4] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	0I15005	EPA 8260B	09/15/10 22:28	JKG	
Vinyl chloride [75-01-4] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	0I15005	EPA 8260B	09/15/10 22:28	JKG	
Xylenes (Total) [1330-20-7] ^	0.00063	U	mg/kg dry	1	0.00063	0.0011	0I15005	EPA 8260B	09/15/10 22:28	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*101 %*	*61-118*	*0I15005*	*EPA 8260B*	*09/15/10 22:28*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*66-114*	*0I15005*	*EPA 8260B*	*09/15/10 22:28*	*JKG*	
Toluene-d8	*52*	*1*	*50.0*	*103 %*	*63-118*	*0I15005*	*EPA 8260B*	*09/15/10 22:28*	*JKG*	

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Description: GP-7 (25-29)
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010147-03
Sampled: 09/08/10 18:40
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147
% Solids: 88.3

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Carbon Dioxide [124-38-9]	**0.11**	J	mg/kg dry	1			0I15005	EPA 8260B	09/15/10 22:28	JKG	
Cyclopentasiloxane, decamet... [000541-02-6]	**0.0053**	JB	mg/kg dry	1			0I15005	EPA 8260B	09/15/10 22:28	JKG	
Cyclotetrasiloxane, octamet... [000556-67-2]	**0.013**	J	mg/kg dry	1			0I15005	EPA 8260B	09/15/10 22:28	JKG	

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Description: GP-7 (25-29) | **Lab Sample ID:** C010147-03 | **Received:** 09/10/10 17:30

Matrix: Soil | **Sampled:** 09/08/10 18:40 | **Work Order:** C010147

Project: Mary Chappell Site | **Sampled By:** Gerald Paul | **% Solids:** 88.3

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,2,4-Trichlorobenzene [120-82-1] ^	0.026	U	mg/kg dry	1	0.026	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
1,2-Dichlorobenzene [95-50-1] ^	0.036	U	mg/kg dry	1	0.036	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
1,3-Dichlorobenzene [541-73-1] ^	0.034	U	mg/kg dry	1	0.034	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
1,4-Dichlorobenzene [106-46-7] ^	0.031	U	mg/kg dry	1	0.031	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
1-Methylnaphthalene [90-12-0] ^	0.040	U	mg/kg dry	1	0.040	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	0.037	U	mg/kg dry	1	0.037	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	0.036	U	mg/kg dry	1	0.036	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
2,4-Dichlorophenol [120-83-2] ^	0.028	U	mg/kg dry	1	0.028	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
2,4-Dimethylphenol [105-67-9] ^	0.067	U	mg/kg dry	1	0.067	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
2,4-Dinitrophenol [51-28-5] ^	0.053	U	mg/kg dry	1	0.053	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
2,4-Dinitrotoluene [121-14-2] ^	0.035	U	mg/kg dry	1	0.035	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
2,6-Dinitrotoluene [606-20-2] ^	0.028	U	mg/kg dry	1	0.028	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
2-Chloronaphthalene [91-58-7] ^	0.027	U	mg/kg dry	1	0.027	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
2-Chlorophenol [95-57-8] ^	0.033	U	mg/kg dry	1	0.033	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	0.057	U	mg/kg dry	1	0.057	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
2-Methylnaphthalene [91-57-6] ^	0.042	U	mg/kg dry	1	0.042	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
2-Methylphenol [95-48-7] ^	0.043	U	mg/kg dry	1	0.043	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
2-Nitroaniline [88-74-4] ^	0.034	U	mg/kg dry	1	0.034	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
2-Nitrophenol [88-75-5] ^	0.037	U	mg/kg dry	1	0.037	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	0.028	U	mg/kg dry	1	0.028	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	0.048	U	mg/kg dry	1	0.048	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
3-Nitroaniline [99-09-2] ^	0.050	U	mg/kg dry	1	0.050	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	0.028	U	mg/kg dry	1	0.028	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	0.032	U	mg/kg dry	1	0.032	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
4-Chloroaniline [106-47-8] ^	0.034	U	mg/kg dry	1	0.034	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	0.028	U	mg/kg dry	1	0.028	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
4-Nitroaniline [100-01-6] ^	0.067	U	mg/kg dry	1	0.067	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
4-Nitrophenol [100-02-7] ^	0.048	U	mg/kg dry	1	0.048	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Acenaphthene [83-32-9] ^	0.028	U	mg/kg dry	1	0.028	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Acenaphthylene [208-96-8] ^	0.028	U	mg/kg dry	1	0.028	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Anthracene [120-12-7] ^	0.037	U	mg/kg dry	1	0.037	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Benzidine [92-87-5] ^	0.12	U	mg/kg dry	1	0.12	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	QV-01
Benzo(a)anthracene [56-55-3] ^	0.028	U	mg/kg dry	1	0.028	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Benzo(a)pyrene [50-32-8] ^	0.031	U	mg/kg dry	1	0.031	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Benzo(b)fluoranthene [205-99-2] ^	0.031	U	mg/kg dry	1	0.031	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	0.044	U	mg/kg dry	1	0.044	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Benzo(k)fluoranthene [207-08-9] ^	0.031	U	mg/kg dry	1	0.031	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Benzoic acid [65-85-0] ^	0.12	U	mg/kg dry	1	0.12	1.9	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Benzyl alcohol [100-51-6] ^	0.075	U	mg/kg dry	1	0.075	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	0.024	U	mg/kg dry	1	0.024	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	0.057	U	mg/kg dry	1	0.057	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	0.029	U	mg/kg dry	1	0.029	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	0.042	U	mg/kg dry	1	0.042	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Butylbenzylphthalate [85-68-7] ^	0.039	U	mg/kg dry	1	0.039	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	QV-02
Chrysene [218-01-9] ^	0.028	U	mg/kg dry	1	0.028	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	0.046	U	mg/kg dry	1	0.046	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Dibenzofuran [132-64-9] ^	0.028	U	mg/kg dry	1	0.028	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Diethylphthalate [84-66-2] ^	0.028	U	mg/kg dry	1	0.028	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Dimethylphthalate [131-11-3] ^	0.028	U	mg/kg dry	1	0.028	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Di-n-butylphthalate [84-74-2] ^	0.035	U	mg/kg dry	1	0.035	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Di-n-octylphthalate [117-84-0] ^	0.031	U	mg/kg dry	1	0.031	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	

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Description: GP-7 (25-29)
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010147-03
Sampled: 09/08/10 18:40
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147
% Solids: 88.3

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Fluoranthene [206-44-0] ^	0.049	U	mg/kg dry	1	0.049	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Fluorene [86-73-7] ^	0.028	U	mg/kg dry	1	0.028	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Hexachlorobenzene [118-74-1] ^	0.028	U	mg/kg dry	1	0.028	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Hexachlorobutadiene [87-68-3] ^	0.032	U	mg/kg dry	1	0.032	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	0.049	U	mg/kg dry	1	0.049	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Hexachloroethane [67-72-1] ^	0.037	U	mg/kg dry	1	0.037	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	0.043	U	mg/kg dry	1	0.043	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Isophorone [78-59-1] ^	0.018	U	mg/kg dry	1	0.018	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Naphthalene [91-20-3] ^	0.028	U	mg/kg dry	1	0.028	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Nitrobenzene [98-95-3] ^	0.028	U	mg/kg dry	1	0.028	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
N-Nitrosodimethylamine [62-75-9] ^	0.031	U	mg/kg dry	1	0.031	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	0.019	U	mg/kg dry	1	0.019	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	0.029	U	mg/kg dry	1	0.029	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Pentachlorophenol [87-86-5] ^	0.028	U	mg/kg dry	1	0.028	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Phenanthrene [85-01-8] ^	0.029	U	mg/kg dry	1	0.029	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Phenol [108-95-2] ^	0.028	U	mg/kg dry	1	0.028	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Pyrene [129-00-0] ^	0.054	U	mg/kg dry	1	0.054	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	
Pyridine [110-86-1] ^	0.14	U	mg/kg dry	1	0.14	0.37	0I16021	EPA 8270D	09/20/10 17:28	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*2.9*	*1*	*3.78*	*76 %*	*28-130*	*0I16021*	*EPA 8270D*	*09/20/10 17:28*	*DFM*	
2-Fluorobiphenyl	*1.4*	*1*	*1.89*	*76 %*	*56-120*	*0I16021*	*EPA 8270D*	*09/20/10 17:28*	*DFM*	
2-Fluorophenol	*2.5*	*1*	*3.78*	*66 %*	*49-126*	*0I16021*	*EPA 8270D*	*09/20/10 17:28*	*DFM*	
Nitrobenzene-d5	*1.4*	*1*	*1.89*	*73 %*	*50-117*	*0I16021*	*EPA 8270D*	*09/20/10 17:28*	*DFM*	
Phenol-d5	*2.8*	*1*	*3.78*	*73 %*	*56-120*	*0I16021*	*EPA 8270D*	*09/20/10 17:28*	*DFM*	
Terphenyl-d14	*2.0*	*1*	*1.89*	*104 %*	*36-151*	*0I16021*	*EPA 8270D*	*09/20/10 17:28*	*DFM*	

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Description: GP-7 (25-29)
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010147-03
Sampled: 09/08/10 18:40
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147
% Solids: 88.3

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Ethane, 1,1,2,2-tetrachloro- [000079-34-5]	0.28	JB	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 17:28	DFM	B
Unknown [NA]	0.56	JB	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 17:28	DFM	B

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Description: GP-7 (25-29)
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010147-03
Sampled: 09/08/10 18:40
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147
% Solids: 88.3

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.00036	U	mg/kg dry	1	0.00036	0.0019	OI14011	EPA 8081B	09/16/10 19:53	REF	
4,4'-DDE [72-55-9] ^	0.00046	U	mg/kg dry	1	0.00046	0.0019	OI14011	EPA 8081B	09/16/10 19:53	REF	
4,4'-DDT [50-29-3] ^	0.00059	U	mg/kg dry	1	0.00059	0.0019	OI14011	EPA 8081B	09/16/10 19:53	REF	
Aldrin [309-00-2] ^	0.00041	U	mg/kg dry	1	0.00041	0.0019	OI14011	EPA 8081B	09/16/10 19:53	REF	
alpha-BHC [319-84-6] ^	0.00055	U	mg/kg dry	1	0.00055	0.0019	OI14011	EPA 8081B	09/16/10 19:53	REF	
beta-BHC [319-85-7] ^	0.00080	U	mg/kg dry	1	0.00080	0.0019	OI14011	EPA 8081B	09/16/10 19:53	REF	
Chlordane (tech) [12789-03-6] ^	0.0013	U	mg/kg dry	1	0.0013	0.037	OI14011	EPA 8081B	09/16/10 19:53	REF	
Chlordane-alpha [5103-71-9] ^	0.00052	U	mg/kg dry	1	0.00052	0.0019	OI14011	EPA 8081B	09/16/10 19:53	REF	
Chlordane-gamma [5566-34-7] ^	0.00068	U	mg/kg dry	1	0.00068	0.0019	OI14011	EPA 8081B	09/16/10 19:53	REF	
delta-BHC [319-86-8] ^	0.00034	U	mg/kg dry	1	0.00034	0.0019	OI14011	EPA 8081B	09/16/10 19:53	REF	
Dieldrin [60-57-1] ^	0.00036	U	mg/kg dry	1	0.00036	0.0019	OI14011	EPA 8081B	09/16/10 19:53	REF	
Endosulfan I [959-98-8] ^	0.00046	U	mg/kg dry	1	0.00046	0.0019	OI14011	EPA 8081B	09/16/10 19:53	REF	
Endosulfan II [33213-65-9] ^	0.00044	U	mg/kg dry	1	0.00044	0.0019	OI14011	EPA 8081B	09/16/10 19:53	REF	
Endosulfan sulfate [1031-07-8] ^	0.00054	U	mg/kg dry	1	0.00054	0.0019	OI14011	EPA 8081B	09/16/10 19:53	REF	
Endrin [72-20-8] ^	0.00044	U	mg/kg dry	1	0.00044	0.0019	OI14011	EPA 8081B	09/16/10 19:53	REF	
Endrin aldehyde [7421-93-4] ^	0.00039	U	mg/kg dry	1	0.00039	0.0019	OI14011	EPA 8081B	09/16/10 19:53	REF	
Endrin ketone [53494-70-5] ^	0.00034	U	mg/kg dry	1	0.00034	0.0019	OI14011	EPA 8081B	09/16/10 19:53	REF	
gamma-BHC [58-89-9] ^	0.00048	U	mg/kg dry	1	0.00048	0.0019	OI14011	EPA 8081B	09/16/10 19:53	REF	
Heptachlor [76-44-8] ^	0.00052	U	mg/kg dry	1	0.00052	0.0019	OI14011	EPA 8081B	09/16/10 19:53	REF	
Heptachlor epoxide [1024-57-3] ^	0.00049	U	mg/kg dry	1	0.00049	0.0019	OI14011	EPA 8081B	09/16/10 19:53	REF	
Isodrin [465-73-6] ^	0.00041	U	mg/kg dry	1	0.00041	0.0019	OI14011	EPA 8081B	09/16/10 19:53	REF	
Methoxychlor [72-43-5] ^	0.00048	U	mg/kg dry	1	0.00048	0.0019	OI14011	EPA 8081B	09/16/10 19:53	REF	
Mirex [2385-85-5] ^	0.00063	U	mg/kg dry	1	0.00063	0.0019	OI14011	EPA 8081B	09/16/10 19:53	REF	
Toxaphene [8001-35-2] ^	0.011	U	mg/kg dry	1	0.011	0.019	OI14011	EPA 8081B	09/16/10 19:53	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.051*	*1*	*0.0378*	*134 %*	*59-137*	*OI14011*	*EPA 8081B*	*09/16/10 19:53*	*REF*	
Decachlorobiphenyl	*0.041*	*1*	*0.0378*	*110 %*	*60-140*	*OI14011*	*EPA 8081B*	*09/16/10 19:53*	*REF*	

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Description: GP-7 (25-29)
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010147-03
Sampled: 09/08/10 18:40
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147
% Solids: 88.3

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.125	U	mg/kg dry	1	0.125	1.13	0I20010	EPA 6010C	09/21/10 14:39	JDH	
Arsenic [7440-38-2] ^	**1.56**		mg/kg dry	1	0.113	0.566	0I20010	EPA 6010C	09/21/10 14:39	JDH	
Beryllium [7440-41-7] ^	0.0136	U	mg/kg dry	1	0.0136	0.0566	0I20010	EPA 6010C	09/21/10 14:39	JDH	
Cadmium [7440-43-9] ^	0.0109	U	mg/kg dry	1	0.0109	0.0566	0I20010	EPA 6010C	09/21/10 14:39	JDH	
Chromium [7440-47-3] ^	**1.93**		mg/kg dry	1	0.113	0.566	0I20010	EPA 6010C	09/21/10 14:39	JDH	
Copper [7440-50-8] ^	**4.58**		mg/kg dry	1	0.215	0.566	0I20010	EPA 6010C	09/21/10 14:39	JDH	
Lead [7439-92-1] ^	**0.917**		mg/kg dry	1	0.136	0.566	0I20010	EPA 6010C	09/21/10 14:39	JDH	
Manganese [7439-96-5] ^	**0.331**	J	mg/kg dry	1	0.113	0.566	0I20010	EPA 6010C	09/21/10 14:39	JDH	
Mercury [7439-97-6] ^	0.00544	U	mg/kg dry	1	0.00544	0.0113	0I14017	EPA 7471B	09/14/10 16:29	NLH	
Nickel [7440-02-0] ^	0.408	U	mg/kg dry	1	0.408	2.83	0I20010	EPA 6010C	09/21/10 14:39	JDH	
Selenium [7782-49-2] ^	**0.904**	B	mg/kg dry	1	0.113	0.566	0I20010	EPA 6010C	09/21/10 14:39	JDH	J-01
Silver [7440-22-4] ^	0.113	U	mg/kg dry	1	0.113	0.566	0I20010	EPA 6010C	09/21/10 14:39	JDH	
Thallium [7440-28-0] ^	**0.235**	J	mg/kg dry	1	0.113	0.566	0I20010	EPA 6010C	09/21/10 14:39	JDH	
Zinc [7440-66-6] ^	1.25	U	mg/kg dry	1	1.25	2.83	0I20010	EPA 6010C	09/21/10 14:39	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: GP-3 (13-17)
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010147-04
Sampled: 09/09/10 12:30
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147
% Solids: 81.9

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	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.00019	U	mg/kg dry	1	0.00019	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.00022	U	mg/kg dry	1	0.00022	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
1,1-Dichloroethane [75-34-3] ^	0.00024	U	mg/kg dry	1	0.00024	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
1,1-Dichloroethene [75-35-4] ^	0.00029	U	mg/kg dry	1	0.00029	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
1,1-Dichloropropene [563-58-6] ^	0.00031	U	mg/kg dry	1	0.00031	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.00020	U	mg/kg dry	1	0.00020	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.00033	U	mg/kg dry	1	0.00033	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.00026	U	mg/kg dry	1	0.00026	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.00016	U	mg/kg dry	1	0.00016	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.00076	U	mg/kg dry	1	0.00076	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
1,2-Dibromoethane [106-93-4] ^	0.00044	U	mg/kg dry	1	0.00044	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.00026	U	mg/kg dry	1	0.00026	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
1,2-Dichloroethane [107-06-2] ^	0.00036	U	mg/kg dry	1	0.00036	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
1,2-Dichloropropane [78-87-5] ^	0.00025	U	mg/kg dry	1	0.00025	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.00019	U	mg/kg dry	1	0.00019	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.00021	U	mg/kg dry	1	0.00021	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
1,3-Dichloropropane [142-28-9] ^	0.00028	U	mg/kg dry	1	0.00028	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.00019	U	mg/kg dry	1	0.00019	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
2,2-Dichloropropane [594-20-7] ^	0.00022	U	mg/kg dry	1	0.00022	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
2-Butanone [78-93-3] ^	0.00075	U	mg/kg dry	1	0.00075	0.0048	0I15005	EPA 8260B	09/15/10 22:56	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.00047	U	mg/kg dry	1	0.00047	0.0048	0I15005	EPA 8260B	09/15/10 22:56	JKG	
2-Chlorotoluene [95-49-8] ^	0.00017	U	mg/kg dry	1	0.00017	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
2-Hexanone [591-78-6] ^	0.00072	U	mg/kg dry	1	0.00072	0.0048	0I15005	EPA 8260B	09/15/10 22:56	JKG	
4-Chlorotoluene [106-43-4] ^	0.00025	U	mg/kg dry	1	0.00025	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
4-Isopropyltoluene [99-87-6] ^	0.00015	U	mg/kg dry	1	0.00015	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.00055	U	mg/kg dry	1	0.00055	0.0048	0I15005	EPA 8260B	09/15/10 22:56	JKG	
Acetone [67-64-1] ^	0.0012	U	mg/kg dry	1	0.0012	0.0048	0I15005	EPA 8260B	09/15/10 22:56	JKG	
Benzene [71-43-2] ^	0.00016	U	mg/kg dry	1	0.00016	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
Bromobenzene [108-86-1] ^	0.00021	U	mg/kg dry	1	0.00021	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
Bromochloromethane [74-97-5] ^	0.00039	U	mg/kg dry	1	0.00039	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
Bromodichloromethane [75-27-4] ^	0.00023	U	mg/kg dry	1	0.00023	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
Bromoform [75-25-2] ^	0.00043	U	mg/kg dry	1	0.00043	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
Bromomethane [74-83-9] ^	0.00022	U	mg/kg dry	1	0.00022	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
Carbon disulfide [75-15-0] ^	0.00037	U	mg/kg dry	1	0.00037	0.0048	0I15005	EPA 8260B	09/15/10 22:56	JKG	
Carbon Tetrachloride [56-23-5] ^	0.00021	U	mg/kg dry	1	0.00021	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
Chlorobenzene [108-90-7] ^	0.00016	U	mg/kg dry	1	0.00016	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
Chloroethane [75-00-3] ^	0.00024	U	mg/kg dry	1	0.00024	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
Chloroform [67-66-3] ^	0.00016	U	mg/kg dry	1	0.00016	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
Chloromethane [74-87-3] ^	0.00014	U	mg/kg dry	1	0.00014	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.00022	U	mg/kg dry	1	0.00022	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.00012	U	mg/kg dry	1	0.00012	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
Dibromochloromethane [124-48-1] ^	0.00034	U	mg/kg dry	1	0.00034	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
Dibromomethane [74-95-3] ^	0.00030	U	mg/kg dry	1	0.00030	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.00043	U	mg/kg dry	1	0.00043	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
Ethylbenzene [100-41-4] ^	0.00019	U	mg/kg dry	1	0.00019	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
Hexachlorobutadiene [87-68-3] ^	0.00034	U	mg/kg dry	1	0.00034	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
Isopropylbenzene [98-82-8] ^	0.00014	U	mg/kg dry	1	0.00014	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.00035	U	mg/kg dry	1	0.00035	0.0019	0I15005	EPA 8260B	09/15/10 22:56	JKG	
Methylene Chloride [75-09-2] ^	0.00054	U	mg/kg dry	1	0.00054	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	

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Description: GP-3 (13-17)
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010147-04
Sampled: 09/09/10 12:30
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147
% Solids: 81.9

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] ^	0.00029	U	mg/kg dry	1	0.00029	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
Naphthalene [91-20-3] ^	0.00023	U	mg/kg dry	1	0.00023	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
n-Butyl Benzene [104-51-8] ^	0.00021	U	mg/kg dry	1	0.00021	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
n-Propyl Benzene [103-65-1] ^	0.00017	U	mg/kg dry	1	0.00017	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
o-Xylene [95-47-6] ^	0.00021	U	mg/kg dry	1	0.00021	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
sec-Butylbenzene [135-98-8] ^	0.00021	U	mg/kg dry	1	0.00021	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
Styrene [100-42-5] ^	0.00016	U	mg/kg dry	1	0.00016	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
tert-Butylbenzene [98-06-6] ^	0.00015	U	mg/kg dry	1	0.00015	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
Tetrachloroethene [127-18-4] ^	0.00027	U	mg/kg dry	1	0.00027	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
Toluene [108-88-3] ^	0.00019	U	mg/kg dry	1	0.00019	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.00035	U	mg/kg dry	1	0.00035	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.00037	U	mg/kg dry	1	0.00037	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
Trichloroethene [79-01-6] ^	0.00026	U	mg/kg dry	1	0.00026	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
Trichlorofluoromethane [75-69-4] ^	0.00025	U	mg/kg dry	1	0.00025	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
Vinyl chloride [75-01-4] ^	0.00023	U	mg/kg dry	1	0.00023	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	
Xylenes (Total) [1330-20-7] ^	0.00054	U	mg/kg dry	1	0.00054	0.00096	0I15005	EPA 8260B	09/15/10 22:56	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*101 %*	*61-118*	*0I15005*	*EPA 8260B*	*09/15/10 22:56*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*93 %*	*66-114*	*0I15005*	*EPA 8260B*	*09/15/10 22:56*	*JKG*	
Toluene-d8	*51*	*1*	*50.0*	*102 %*	*63-118*	*0I15005*	*EPA 8260B*	*09/15/10 22:56*	*JKG*	

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Description: GP-3 (13-17)
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010147-04
Sampled: 09/09/10 12:30
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147
% Solids: 81.9

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Carbon Dioxide [124-38-9]	**0.13**	J	mg/kg dry	1			0I15005	EPA 8260B	09/15/10 22:56	JKG	
Cyclopentasiloxane, decamet... [000541-02-6]	**0.0055**	JB	mg/kg dry	1			0I15005	EPA 8260B	09/15/10 22:56	JKG	
Cyclotetrasiloxane, octamet... [000556-67-2]	**0.012**	J	mg/kg dry	1			0I15005	EPA 8260B	09/15/10 22:56	JKG	

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Description: GP-3 (13-17) | **Lab Sample ID:** C010147-04 | **Received:** 09/10/10 17:30
Matrix: Soil | **Sampled:** 09/09/10 12:30 | **Work Order:** C010147
Project: Mary Chappell Site | **Sampled By:** Gerald Paul | **% Solids:** 81.9

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,2,4-Trichlorobenzene [120-82-1] ^	0.028	U	mg/kg dry	1	0.028	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
1,2-Dichlorobenzene [95-50-1] ^	0.039	U	mg/kg dry	1	0.039	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
1,3-Dichlorobenzene [541-73-1] ^	0.037	U	mg/kg dry	1	0.037	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
1,4-Dichlorobenzene [106-46-7] ^	0.033	U	mg/kg dry	1	0.033	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
1-Methylnaphthalene [90-12-0] ^	0.043	U	mg/kg dry	1	0.043	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	0.040	U	mg/kg dry	1	0.040	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	0.039	U	mg/kg dry	1	0.039	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
2,4-Dichlorophenol [120-83-2] ^	0.031	U	mg/kg dry	1	0.031	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
2,4-Dimethylphenol [105-67-9] ^	0.072	U	mg/kg dry	1	0.072	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
2,4-Dinitrophenol [51-28-5] ^	0.057	U	mg/kg dry	1	0.057	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
2,4-Dinitrotoluene [121-14-2] ^	0.038	U	mg/kg dry	1	0.038	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
2,6-Dinitrotoluene [606-20-2] ^	0.031	U	mg/kg dry	1	0.031	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
2-Chloronaphthalene [91-58-7] ^	0.029	U	mg/kg dry	1	0.029	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
2-Chlorophenol [95-57-8] ^	0.035	U	mg/kg dry	1	0.035	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	0.061	U	mg/kg dry	1	0.061	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
2-Methylnaphthalene [91-57-6] ^	0.045	U	mg/kg dry	1	0.045	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
2-Methylphenol [95-48-7] ^	0.046	U	mg/kg dry	1	0.046	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
2-Nitroaniline [88-74-4] ^	0.037	U	mg/kg dry	1	0.037	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
2-Nitrophenol [88-75-5] ^	0.040	U	mg/kg dry	1	0.040	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	0.031	U	mg/kg dry	1	0.031	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	0.051	U	mg/kg dry	1	0.051	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
3-Nitroaniline [99-09-2] ^	0.054	U	mg/kg dry	1	0.054	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	0.031	U	mg/kg dry	1	0.031	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	0.034	U	mg/kg dry	1	0.034	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
4-Chloroaniline [106-47-8] ^	0.037	U	mg/kg dry	1	0.037	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	0.031	U	mg/kg dry	1	0.031	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
4-Nitroaniline [100-01-6] ^	0.072	U	mg/kg dry	1	0.072	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
4-Nitrophenol [100-02-7] ^	0.051	U	mg/kg dry	1	0.051	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Acenaphthene [83-32-9] ^	0.031	U	mg/kg dry	1	0.031	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Acenaphthylene [208-96-8] ^	0.031	U	mg/kg dry	1	0.031	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Anthracene [120-12-7] ^	0.040	U	mg/kg dry	1	0.040	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Benzidine [92-87-5] ^	0.13	U	mg/kg dry	1	0.13	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	QV-01
Benzo(a)anthracene [56-55-3] ^	0.031	U	mg/kg dry	1	0.031	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Benzo(a)pyrene [50-32-8] ^	0.033	U	mg/kg dry	1	0.033	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Benzo(b)fluoranthene [205-99-2] ^	0.033	U	mg/kg dry	1	0.033	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	0.048	U	mg/kg dry	1	0.048	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Benzo(k)fluoranthene [207-08-9] ^	0.033	U	mg/kg dry	1	0.033	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Benzoic acid [65-85-0] ^	0.13	U	mg/kg dry	1	0.13	2.1	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Benzyl alcohol [100-51-6] ^	0.081	U	mg/kg dry	1	0.081	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	0.026	U	mg/kg dry	1	0.026	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	0.061	U	mg/kg dry	1	0.061	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	0.032	U	mg/kg dry	1	0.032	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	0.045	U	mg/kg dry	1	0.045	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Butylbenzylphthalate [85-68-7] ^	0.042	U	mg/kg dry	1	0.042	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	QV-02
Chrysene [218-01-9] ^	0.031	U	mg/kg dry	1	0.031	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	0.050	U	mg/kg dry	1	0.050	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Dibenzofuran [132-64-9] ^	0.031	U	mg/kg dry	1	0.031	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Diethylphthalate [84-66-2] ^	0.031	U	mg/kg dry	1	0.031	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Dimethylphthalate [131-11-3] ^	0.031	U	mg/kg dry	1	0.031	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Di-n-butylphthalate [84-74-2] ^	0.038	U	mg/kg dry	1	0.038	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Di-n-octylphthalate [117-84-0] ^	0.033	U	mg/kg dry	1	0.033	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	

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Description: GP-3 (13-17)
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010147-04
Sampled: 09/09/10 12:30
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147
% Solids: 81.9

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Fluoranthene [206-44-0] ^	0.053	U	mg/kg dry	1	0.053	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Fluorene [86-73-7] ^	0.031	U	mg/kg dry	1	0.031	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Hexachlorobenzene [118-74-1] ^	0.031	U	mg/kg dry	1	0.031	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Hexachlorobutadiene [87-68-3] ^	0.034	U	mg/kg dry	1	0.034	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	0.053	U	mg/kg dry	1	0.053	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Hexachloroethane [67-72-1] ^	0.040	U	mg/kg dry	1	0.040	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	0.046	U	mg/kg dry	1	0.046	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Isophorone [78-59-1] ^	0.020	U	mg/kg dry	1	0.020	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Naphthalene [91-20-3] ^	0.031	U	mg/kg dry	1	0.031	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Nitrobenzene [98-95-3] ^	0.031	U	mg/kg dry	1	0.031	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
N-Nitrosodimethylamine [62-75-9] ^	0.033	U	mg/kg dry	1	0.033	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	0.021	U	mg/kg dry	1	0.021	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	0.032	U	mg/kg dry	1	0.032	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Pentachlorophenol [87-86-5] ^	0.031	U	mg/kg dry	1	0.031	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Phenanthrene [85-01-8] ^	0.032	U	mg/kg dry	1	0.032	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Phenol [108-95-2] ^	0.031	U	mg/kg dry	1	0.031	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Pyrene [129-00-0] ^	0.059	U	mg/kg dry	1	0.059	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	
Pyridine [110-86-1] ^	0.15	U	mg/kg dry	1	0.15	0.40	0I16021	EPA 8270D	09/20/10 21:26	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*3.3*	*1*	*4.07*	*81 %*	*28-130*	*0I16021*	*EPA 8270D*	*09/20/10 21:26*	*DFM*	
2-Fluorobiphenyl	*1.7*	*1*	*2.04*	*83 %*	*56-120*	*0I16021*	*EPA 8270D*	*09/20/10 21:26*	*DFM*	
2-Fluorophenol	*2.9*	*1*	*4.07*	*71 %*	*49-126*	*0I16021*	*EPA 8270D*	*09/20/10 21:26*	*DFM*	
Nitrobenzene-d5	*1.6*	*1*	*2.04*	*81 %*	*50-117*	*0I16021*	*EPA 8270D*	*09/20/10 21:26*	*DFM*	
Phenol-d5	*3.2*	*1*	*4.07*	*79 %*	*56-120*	*0I16021*	*EPA 8270D*	*09/20/10 21:26*	*DFM*	
Terphenyl-d14	*2.1*	*1*	*2.04*	*104 %*	*36-151*	*0I16021*	*EPA 8270D*	*09/20/10 21:26*	*DFM*	

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Description: GP-3 (13-17)
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010147-04
Sampled: 09/09/10 12:30
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147
% Solids: 81.9

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
7-Oxabicyclo[4.1.0]heptane [000286-20-4]	**0.21**	J	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 21:26	DFM	
Ethane, 1,1,2,2-tetrachloro- [000079-34-5]	**0.43**	JB	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 21:26	DFM	B
Ethane, 1,1,2-trichloro- [000079-00-5]	**0.18**	J	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 21:26	DFM	
Unknown [NA]	**0.63**	JB	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 21:26	DFM	B

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Description: GP-3 (13-17)
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010147-04
Sampled: 09/09/10 12:30
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147
% Solids: 81.9

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.00039	U	mg/kg dry	1	0.00039	0.0021	OI14011	EPA 8081B	09/16/10 20:06	REF	
4,4'-DDE [72-55-9] ^	0.00050	U	mg/kg dry	1	0.00050	0.0021	OI14011	EPA 8081B	09/16/10 20:06	REF	
4,4'-DDT [50-29-3] ^	0.00064	U	mg/kg dry	1	0.00064	0.0021	OI14011	EPA 8081B	09/16/10 20:06	REF	
Aldrin [309-00-2] ^	0.00044	U	mg/kg dry	1	0.00044	0.0021	OI14011	EPA 8081B	09/16/10 20:06	REF	
alpha-BHC [319-84-6] ^	0.00060	U	mg/kg dry	1	0.00060	0.0021	OI14011	EPA 8081B	09/16/10 20:06	REF	
beta-BHC [319-85-7] ^	0.00087	U	mg/kg dry	1	0.00087	0.0021	OI14011	EPA 8081B	09/16/10 20:06	REF	
Chlordane (tech) [12789-03-6] ^	0.0014	U	mg/kg dry	1	0.0014	0.040	OI14011	EPA 8081B	09/16/10 20:06	REF	
Chlordane-alpha [5103-71-9] ^	0.00056	U	mg/kg dry	1	0.00056	0.0021	OI14011	EPA 8081B	09/16/10 20:06	REF	
Chlordane-gamma [5566-34-7] ^	0.00073	U	mg/kg dry	1	0.00073	0.0021	OI14011	EPA 8081B	09/16/10 20:06	REF	
delta-BHC [319-86-8] ^	0.00037	U	mg/kg dry	1	0.00037	0.0021	OI14011	EPA 8081B	09/16/10 20:06	REF	
Dieldrin [60-57-1] ^	0.00039	U	mg/kg dry	1	0.00039	0.0021	OI14011	EPA 8081B	09/16/10 20:06	REF	
Endosulfan I [959-98-8] ^	0.00050	U	mg/kg dry	1	0.00050	0.0021	OI14011	EPA 8081B	09/16/10 20:06	REF	
Endosulfan II [33213-65-9] ^	0.00048	U	mg/kg dry	1	0.00048	0.0021	OI14011	EPA 8081B	09/16/10 20:06	REF	
Endosulfan sulfate [1031-07-8] ^	0.00059	U	mg/kg dry	1	0.00059	0.0021	OI14011	EPA 8081B	09/16/10 20:06	REF	
Endrin [72-20-8] ^	0.00048	U	mg/kg dry	1	0.00048	0.0021	OI14011	EPA 8081B	09/16/10 20:06	REF	
Endrin aldehyde [7421-93-4] ^	0.00042	U	mg/kg dry	1	0.00042	0.0021	OI14011	EPA 8081B	09/16/10 20:06	REF	
Endrin ketone [53494-70-5] ^	0.00037	U	mg/kg dry	1	0.00037	0.0021	OI14011	EPA 8081B	09/16/10 20:06	REF	
gamma-BHC [58-89-9] ^	0.00051	U	mg/kg dry	1	0.00051	0.0021	OI14011	EPA 8081B	09/16/10 20:06	REF	
Heptachlor [76-44-8] ^	0.00056	U	mg/kg dry	1	0.00056	0.0021	OI14011	EPA 8081B	09/16/10 20:06	REF	
Heptachlor epoxide [1024-57-3] ^	0.00053	U	mg/kg dry	1	0.00053	0.0021	OI14011	EPA 8081B	09/16/10 20:06	REF	
Isodrin [465-73-6] ^	0.00044	U	mg/kg dry	1	0.00044	0.0021	OI14011	EPA 8081B	09/16/10 20:06	REF	
Methoxychlor [72-43-5] ^	0.00051	U	mg/kg dry	1	0.00051	0.0021	OI14011	EPA 8081B	09/16/10 20:06	REF	
Mirex [2385-85-5] ^	0.00068	U	mg/kg dry	1	0.00068	0.0021	OI14011	EPA 8081B	09/16/10 20:06	REF	
Toxaphene [8001-35-2] ^	0.012	U	mg/kg dry	1	0.012	0.021	OI14011	EPA 8081B	09/16/10 20:06	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.061*	*1*	*0.0407*	*151 %*	*59-137*	*OI14011*	*EPA 8081B*	*09/16/10 20:06*	*REF*	*QS-03*
Decachlorobiphenyl	*0.050*	*1*	*0.0407*	*124 %*	*60-140*	*OI14011*	*EPA 8081B*	*09/16/10 20:06*	*REF*	

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Description: GP-3 (13-17)
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010147-04
Sampled: 09/09/10 12:30
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147
% Solids: 81.9

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.134	U	mg/kg dry	1	0.134	1.22	0I20010	EPA 6010C	09/21/10 14:42	JDH	
Arsenic [7440-38-2] ^	**4.04**		mg/kg dry	1	0.122	0.611	0I20010	EPA 6010C	09/21/10 14:42	JDH	
Beryllium [7440-41-7] ^	0.0147	U	mg/kg dry	1	0.0147	0.0611	0I20010	EPA 6010C	09/21/10 14:42	JDH	
Cadmium [7440-43-9] ^	0.0117	U	mg/kg dry	1	0.0117	0.0611	0I20010	EPA 6010C	09/21/10 14:42	JDH	
Chromium [7440-47-3] ^	**7.44**		mg/kg dry	1	0.122	0.611	0I20010	EPA 6010C	09/21/10 14:42	JDH	
Copper [7440-50-8] ^	**5.78**		mg/kg dry	1	0.232	0.611	0I20010	EPA 6010C	09/21/10 14:42	JDH	
Lead [7439-92-1] ^	**1.50**		mg/kg dry	1	0.147	0.611	0I20010	EPA 6010C	09/21/10 14:42	JDH	
Manganese [7439-96-5] ^	**3.38**		mg/kg dry	1	0.122	0.611	0I20010	EPA 6010C	09/21/10 14:42	JDH	
Mercury [7439-97-6] ^	**0.0242**		mg/kg dry	1	0.00586	0.0122	0I14017	EPA 7471B	09/14/10 16:32	NLH	
Nickel [7440-02-0] ^	0.440	U	mg/kg dry	1	0.440	3.05	0I20010	EPA 6010C	09/21/10 14:42	JDH	
Selenium [7782-49-2] ^	**1.12**	B	mg/kg dry	1	0.122	0.611	0I20010	EPA 6010C	09/21/10 14:42	JDH	QB-01
Silver [7440-22-4] ^	0.122	U	mg/kg dry	1	0.122	0.611	0I20010	EPA 6010C	09/21/10 14:42	JDH	
Thallium [7440-28-0] ^	**0.541**	J	mg/kg dry	1	0.122	0.611	0I20010	EPA 6010C	09/21/10 14:42	JDH	
Zinc [7440-66-6] ^	**2.11**	J	mg/kg dry	1	1.34	3.05	0I20010	EPA 6010C	09/21/10 14:42	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: Dup
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010147-05
Sampled: 09/08/10 00:00
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147
% Solids: 93.3

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	0I15005	EPA 8260B	09/15/10 23:25	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.00021	U	mg/kg dry	1	0.00021	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
1,1-Dichloroethane [75-34-3] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
1,1-Dichloroethene [75-35-4] ^	0.00032	U	mg/kg dry	1	0.00032	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
1,1-Dichloropropene [563-58-6] ^	0.00034	U	mg/kg dry	1	0.00034	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.00023	U	mg/kg dry	1	0.00023	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.00036	U	mg/kg dry	1	0.00036	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.00085	U	mg/kg dry	1	0.00085	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
1,2-Dibromoethane [106-93-4] ^	0.00049	U	mg/kg dry	1	0.00049	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
1,2-Dichloroethane [107-06-2] ^	0.00041	U	mg/kg dry	1	0.00041	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
1,2-Dichloropropane [78-87-5] ^	0.00028	U	mg/kg dry	1	0.00028	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.00021	U	mg/kg dry	1	0.00021	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
1,3-Dichloropropane [142-28-9] ^	0.00031	U	mg/kg dry	1	0.00031	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.00021	U	mg/kg dry	1	0.00021	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
2,2-Dichloropropane [594-20-7] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
2-Butanone [78-93-3] ^	0.00084	U	mg/kg dry	1	0.00084	0.0054	0I15005	EPA 8260B	09/15/10 23:25	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.00053	U	mg/kg dry	1	0.00053	0.0054	0I15005	EPA 8260B	09/15/10 23:25	JKG	
2-Chlorotoluene [95-49-8] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
2-Hexanone [591-78-6] ^	0.00080	U	mg/kg dry	1	0.00080	0.0054	0I15005	EPA 8260B	09/15/10 23:25	JKG	
4-Chlorotoluene [106-43-4] ^	0.00028	U	mg/kg dry	1	0.00028	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
4-Isopropyltoluene [99-87-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.00061	U	mg/kg dry	1	0.00061	0.0054	0I15005	EPA 8260B	09/15/10 23:25	JKG	
Acetone [67-64-1] ^	0.0013	U	mg/kg dry	1	0.0013	0.0054	0I15005	EPA 8260B	09/15/10 23:25	JKG	
Benzene [71-43-2] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
Bromobenzene [108-86-1] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
Bromochloromethane [74-97-5] ^	0.00044	U	mg/kg dry	1	0.00044	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
Bromodichloromethane [75-27-4] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
Bromoform [75-25-2] ^	0.00048	U	mg/kg dry	1	0.00048	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
Bromomethane [74-83-9] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
Carbon disulfide [75-15-0] ^	0.00042	U	mg/kg dry	1	0.00042	0.0054	0I15005	EPA 8260B	09/15/10 23:25	JKG	
Carbon Tetrachloride [56-23-5] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
Chlorobenzene [108-90-7] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
Chloroethane [75-00-3] ^	0.00027	U	mg/kg dry	1	0.00027	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
Chloroform [67-66-3] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
Chloromethane [74-87-3] ^	0.00016	U	mg/kg dry	1	0.00016	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.00025	U	mg/kg dry	1	0.00025	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.00014	U	mg/kg dry	1	0.00014	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
Dibromochloromethane [124-48-1] ^	0.00038	U	mg/kg dry	1	0.00038	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
Dibromomethane [74-95-3] ^	0.00033	U	mg/kg dry	1	0.00033	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.00048	U	mg/kg dry	1	0.00048	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
Ethylbenzene [100-41-4] ^	0.00021	U	mg/kg dry	1	0.00021	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
Hexachlorobutadiene [87-68-3] ^	0.00038	U	mg/kg dry	1	0.00038	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
Isopropylbenzene [98-82-8] ^	0.00016	U	mg/kg dry	1	0.00016	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.00040	U	mg/kg dry	1	0.00040	0.0021	0I15005	EPA 8260B	09/15/10 23:25	JKG	
Methylene Chloride [75-09-2] ^	0.00060	U	mg/kg dry	1	0.00060	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	

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Description: Dup
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Project: Mary Chappell Site

Lab Sample ID: C010147-05
Sampled: 09/08/10 00:00
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147
% Solids: 93.3

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] ^	0.00032	U	mg/kg dry	1	0.00032	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
Naphthalene [91-20-3] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
n-Butyl Benzene [104-51-8] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
n-Propyl Benzene [103-65-1] ^	0.00019	U	mg/kg dry	1	0.00019	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
o-Xylene [95-47-6] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
sec-Butylbenzene [135-98-8] ^	0.00024	U	mg/kg dry	1	0.00024	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
Styrene [100-42-5] ^	0.00018	U	mg/kg dry	1	0.00018	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
tert-Butylbenzene [98-06-6] ^	0.00017	U	mg/kg dry	1	0.00017	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
Tetrachloroethene [127-18-4] ^	0.00030	U	mg/kg dry	1	0.00030	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
Toluene [108-88-3] ^	0.00021	U	mg/kg dry	1	0.00021	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.00040	U	mg/kg dry	1	0.00040	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.00042	U	mg/kg dry	1	0.00042	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
Trichloroethene [79-01-6] ^	0.00029	U	mg/kg dry	1	0.00029	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
Trichlorofluoromethane [75-69-4] ^	0.00028	U	mg/kg dry	1	0.00028	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
Vinyl chloride [75-01-4] ^	0.00026	U	mg/kg dry	1	0.00026	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	
Xylenes (Total) [1330-20-7] ^	0.00060	U	mg/kg dry	1	0.00060	0.0011	0I15005	EPA 8260B	09/15/10 23:25	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*103 %*	*61-118*	*0I15005*	*EPA 8260B*	*09/15/10 23:25*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*93 %*	*66-114*	*0I15005*	*EPA 8260B*	*09/15/10 23:25*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*63-118*	*0I15005*	*EPA 8260B*	*09/15/10 23:25*	*JKG*	

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Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Carbon Dioxide [124-38-9]	**0.26**	J	mg/kg dry	1			0I15005	EPA 8260B	09/15/10 23:25	JKG	
Cyclopentasiloxane, decamet... [000541-02-6]	**0.0077**	JB	mg/kg dry	1			0I15005	EPA 8260B	09/15/10 23:25	JKG	
Cyclotetrasiloxane, octamet... [000556-67-2]	**0.025**	J	mg/kg dry	1			0I15005	EPA 8260B	09/15/10 23:25	JKG	

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Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,2,4-Trichlorobenzene [120-82-1] ^	0.025	U	mg/kg dry	1	0.025	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
1,2-Dichlorobenzene [95-50-1] ^	0.034	U	mg/kg dry	1	0.034	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
1,3-Dichlorobenzene [541-73-1] ^	0.032	U	mg/kg dry	1	0.032	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
1,4-Dichlorobenzene [106-46-7] ^	0.029	U	mg/kg dry	1	0.029	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
1-Methylnaphthalene [90-12-0] ^	0.038	U	mg/kg dry	1	0.038	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	0.035	U	mg/kg dry	1	0.035	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	0.034	U	mg/kg dry	1	0.034	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
2,4-Dichlorophenol [120-83-2] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
2,4-Dimethylphenol [105-67-9] ^	0.063	U	mg/kg dry	1	0.063	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
2,4-Dinitrophenol [51-28-5] ^	0.050	U	mg/kg dry	1	0.050	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
2,4-Dinitrotoluene [121-14-2] ^	0.033	U	mg/kg dry	1	0.033	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
2,6-Dinitrotoluene [606-20-2] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
2-Chloronaphthalene [91-58-7] ^	0.026	U	mg/kg dry	1	0.026	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
2-Chlorophenol [95-57-8] ^	0.031	U	mg/kg dry	1	0.031	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	0.054	U	mg/kg dry	1	0.054	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
2-Methylnaphthalene [91-57-6] ^	0.040	U	mg/kg dry	1	0.040	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
2-Methylphenol [95-48-7] ^	0.041	U	mg/kg dry	1	0.041	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
2-Nitroaniline [88-74-4] ^	0.032	U	mg/kg dry	1	0.032	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
2-Nitrophenol [88-75-5] ^	0.035	U	mg/kg dry	1	0.035	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	0.045	U	mg/kg dry	1	0.045	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
3-Nitroaniline [99-09-2] ^	0.047	U	mg/kg dry	1	0.047	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	0.030	U	mg/kg dry	1	0.030	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
4-Chloroaniline [106-47-8] ^	0.032	U	mg/kg dry	1	0.032	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
4-Nitroaniline [100-01-6] ^	0.063	U	mg/kg dry	1	0.063	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
4-Nitrophenol [100-02-7] ^	0.045	U	mg/kg dry	1	0.045	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Acenaphthene [83-32-9] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Acenaphthylene [208-96-8] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Anthracene [120-12-7] ^	0.035	U	mg/kg dry	1	0.035	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Benzidine [92-87-5] ^	0.12	U	mg/kg dry	1	0.12	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	QV-01
Benzo(a)anthracene [56-55-3] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Benzo(a)pyrene [50-32-8] ^	0.029	U	mg/kg dry	1	0.029	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Benzo(b)fluoranthene [205-99-2] ^	0.029	U	mg/kg dry	1	0.029	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	0.042	U	mg/kg dry	1	0.042	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Benzo(k)fluoranthene [207-08-9] ^	0.029	U	mg/kg dry	1	0.029	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Benzoic acid [65-85-0] ^	0.12	U	mg/kg dry	1	0.12	1.8	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Benzyl alcohol [100-51-6] ^	0.071	U	mg/kg dry	1	0.071	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	0.023	U	mg/kg dry	1	0.023	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	0.054	U	mg/kg dry	1	0.054	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	0.028	U	mg/kg dry	1	0.028	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	0.040	U	mg/kg dry	1	0.040	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Butylbenzylphthalate [85-68-7] ^	0.036	U	mg/kg dry	1	0.036	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	QV-02
Chrysene [218-01-9] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	0.044	U	mg/kg dry	1	0.044	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Dibenzofuran [132-64-9] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Diethylphthalate [84-66-2] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Dimethylphthalate [131-11-3] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Di-n-butylphthalate [84-74-2] ^	0.033	U	mg/kg dry	1	0.033	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Di-n-octylphthalate [117-84-0] ^	0.029	U	mg/kg dry	1	0.029	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	

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Semivolatile Organic Compounds by GCMS

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Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Fluoranthene [206-44-0] ^	0.046	U	mg/kg dry	1	0.046	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Fluorene [86-73-7] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Hexachlorobenzene [118-74-1] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Hexachlorobutadiene [87-68-3] ^	0.030	U	mg/kg dry	1	0.030	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	0.046	U	mg/kg dry	1	0.046	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Hexachloroethane [67-72-1] ^	0.035	U	mg/kg dry	1	0.035	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	0.041	U	mg/kg dry	1	0.041	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Isophorone [78-59-1] ^	0.017	U	mg/kg dry	1	0.017	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Naphthalene [91-20-3] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Nitrobenzene [98-95-3] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
N-Nitrosodimethylamine [62-75-9] ^	0.029	U	mg/kg dry	1	0.029	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	0.018	U	mg/kg dry	1	0.018	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	0.028	U	mg/kg dry	1	0.028	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Pentachlorophenol [87-86-5] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Phenanthrene [85-01-8] ^	0.028	U	mg/kg dry	1	0.028	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Phenol [108-95-2] ^	0.027	U	mg/kg dry	1	0.027	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Pyrene [129-00-0] ^	0.051	U	mg/kg dry	1	0.051	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	
Pyridine [110-86-1] ^	0.13	U	mg/kg dry	1	0.13	0.35	0I16021	EPA 8270D	09/20/10 21:55	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*2.9*	*1*	*3.57*	*82 %*	*28-130*	*0I16021*	*EPA 8270D*	*09/20/10 21:55*	*DFM*	
2-Fluorobiphenyl	*1.5*	*1*	*1.79*	*83 %*	*56-120*	*0I16021*	*EPA 8270D*	*09/20/10 21:55*	*DFM*	
2-Fluorophenol	*2.5*	*1*	*3.57*	*70 %*	*49-126*	*0I16021*	*EPA 8270D*	*09/20/10 21:55*	*DFM*	
Nitrobenzene-d5	*1.5*	*1*	*1.79*	*82 %*	*50-117*	*0I16021*	*EPA 8270D*	*09/20/10 21:55*	*DFM*	
Phenol-d5	*2.8*	*1*	*3.57*	*79 %*	*56-120*	*0I16021*	*EPA 8270D*	*09/20/10 21:55*	*DFM*	
Terphenyl-d14	*1.8*	*1*	*1.79*	*101 %*	*36-151*	*0I16021*	*EPA 8270D*	*09/20/10 21:55*	*DFM*	

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Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
7-Oxabicyclo[4.1.0]heptane [000286-20-4]	**0.20**	J	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 21:55	DFM	
Ethane, 1,1,2,2-tetrachloro- [000079-34-5]	**0.41**	JB	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 21:55	DFM	B
Ethane, 1,1,2-trichloro- [000079-00-5]	**0.18**	J	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 21:55	DFM	
Unknown [NA]	**0.55**	JB	mg/kg dry	1			0I16021	EPA 8270D	09/20/10 21:55	DFM	B

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% Solids: 93.3

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.00034	U	mg/kg dry	1	0.00034	0.0018	OI14011	EPA 8081B	09/16/10 20:20	REF	
4,4'-DDE [72-55-9] ^	0.00044	U	mg/kg dry	1	0.00044	0.0018	OI14011	EPA 8081B	09/16/10 20:20	REF	
4,4'-DDT [50-29-3] ^	0.00056	U	mg/kg dry	1	0.00056	0.0018	OI14011	EPA 8081B	09/16/10 20:20	REF	
Aldrin [309-00-2] ^	0.00039	U	mg/kg dry	1	0.00039	0.0018	OI14011	EPA 8081B	09/16/10 20:20	REF	
alpha-BHC [319-84-6] ^	0.00053	U	mg/kg dry	1	0.00053	0.0018	OI14011	EPA 8081B	09/16/10 20:20	REF	
beta-BHC [319-85-7] ^	0.00076	U	mg/kg dry	1	0.00076	0.0018	OI14011	EPA 8081B	09/16/10 20:20	REF	
Chlordane (tech) [12789-03-6] ^	0.0012	U	mg/kg dry	1	0.0012	0.035	OI14011	EPA 8081B	09/16/10 20:20	REF	
Chlordane-alpha [5103-71-9] ^	0.00049	U	mg/kg dry	1	0.00049	0.0018	OI14011	EPA 8081B	09/16/10 20:20	REF	
Chlordane-gamma [5566-34-7] ^	0.00064	U	mg/kg dry	1	0.00064	0.0018	OI14011	EPA 8081B	09/16/10 20:20	REF	
delta-BHC [319-86-8] ^	0.00032	U	mg/kg dry	1	0.00032	0.0018	OI14011	EPA 8081B	09/16/10 20:20	REF	
Dieldrin [60-57-1] ^	0.00034	U	mg/kg dry	1	0.00034	0.0018	OI14011	EPA 8081B	09/16/10 20:20	REF	
Endosulfan I [959-98-8] ^	0.00044	U	mg/kg dry	1	0.00044	0.0018	OI14011	EPA 8081B	09/16/10 20:20	REF	
Endosulfan II [33213-65-9] ^	0.00042	U	mg/kg dry	1	0.00042	0.0018	OI14011	EPA 8081B	09/16/10 20:20	REF	
Endosulfan sulfate [1031-07-8] ^	0.00051	U	mg/kg dry	1	0.00051	0.0018	OI14011	EPA 8081B	09/16/10 20:20	REF	
Endrin [72-20-8] ^	0.00042	U	mg/kg dry	1	0.00042	0.0018	OI14011	EPA 8081B	09/16/10 20:20	REF	
Endrin aldehyde [7421-93-4] ^	0.00036	U	mg/kg dry	1	0.00036	0.0018	OI14011	EPA 8081B	09/16/10 20:20	REF	
Endrin ketone [53494-70-5] ^	0.00032	U	mg/kg dry	1	0.00032	0.0018	OI14011	EPA 8081B	09/16/10 20:20	REF	
gamma-BHC [58-89-9] ^	0.00045	U	mg/kg dry	1	0.00045	0.0018	OI14011	EPA 8081B	09/16/10 20:20	REF	
Heptachlor [76-44-8] ^	0.00049	U	mg/kg dry	1	0.00049	0.0018	OI14011	EPA 8081B	09/16/10 20:20	REF	
Heptachlor epoxide [1024-57-3] ^	0.00046	U	mg/kg dry	1	0.00046	0.0018	OI14011	EPA 8081B	09/16/10 20:20	REF	
Isodrin [465-73-6] ^	0.00039	U	mg/kg dry	1	0.00039	0.0018	OI14011	EPA 8081B	09/16/10 20:20	REF	
Methoxychlor [72-43-5] ^	0.00045	U	mg/kg dry	1	0.00045	0.0018	OI14011	EPA 8081B	09/16/10 20:20	REF	
Mirex [2385-85-5] ^	0.00060	U	mg/kg dry	1	0.00060	0.0018	OI14011	EPA 8081B	09/16/10 20:20	REF	
Toxaphene [8001-35-2] ^	0.011	U	mg/kg dry	1	0.011	0.018	OI14011	EPA 8081B	09/16/10 20:20	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.047*	*1*	*0.0357*	*131 %*	*59-137*	*OI14011*	*EPA 8081B*	*09/16/10 20:20*	*REF*	
Decachlorobiphenyl	*0.038*	*1*	*0.0357*	*107 %*	*60-140*	*OI14011*	*EPA 8081B*	*09/16/10 20:20*	*REF*	

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Description: Dup
Matrix: Soil
Project: Mary Chappell Site

Lab Sample ID: C010147-05
Sampled: 09/08/10 00:00
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147
% Solids: 93.3

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.118	U	mg/kg dry	1	0.118	1.07	0I20010	EPA 6010C	09/21/10 14:54	JDH	
Arsenic [7440-38-2] ^	**0.418**	J	mg/kg dry	1	0.107	0.536	0I20010	EPA 6010C	09/21/10 14:54	JDH	
Beryllium [7440-41-7] ^	0.0129	U	mg/kg dry	1	0.0129	0.0536	0I20010	EPA 6010C	09/21/10 14:54	JDH	
Cadmium [7440-43-9] ^	0.0103	U	mg/kg dry	1	0.0103	0.0536	0I20010	EPA 6010C	09/21/10 14:54	JDH	
Chromium [7440-47-3] ^	**0.939**		mg/kg dry	1	0.107	0.536	0I20010	EPA 6010C	09/21/10 14:54	JDH	
Copper [7440-50-8] ^	**0.598**		mg/kg dry	1	0.204	0.536	0I20010	EPA 6010C	09/21/10 14:54	JDH	
Lead [7439-92-1] ^	**0.438**	J	mg/kg dry	1	0.129	0.536	0I20010	EPA 6010C	09/21/10 14:54	JDH	
Manganese [7439-96-5] ^	**0.312**	J	mg/kg dry	1	0.107	0.536	0I20010	EPA 6010C	09/21/10 14:54	JDH	
Mercury [7439-97-6] ^	0.00515	U	mg/kg dry	1	0.00515	0.0107	0I14017	EPA 7471B	09/14/10 16:41	NLH	
Nickel [7440-02-0] ^	0.386	U	mg/kg dry	1	0.386	2.68	0I20010	EPA 6010C	09/21/10 14:54	JDH	
Selenium [7782-49-2] ^	**0.309**	JB	mg/kg dry	1	0.107	0.536	0I20010	EPA 6010C	09/21/10 14:54	JDH	J-01
Silver [7440-22-4] ^	0.107	U	mg/kg dry	1	0.107	0.536	0I20010	EPA 6010C	09/21/10 14:54	JDH	
Thallium [7440-28-0] ^	**0.132**	J	mg/kg dry	1	0.107	0.536	0I20010	EPA 6010C	09/21/10 14:54	JDH	
Zinc [7440-66-6] ^	**1.38**	J	mg/kg dry	1	1.18	2.68	0I20010	EPA 6010C	09/21/10 14:54	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: Equipment Blank
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C010147-06
Sampled: 09/09/10 18:00
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147

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 15:57	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	0I14012	EPA 8260B	09/14/10 15:57	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 15:57	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
1,1-Dichloropropene [563-58-6] ^	0.32	U	ug/L	1	0.32	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.25	U	ug/L	1	0.25	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.36	U	ug/L	1	0.36	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 15:57	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 15:57	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.25	U	ug/L	1	0.25	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.30	U	ug/L	1	0.30	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
1,3-Dichloropropane [142-28-9] ^	0.32	U	ug/L	1	0.32	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
2,2-Dichloropropane [594-20-7] ^	0.55	U	ug/L	1	0.55	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	0.94	U	ug/L	1	0.94	5.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
2-Chlorotoluene [95-49-8] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
4-Chlorotoluene [106-43-4] ^	0.25	U	ug/L	1	0.25	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
4-Isopropyltoluene [99-87-6] ^	0.26	U	ug/L	1	0.26	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
Bromobenzene [108-86-1] ^	0.28	U	ug/L	1	0.28	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
Hexachlorobutadiene [87-68-3] ^	0.35	U	ug/L	1	0.35	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
Isopropylbenzene [98-82-8] ^	0.24	U	ug/L	1	0.24	1.0	0I14012	EPA 8260B	09/14/10 15:57	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 15:57	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	

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Description: Equipment Blank
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C010147-06
Sampled: 09/09/10 18:00
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147

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 15:57	JKG	
Naphthalene [91-20-3] ^	0.39	U	ug/L	1	0.39	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
n-Butyl Benzene [104-51-8] ^	0.20	U	ug/L	1	0.20	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
n-Propyl Benzene [103-65-1] ^	0.30	U	ug/L	1	0.30	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
o-Xylene [95-47-6] ^	0.27	U	ug/L	1	0.27	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
sec-Butylbenzene [135-98-8] ^	0.24	U	ug/L	1	0.24	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
tert-Butylbenzene [98-06-6] ^	0.28	U	ug/L	1	0.28	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	0I14012	EPA 8260B	09/14/10 15:57	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	0I14012	EPA 8260B	09/14/10 15:57	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 15:57*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*86 %*	*68-117*	*0I14012*	*EPA 8260B*	*09/14/10 15:57*	*JKG*	
Toluene-d8	*44*	*1*	*50.0*	*88 %*	*69-110*	*0I14012*	*EPA 8260B*	*09/14/10 15:57*	*JKG*	

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Description: Equipment Blank
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C010147-06
Sampled: 09/09/10 18:00
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Carbon Dioxide [124-38-9]	**110**	J	ug/L	1			0I14012	EPA 8260B	09/14/10 15:57	JKG	

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Description: Equipment Blank
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C010147-06
Sampled: 09/09/10 18:00
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,2,4-Trichlorobenzene [120-82-1] ^	1.2	U	ug/L	1	1.2	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
1,2-Dichlorobenzene [95-50-1] ^	1.1	U	ug/L	1	1.1	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
1,3-Dichlorobenzene [541-73-1] ^	1.1	U	ug/L	1	1.1	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
1,4-Dichlorobenzene [106-46-7] ^	1.0	U	ug/L	1	1.0	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
1-Methylnaphthalene [90-12-0] ^	1.7	U	ug/L	1	1.7	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Benzidine [92-87-5] ^	1.6	U	ug/L	1	1.6	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Benzoic acid [65-85-0] ^	1.0	U	ug/L	1	1.0	50	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	

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Description: Equipment Blank
Matrix: Ground Water
Project: Mary Chappell Site

Lab Sample ID: C010147-06
Sampled: 09/09/10 18:00
Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Naphthalene [91-20-3] ^	1.3	U	ug/L	1	1.3	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Pentachlorophenol [87-86-5] ^	1.8	U	ug/L	1	1.8	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	
Pyridine [110-86-1] ^	1.3	U	ug/L	1	1.3	10	0I14023	EPA 8270D	09/23/10 02:54	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*72*	*1*	*100*	*72 %*	*10-179*	*0I14023*	*EPA 8270D*	*09/23/10 02:54*	*DFM*	
2-Fluorobiphenyl	*35*	*1*	*50.0*	*71 %*	*10-149*	*0I14023*	*EPA 8270D*	*09/23/10 02:54*	*DFM*	
2-Fluorophenol	*46*	*1*	*100*	*46 %*	*10-110*	*0I14023*	*EPA 8270D*	*09/23/10 02:54*	*DFM*	
Nitrobenzene-d5	*34*	*1*	*50.0*	*68 %*	*10-149*	*0I14023*	*EPA 8270D*	*09/23/10 02:54*	*DFM*	
Phenol-d5	*40*	*1*	*100*	*40 %*	*10-88*	*0I14023*	*EPA 8270D*	*09/23/10 02:54*	*DFM*	
Terphenyl-d14	*42*	*1*	*50.0*	*84 %*	*10-188*	*0I14023*	*EPA 8270D*	*09/23/10 02:54*	*DFM*	

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Lab Sample ID: C010147-06
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Sampled By: Gerald Paul

Received: 09/10/10 17:30
Work Order: C010147

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Unknown (01) [NA]	**9.7**	JB	ug/L	1			0I14023	EPA 8270D	09/23/10 02:54	DFM	B
Unknown (02) [NA]	**11**	JB	ug/L	1			0I14023	EPA 8270D	09/23/10 02:54	DFM	B

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Lab Sample ID: C010147-06
Sampled: 09/09/10 18:00
Sampled By: Gerald Paul

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Work Order: C010147

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0I14004	EPA 8081B	09/22/10 00:46	DFM	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0I14004	EPA 8081B	09/22/10 00:46	DFM	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0I14004	EPA 8081B	09/22/10 00:46	DFM	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0I14004	EPA 8081B	09/22/10 00:46	DFM	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0I14004	EPA 8081B	09/22/10 00:46	DFM	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0I14004	EPA 8081B	09/22/10 00:46	DFM	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0I14004	EPA 8081B	09/22/10 00:46	DFM	
Chlordane-alpha [5103-71-9] ^	0.014	U	ug/L	1	0.014	0.050	0I14004	EPA 8081B	09/22/10 00:46	DFM	
Chlordane-gamma [5566-34-7] ^	0.012	U	ug/L	1	0.012	0.050	0I14004	EPA 8081B	09/22/10 00:46	DFM	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0I14004	EPA 8081B	09/22/10 00:46	DFM	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0I14004	EPA 8081B	09/22/10 00:46	DFM	
Endosulfan I [959-98-8] ^	0.016	U	ug/L	1	0.016	0.050	0I14004	EPA 8081B	09/22/10 00:46	DFM	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0I14004	EPA 8081B	09/22/10 00:46	DFM	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0I14004	EPA 8081B	09/22/10 00:46	DFM	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0I14004	EPA 8081B	09/22/10 00:46	DFM	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0I14004	EPA 8081B	09/22/10 00:46	DFM	
Endrin ketone [53494-70-5] ^	0.012	U	ug/L	1	0.012	0.050	0I14004	EPA 8081B	09/22/10 00:46	DFM	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0I14004	EPA 8081B	09/22/10 00:46	DFM	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0I14004	EPA 8081B	09/22/10 00:46	DFM	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0I14004	EPA 8081B	09/22/10 00:46	DFM	
Isodrin [465-73-6] ^	0.013	U	ug/L	1	0.013	0.050	0I14004	EPA 8081B	09/22/10 00:46	DFM	
Methoxychlor [72-43-5] ^	0.016	U	ug/L	1	0.016	0.050	0I14004	EPA 8081B	09/22/10 00:46	DFM	
Mirex [2385-85-5] ^	0.016	U	ug/L	1	0.016	0.050	0I14004	EPA 8081B	09/22/10 00:46	DFM	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	0I14004	EPA 8081B	09/22/10 00:46	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.97*	*1*	*1.00*	*97 %*	*44-134*	*0I14004*	*EPA 8081B*	*09/22/10 00:46*	*DFM*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*106 %*	*37-149*	*0I14004*	*EPA 8081B*	*09/22/10 00:46*	*DFM*	

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Lab Sample ID: C010147-06
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Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0I15010	EPA 7470A	09/15/10 17:08	NLH	

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Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	0I14027	EPA 6020A	09/22/10 16:10	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	0I13014	EPA 6010C	09/14/10 12:45	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	0I13014	EPA 6010C	09/14/10 12:45	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	0I13014	EPA 6010C	09/14/10 12:45	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	0I13014	EPA 6010C	09/14/10 12:45	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	0I13014	EPA 6010C	09/14/10 12:45	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	0I13014	EPA 6010C	09/14/10 12:45	JDH	
Manganese [7439-96-5] ^	**4.07**	JB	ug/L	1	1.10	10.0	0I13014	EPA 6010C	09/14/10 12:45	JDH	J-01
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	0I13014	EPA 6010C	09/14/10 12:45	JDH	
Selenium [7782-49-2] ^	**4.64**	J	ug/L	1	2.70	10.0	0I13014	EPA 6010C	09/14/10 12:45	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	0I13014	EPA 6010C	09/14/10 12:45	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	0I14027	EPA 6020A	09/22/10 16:10	VLO	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	0I13014	EPA 6010C	09/14/10 12:45	JDH	

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	*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 0I15005 - EPA 5035_MS

Blank (0I15005-BLK1) Prepared: 09/15/2010 08:26 Analyzed: 09/15/2010 14:19

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 0I15005 - EPA 5035_MS

Blank (0I15005-BLK1) Continued Prepared: 09/15/2010 08:26 Analyzed: 09/15/2010 14:19

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	*52*			*ug/L*	*50.0*		*104*	*61-118*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*101*	*66-114*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*101*	*63-118*			

LCS (0I15005-BS1) Prepared: 09/15/2010 08:26 Analyzed: 09/15/2010 14:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0		108	64-133			
Benzene	19		1.0	ug/L	20.0		94	79-129			
Chlorobenzene	21		1.0	ug/L	20.0		107	79-121			
Toluene	21		1.0	ug/L	20.0		107	77-120			
Trichloroethene	22		1.0	ug/L	20.0		111	78-118			
Surrogate: 4-Bromofluorobenzene	*54*			*ug/L*	*50.0*		*107*	*61-118*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*101*	*66-114*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I15005 - EPA 5035_MS

LCS (0I15005-BS1) Continued Prepared: 09/15/2010 08:26 Analyzed: 09/15/2010 14:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*102*	*63-118*			

Matrix Spike (0I15005-MS1) Prepared: 09/15/2010 08:26 Analyzed: 09/15/2010 15:16

Source: C010771-01

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	0.30 U	106	64-133			
Benzene	19		1.0	ug/L	20.0	0.17 U	95	79-129			
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	107	79-121			
Toluene	21		1.0	ug/L	20.0	0.20 U	104	77-120			
Trichloroethene	24		1.0	ug/L	20.0	0.27 U	119	78-118			QM-07
Surrogate: 4-Bromofluorobenzene	*54*			*ug/L*	*50.0*		*108*	*61-118*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*100*	*66-114*			
Surrogate: Toluene-d8	*52*			*ug/L*	*50.0*		*103*	*63-118*			

Matrix Spike Dup (0I15005-MSD1) Prepared: 09/15/2010 08:26 Analyzed: 09/15/2010 15:45

Source: C010771-01

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	0.30 U	104	64-133	2	23	
Benzene	19		1.0	ug/L	20.0	0.17 U	93	79-129	3	23	
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	104	79-121	3	25	
Toluene	21		1.0	ug/L	20.0	0.20 U	105	77-120	0.5	23	
Trichloroethene	22		1.0	ug/L	20.0	0.27 U	108	78-118	10	24	
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*107*	*61-118*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*95*	*66-114*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*101*	*63-118*			

Batch 0I21004 - EPA 5035_MS

Blank (0I21004-BLK1) Prepared: 09/21/2010 08:11 Analyzed: 09/21/2010 10:44

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							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I21004 - EPA 5035_MS

Blank (0I21004-BLK1) Continued Prepared: 09/21/2010 08:11 Analyzed: 09/21/2010 10:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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							
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							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I21004 - EPA 5035_MS

Blank (0I21004-BLK1) Continued Prepared: 09/21/2010 08:11 Analyzed: 09/21/2010 10:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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*		*89*	*66-114*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.0*		*92*	*63-118*			

LCS (0I21004-BS1) Prepared: 09/21/2010 08:11 Analyzed: 09/21/2010 11:13

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		94	64-133			
Benzene	18		1.0	ug/L	20.0		90	79-129			
Chlorobenzene	18		1.0	ug/L	20.0		91	79-121			
Toluene	18		1.0	ug/L	20.0		91	77-120			
Trichloroethene	18		1.0	ug/L	20.0		92	78-118			
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*61-118*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*89*	*66-114*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.0*		*92*	*63-118*			

Matrix Spike (0I21004-MS1) Prepared: 09/21/2010 08:11 Analyzed: 09/21/2010 11:41

Source: C010771-05

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	99	64-133			
Benzene	19		1.0	ug/L	20.0	0.17 U	95	79-129			
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	97	79-121			
Toluene	19		1.0	ug/L	20.0	0.20 U	93	77-120			
Trichloroethene	19		1.0	ug/L	20.0	0.27 U	96	78-118			
Surrogate: 4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*92*	*61-118*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*91*	*66-114*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.0*		*93*	*63-118*			

Matrix Spike Dup (0I21004-MSD1) Prepared: 09/21/2010 08:11 Analyzed: 09/21/2010 12:10

Source: C010771-05

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	98	64-133	0.8	23	
Benzene	19		1.0	ug/L	20.0	0.17 U	93	79-129	1	23	
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	97	79-121	0.2	25	
Toluene	20		1.0	ug/L	20.0	0.20 U	99	77-120	6	23	
Trichloroethene	19		1.0	ug/L	20.0	0.27 U	94	78-118	2	24	
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*61-118*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*89*	*66-114*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.0*		*92*	*63-118*			

QUALITY CONTROL

Tentatively Identified Compounds by Volatile 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
Carbon Dioxide	110	J		ug/L							

Batch 0I15005 - EPA 5035_MS

Blank (0I15005-BLK1) Prepared: 09/15/2010 08:26 Analyzed: 09/15/2010 14:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon Dioxide	0.053	J		mg/kg wet							
Cyclopentasiloxane, decamet...	0.0070	J		mg/kg wet							
Cyclotetrasiloxane, octamet...	0.017	J		mg/kg wet							

Batch 0I21004 - EPA 5035_MS

Blank (0I21004-BLK1) Prepared: 09/21/2010 08:11 Analyzed: 09/21/2010 10:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon Dioxide	0.087	J		mg/kg wet							
Cyclopentasiloxane, decamet...	0.0056	J		mg/kg wet							
Cyclotetrasiloxane, octamet...	0.016	J		mg/kg wet							
Pentane	0.012	J		mg/kg wet							

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 0I14023 - EPA 3510C_MS

Blank (0I14023-BLK1) Prepared: 09/14/2010 12:33 Analyzed: 09/23/2010 00:27

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	1.2	U	10	ug/L							
1,2-Dichlorobenzene	1.1	U	10	ug/L							
1,3-Dichlorobenzene	1.1	U	10	ug/L							
1,4-Dichlorobenzene	1.0	U	10	ug/L							
1-Methylnaphthalene	1.7	U	10	ug/L							
2,4,5-Trichlorophenol	1.0	U	10	ug/L							
2,4,6-Trichlorophenol	1.1	U	10	ug/L							
2,4-Dichlorophenol	1.4	U	10	ug/L							
2,4-Dimethylphenol	1.3	U	10	ug/L							
2,4-Dinitrophenol	2.6	U	10	ug/L							
2,4-Dinitrotoluene	2.4	U	10	ug/L							
2,6-Dinitrotoluene	1.5	U	10	ug/L							
2-Chloronaphthalene	1.0	U	10	ug/L							
2-Chlorophenol	1.2	U	10	ug/L							
2-Methyl-4,6-dinitrophenol	2.9	U	10	ug/L							
2-Methylnaphthalene	1.5	U	10	ug/L							
2-Methylphenol	1.4	U	10	ug/L							
2-Nitroaniline	1.5	U	10	ug/L							
2-Nitrophenol	1.1	U	10	ug/L							
3 & 4-Methylphenol	1.6	U	10	ug/L							
3,3'-Dichlorobenzidine	3.3	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 0I14023 - EPA 3510C_MS

Blank (0I14023-BLK1) Continued Prepared: 09/14/2010 12:33 Analyzed: 09/23/2010 00:27

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
3-Nitroaniline	2.1	U	10	ug/L							
4-Bromophenyl-phenylether	1.0	U	10	ug/L							
4-Chloro-3-methylphenol	1.5	U	10	ug/L							
4-Chloroaniline	1.2	U	10	ug/L							
4-Chlorophenyl-phenylether	1.6	U	10	ug/L							
4-Nitroaniline	3.2	U	10	ug/L							
4-Nitrophenol	2.0	U	10	ug/L							
Acenaphthene	1.4	U	10	ug/L							
Acenaphthylene	1.2	U	10	ug/L							
Anthracene	1.6	U	10	ug/L							
Benzidine	1.6	U	10	ug/L							
Benzo(a)anthracene	1.3	U	10	ug/L							
Benzo(a)pyrene	1.3	U	10	ug/L							
Benzo(b)fluoranthene	1.0	U	10	ug/L							
Benzo(g,h,i)perylene	2.4	U	10	ug/L							
Benzo(k)fluoranthene	1.3	U	10	ug/L							
Benzoic acid	1.0	U	50	ug/L							
Benzyl alcohol	1.4	U	10	ug/L							
Bis(2-chloroethoxy)methane	1.4	U	10	ug/L							
Bis(2-chloroethyl)ether	1.2	U	10	ug/L							
Bis(2-chloroisopropyl)ether	1.3	U	10	ug/L							
Bis(2-ethylhexyl)phthalate	1.7	U	5.0	ug/L							
Butylbenzylphthalate	2.0	U	10	ug/L							
Chrysene	2.0	U	10	ug/L							
Dibenzo(a,h)anthracene	2.3	U	10	ug/L							
Dibenzofuran	1.4	U	10	ug/L							
Diethylphthalate	2.1	U	10	ug/L							
Dimethylphthalate	1.4	U	10	ug/L							
Di-n-butylphthalate	1.5	U	10	ug/L							
Di-n-octylphthalate	3.1	U	10	ug/L							
Fluoranthene	2.1	U	10	ug/L							
Fluorene	1.7	U	10	ug/L							
Hexachlorobenzene	1.0	U	10	ug/L							
Hexachlorobutadiene	1.2	U	10	ug/L							
Hexachlorocyclopentadiene	1.3	U	10	ug/L							
Hexachloroethane	1.1	U	10	ug/L							
Indeno(1,2,3-cd)pyrene	2.2	U	10	ug/L							
Isophorone	1.3	U	10	ug/L							
Naphthalene	1.3	U	10	ug/L							
Nitrobenzene	1.2	U	10	ug/L							
N-Nitrosodimethylamine	1.3	U	10	ug/L							
N-Nitroso-di-n-propylamine	1.5	U	10	ug/L							
N-nitrosodiphenylamine/Diphenylamine	2.1	U	10	ug/L							
Pentachlorophenol	1.8	U	10	ug/L							
Phenanthrene	1.4	U	10	ug/L							
Phenol	1.4	U	10	ug/L							
Pyrene	2.1	U	10	ug/L							
Pyridine	1.3	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 0I14023 - EPA 3510C_MS

Blank (0I14023-BLK1) Continued Prepared: 09/14/2010 12:33 Analyzed: 09/23/2010 00:27

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 2,4,6-Tribromophenol	*62*			*ug/L*	*100*		*62*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*39*			*ug/L*	*50.0*		*77*	*10-149*			
Surrogate: 2-Fluorophenol	*55*			*ug/L*	*100*		*55*	*10-110*			
Surrogate: Nitrobenzene-d5	*39*			*ug/L*	*50.0*		*79*	*10-149*			
Surrogate: Phenol-d5	*45*			*ug/L*	*100*		*45*	*10-88*			
Surrogate: Terphenyl-d14	*42*			*ug/L*	*50.0*		*85*	*10-188*			

LCS (0I14023-BS1) Prepared: 09/14/2010 12:33 Analyzed: 09/23/2010 00:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	34		10	ug/L	50.0		67	27-90			
1,4-Dichlorobenzene	32		10	ug/L	50.0		64	23-84			
2,4-Dinitrotoluene	43		10	ug/L	50.0		87	67-132			
2-Chlorophenol	38		10	ug/L	50.0		77	40-109			
4-Chloro-3-methylphenol	43		10	ug/L	50.0		85	58-121			
4-Nitrophenol	29		10	ug/L	50.0		58	33-105			
Acenaphthene	39		10	ug/L	50.0		78	39-125			
N-Nitroso-di-n-propylamine	41		10	ug/L	50.0		82	48-126			
Pentachlorophenol	32		10	ug/L	50.0		64	51-135			
Phenol	25		10	ug/L	50.0		49	19-78			
Pyrene	43		10	ug/L	50.0		86	44-137			
Surrogate: 2,4,6-Tribromophenol	*82*			*ug/L*	*100*		*82*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*40*			*ug/L*	*50.0*		*79*	*10-149*			
Surrogate: 2-Fluorophenol	*58*			*ug/L*	*100*		*58*	*10-110*			
Surrogate: Nitrobenzene-d5	*40*			*ug/L*	*50.0*		*79*	*10-149*			
Surrogate: Phenol-d5	*49*			*ug/L*	*100*		*49*	*10-88*			
Surrogate: Terphenyl-d14	*42*			*ug/L*	*50.0*		*85*	*10-188*			

Matrix Spike (0I14023-MS1) Prepared: 09/14/2010 12:33 Analyzed: 09/23/2010 01:56

Source: C010549-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	33		10	ug/L	50.0	1.2 U	66	27-90			
1,4-Dichlorobenzene	31		10	ug/L	50.0	1.0 U	61	23-84			
2,4-Dinitrotoluene	39		10	ug/L	50.0	2.4 U	78	67-132			
2-Chlorophenol	35		10	ug/L	50.0	1.2 U	70	40-109			
4-Chloro-3-methylphenol	38		10	ug/L	50.0	1.5 U	75	58-121			
4-Nitrophenol	25		10	ug/L	50.0	2.0 U	51	33-105			
Acenaphthene	36		10	ug/L	50.0	1.4 U	73	39-125			
N-Nitroso-di-n-propylamine	37		10	ug/L	50.0	1.5 U	75	48-126			
Pentachlorophenol	31		10	ug/L	50.0	1.8 U	63	51-135			
Phenol	21		10	ug/L	50.0	1.4 U	43	19-78			
Pyrene	40		10	ug/L	50.0	2.1 U	81	44-137			
Surrogate: 2,4,6-Tribromophenol	*75*			*ug/L*	*100*		*75*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*38*			*ug/L*	*50.0*		*76*	*10-149*			
Surrogate: 2-Fluorophenol	*53*			*ug/L*	*100*		*53*	*10-110*			
Surrogate: Nitrobenzene-d5	*38*			*ug/L*	*50.0*		*76*	*10-149*			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 0I14023 - EPA 3510C_MS

Matrix Spike (0I14023-MS1) Continued Prepared: 09/14/2010 12:33 Analyzed: 09/23/2010 01:56

Source: C010549-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Phenol-d5	*43*			*ug/L*	*100*		*43*	*10-88*			
Surrogate: Terphenyl-d14	*40*			*ug/L*	*50.0*		*81*	*10-188*			

Matrix Spike Dup (0I14023-MSD1) Prepared: 09/14/2010 12:33 Analyzed: 09/23/2010 02:25

Source: C010549-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	32		10	ug/L	50.0	1.2 U	65	27-90	0.8	43	
1,4-Dichlorobenzene	30		10	ug/L	50.0	1.0 U	59	23-84	4	39	
2,4-Dinitrotoluene	39		10	ug/L	50.0	2.4 U	78	67-132	0.8	17	
2-Chlorophenol	35		10	ug/L	50.0	1.2 U	69	40-109	1	22	
4-Chloro-3-methylphenol	39		10	ug/L	50.0	1.5 U	78	58-121	4	22	
4-Nitrophenol	26		10	ug/L	50.0	2.0 U	52	33-105	3	27	
Acenaphthene	37		10	ug/L	50.0	1.4 U	74	39-125	2	25	
N-Nitroso-di-n-propylamine	38		10	ug/L	50.0	1.5 U	77	48-126	3	23	
Pentachlorophenol	31		10	ug/L	50.0	1.8 U	63	51-135	0.2	11	
Phenol	22		10	ug/L	50.0	1.4 U	44	19-78	3	18	
Pyrene	39		10	ug/L	50.0	2.1 U	79	44-137	2	24	
Surrogate: 2,4,6-Tribromophenol	*73*			*ug/L*	*100*		*73*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*38*			*ug/L*	*50.0*		*76*	*10-149*			
Surrogate: 2-Fluorophenol	*50*			*ug/L*	*100*		*50*	*10-110*			
Surrogate: Nitrobenzene-d5	*37*			*ug/L*	*50.0*		*74*	*10-149*			
Surrogate: Phenol-d5	*44*			*ug/L*	*100*		*44*	*10-88*			
Surrogate: Terphenyl-d14	*39*			*ug/L*	*50.0*		*77*	*10-188*			

Batch 0I16021 - EPA 3550C_MS

Blank (0I16021-BLK1) Prepared: 09/16/2010 14:49 Analyzed: 09/20/2010 16:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	0.023	U	0.33	mg/kg wet							
1,2-Dichlorobenzene	0.032	U	0.33	mg/kg wet							
1,3-Dichlorobenzene	0.030	U	0.33	mg/kg wet							
1,4-Dichlorobenzene	0.027	U	0.33	mg/kg wet							
1-Methylnaphthalene	0.035	U	0.33	mg/kg wet							
2,4,5-Trichlorophenol	0.033	U	0.33	mg/kg wet							
2,4,6-Trichlorophenol	0.032	U	0.33	mg/kg wet							
2,4-Dichlorophenol	0.025	U	0.33	mg/kg wet							
2,4-Dimethylphenol	0.059	U	0.33	mg/kg wet							
2,4-Dinitrophenol	0.047	U	0.33	mg/kg wet							
2,4-Dinitrotoluene	0.031	U	0.33	mg/kg wet							
2,6-Dinitrotoluene	0.025	U	0.33	mg/kg wet							
2-Chloronaphthalene	0.024	U	0.33	mg/kg wet							
2-Chlorophenol	0.029	U	0.33	mg/kg wet							
2-Methyl-4,6-dinitrophenol	0.050	U	0.33	mg/kg wet							
2-Methylnaphthalene	0.037	U	0.33	mg/kg wet							
2-Methylphenol	0.038	U	0.33	mg/kg wet							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 0I16021 - EPA 3550C_MS

Blank (0I16021-BLK1) Continued Prepared: 09/16/2010 14:49 Analyzed: 09/20/2010 16:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Nitroaniline	0.030	U	0.33	mg/kg wet							
2-Nitrophenol	0.033	U	0.33	mg/kg wet							
3 & 4-Methylphenol	0.025	U	0.33	mg/kg wet							
3,3'-Dichlorobenzidine	0.042	U	0.33	mg/kg wet							
3-Nitroaniline	0.044	U	0.33	mg/kg wet							
4-Bromophenyl-phenylether	0.025	U	0.33	mg/kg wet							
4-Chloro-3-methylphenol	0.028	U	0.33	mg/kg wet							
4-Chloroaniline	0.030	U	0.33	mg/kg wet							
4-Chlorophenyl-phenylether	0.025	U	0.33	mg/kg wet							
4-Nitroaniline	0.059	U	0.33	mg/kg wet							
4-Nitrophenol	0.042	U	0.33	mg/kg wet							
Acenaphthene	0.025	U	0.33	mg/kg wet							
Acenaphthylene	0.025	U	0.33	mg/kg wet							
Anthracene	0.033	U	0.33	mg/kg wet							
Benzidine	0.11	U	0.33	mg/kg wet							QV-01
Benzo(a)anthracene	0.025	U	0.33	mg/kg wet							
Benzo(a)pyrene	0.027	U	0.33	mg/kg wet							
Benzo(b)fluoranthene	0.027	U	0.33	mg/kg wet							
Benzo(g,h,i)perylene	0.039	U	0.33	mg/kg wet							
Benzo(k)fluoranthene	0.027	U	0.33	mg/kg wet							
Benzoic acid	0.11	U	1.7	mg/kg wet							
Benzyl alcohol	0.066	U	0.33	mg/kg wet							
Bis(2-chloroethoxy)methane	0.021	U	0.33	mg/kg wet							
Bis(2-chloroethyl)ether	0.050	U	0.33	mg/kg wet							
Bis(2-chloroisopropyl)ether	0.026	U	0.33	mg/kg wet							
Bis(2-ethylhexyl)phthalate	0.037	U	0.33	mg/kg wet							
Butylbenzylphthalate	0.034	U	0.33	mg/kg wet							QV-02
Chrysene	0.025	U	0.33	mg/kg wet							
Dibenzo(a,h)anthracene	0.041	U	0.33	mg/kg wet							
Dibenzofuran	0.025	U	0.33	mg/kg wet							
Diethylphthalate	0.025	U	0.33	mg/kg wet							
Dimethylphthalate	0.025	U	0.33	mg/kg wet							
Di-n-butylphthalate	0.031	U	0.33	mg/kg wet							
Di-n-octylphthalate	0.027	U	0.33	mg/kg wet							
Fluoranthene	0.043	U	0.33	mg/kg wet							
Fluorene	0.025	U	0.33	mg/kg wet							
Hexachlorobenzene	0.025	U	0.33	mg/kg wet							
Hexachlorobutadiene	0.028	U	0.33	mg/kg wet							
Hexachlorocyclopentadiene	0.043	U	0.33	mg/kg wet							
Hexachloroethane	0.033	U	0.33	mg/kg wet							
Indeno(1,2,3-cd)pyrene	0.038	U	0.33	mg/kg wet							
Isophorone	0.016	U	0.33	mg/kg wet							
Naphthalene	0.025	U	0.33	mg/kg wet							
Nitrobenzene	0.025	U	0.33	mg/kg wet							
N-Nitrosodimethylamine	0.027	U	0.33	mg/kg wet							
N-Nitroso-di-n-propylamine	0.017	U	0.33	mg/kg wet							
N-nitrosodiphenylamine/Diphenylamine	0.026	U	0.33	mg/kg wet							
Pentachlorophenol	0.025	U	0.33	mg/kg wet							
Phenanthrene	0.026	U	0.33	mg/kg wet							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 0I16021 - EPA 3550C_MS

Blank (0I16021-BLK1) Continued Prepared: 09/16/2010 14:49 Analyzed: 09/20/2010 16:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phenol	0.025	U	0.33	mg/kg wet							
Pyrene	0.048	U	0.33	mg/kg wet							
Pyridine	0.12	U	0.33	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*2.1*			*mg/kg wet*	*3.33*		*64*	*28-130*			
Surrogate: 2-Fluorobiphenyl	*1.4*			*mg/kg wet*	*1.67*		*84*	*56-120*			
Surrogate: 2-Fluorophenol	*2.5*			*mg/kg wet*	*3.33*		*75*	*49-126*			
Surrogate: Nitrobenzene-d5	*1.4*			*mg/kg wet*	*1.67*		*86*	*50-117*			
Surrogate: Phenol-d5	*2.7*			*mg/kg wet*	*3.33*		*80*	*56-120*			
Surrogate: Terphenyl-d14	*1.8*			*mg/kg wet*	*1.67*		*108*	*36-151*			

LCS (0I16021-BS1) Prepared: 09/16/2010 14:49 Analyzed: 09/20/2010 16:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	1.4		0.33	mg/kg wet	1.67		85	51-121			
1,4-Dichlorobenzene	1.4		0.33	mg/kg wet	1.67		84	48-118			
2,4-Dinitrotoluene	1.7		0.33	mg/kg wet	1.67		103	63-127			
2-Chlorophenol	1.4		0.33	mg/kg wet	1.67		86	56-120			
4-Chloro-3-methylphenol	1.6		0.33	mg/kg wet	1.67		94	59-121			
4-Nitrophenol	1.8		0.33	mg/kg wet	1.67		107	73-147			
Acenaphthene	1.4		0.33	mg/kg wet	1.67		87	64-131			
N-Nitroso-di-n-propylamine	1.5		0.33	mg/kg wet	1.67		90	55-135			
Pentachlorophenol	1.1		0.33	mg/kg wet	1.67		64	45-117			
Phenol	1.5		0.33	mg/kg wet	1.67		87	54-121			
Pyrene	1.6		0.33	mg/kg wet	1.67		97	65-146			
Surrogate: 2,4,6-Tribromophenol	*3.0*			*mg/kg wet*	*3.33*		*91*	*28-130*			
Surrogate: 2-Fluorobiphenyl	*1.4*			*mg/kg wet*	*1.67*		*84*	*56-120*			
Surrogate: 2-Fluorophenol	*2.7*			*mg/kg wet*	*3.33*		*80*	*49-126*			
Surrogate: Nitrobenzene-d5	*1.5*			*mg/kg wet*	*1.67*		*89*	*50-117*			
Surrogate: Phenol-d5	*2.8*			*mg/kg wet*	*3.33*		*83*	*56-120*			
Surrogate: Terphenyl-d14	*1.7*			*mg/kg wet*	*1.67*		*100*	*36-151*			

Matrix Spike (0I16021-MS1) Prepared: 09/16/2010 14:49 Analyzed: 09/20/2010 17:57

Source: C010147-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	1.5		0.37	mg/kg dry	1.89	0.026 U	82	51-121			
1,4-Dichlorobenzene	1.5		0.37	mg/kg dry	1.89	0.031 U	77	48-118			
2,4-Dinitrotoluene	1.9		0.37	mg/kg dry	1.89	0.035 U	98	63-127			
2-Chlorophenol	1.6		0.37	mg/kg dry	1.89	0.033 U	83	56-120			
4-Chloro-3-methylphenol	1.7		0.37	mg/kg dry	1.89	0.032 U	90	59-121			
4-Nitrophenol	2.1		0.37	mg/kg dry	1.89	0.048 U	112	73-147			
Acenaphthene	1.7		0.37	mg/kg dry	1.89	0.028 U	87	64-131			
N-Nitroso-di-n-propylamine	1.6		0.37	mg/kg dry	1.89	0.019 U	86	55-135			
Pentachlorophenol	1.3		0.37	mg/kg dry	1.89	0.028 U	68	45-117			
Phenol	1.6		0.37	mg/kg dry	1.89	0.028 U	87	54-121			
Pyrene	1.6		0.37	mg/kg dry	1.89	0.054 U	87	65-146			
Surrogate: 2,4,6-Tribromophenol	*3.5*			*mg/kg dry*	*3.78*		*94*	*28-130*			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 0I16021 - EPA 3550C_MS

Matrix Spike (0I16021-MS1) Continued Prepared: 09/16/2010 14:49 Analyzed: 09/20/2010 17:57

Source: C010147-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 2-Fluorobiphenyl	*1.6*			*mg/kg dry*	*1.89*		*84*	*56-120*			
Surrogate: 2-Fluorophenol	*2.9*			*mg/kg dry*	*3.78*		*75*	*49-126*			
Surrogate: Nitrobenzene-d5	*1.6*			*mg/kg dry*	*1.89*		*86*	*50-117*			
Surrogate: Phenol-d5	*3.1*			*mg/kg dry*	*3.78*		*82*	*56-120*			
Surrogate: Terphenyl-d14	*1.7*			*mg/kg dry*	*1.89*		*88*	*36-151*			

Matrix Spike Dup (0I16021-MSD1) Prepared: 09/16/2010 14:49 Analyzed: 09/20/2010 18:27

Source: C010147-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	1.6		0.37	mg/kg dry	1.89	0.026 U	82	51-121	0.9	10	
1,4-Dichlorobenzene	1.5		0.37	mg/kg dry	1.89	0.031 U	78	48-118	1	13	
2,4-Dinitrotoluene	1.9		0.37	mg/kg dry	1.89	0.035 U	98	63-127	0.4	10	
2-Chlorophenol	1.6		0.37	mg/kg dry	1.89	0.033 U	84	56-120	1	11	
4-Chloro-3-methylphenol	1.7		0.37	mg/kg dry	1.89	0.032 U	91	59-121	0.7	10	
4-Nitrophenol	2.1		0.37	mg/kg dry	1.89	0.048 U	113	73-147	0.7	10	
Acenaphthene	1.7		0.37	mg/kg dry	1.89	0.028 U	88	64-131	0.4	19	
N-Nitroso-di-n-propylamine	1.7		0.37	mg/kg dry	1.89	0.019 U	89	55-135	3	10	
Pentachlorophenol	1.3		0.37	mg/kg dry	1.89	0.028 U	69	45-117	1	10	
Phenol	1.7		0.37	mg/kg dry	1.89	0.028 U	88	54-121	0.5	13	
Pyrene	1.6		0.37	mg/kg dry	1.89	0.054 U	87	65-146	0.5	50	
Surrogate: 2,4,6-Tribromophenol	*3.5*			*mg/kg dry*	*3.78*		*92*	*28-130*			
Surrogate: 2-Fluorobiphenyl	*1.6*			*mg/kg dry*	*1.89*		*85*	*56-120*			
Surrogate: 2-Fluorophenol	*2.8*			*mg/kg dry*	*3.78*		*75*	*49-126*			
Surrogate: Nitrobenzene-d5	*1.6*			*mg/kg dry*	*1.89*		*86*	*50-117*			
Surrogate: Phenol-d5	*3.1*			*mg/kg dry*	*3.78*		*82*	*56-120*			
Surrogate: Terphenyl-d14	*1.6*			*mg/kg dry*	*1.89*		*86*	*36-151*			

Tentatively Identified Compounds by Semivolatile GCMS - Quality Control

Batch 0I14023 - EPA 3510C_MS

Blank (0I14023-BLK1) Prepared: 09/14/2010 12:33 Analyzed: 09/23/2010 00:27

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Unknown (01)	**8.6**	**J**		ug/L							
Unknown (02)	**13**	**J**		ug/L							

Batch 0I16021 - EPA 3550C_MS

Blank (0I16021-BLK1) Prepared: 09/16/2010 14:49 Analyzed: 09/20/2010 16:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorocyclohexanol	**0.14**	**J**		mg/kg wet							
Ethane, 1,1,2,2-tetrachloro-	**0.30**	**J**		mg/kg wet							
Unknown	**0.47**	**J**		mg/kg wet							

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 0I14004 - EPA 3510C

Blank (0I14004-BLK1) Prepared: 09/14/2010 07:47 Analyzed: 09/21/2010 23:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.013	U	0.050	ug/L							
4,4'-DDE	0.012	U	0.050	ug/L							
4,4'-DDT	0.015	U	0.050	ug/L							
Aldrin	0.012	U	0.050	ug/L							
alpha-BHC	0.015	U	0.050	ug/L							
beta-BHC	0.012	U	0.050	ug/L							
Chlordane (tech)	0.20	U	0.50	ug/L							
Chlordane-alpha	0.014	U	0.050	ug/L							
Chlordane-gamma	0.012	U	0.050	ug/L							
delta-BHC	0.014	U	0.050	ug/L							
Dieldrin	0.0089	U	0.050	ug/L							
Endosulfan I	0.016	U	0.050	ug/L							
Endosulfan II	0.012	U	0.050	ug/L							
Endosulfan sulfate	0.012	U	0.050	ug/L							
Endrin	0.013	U	0.050	ug/L							
Endrin aldehyde	0.012	U	0.050	ug/L							
Endrin ketone	0.012	U	0.050	ug/L							
gamma-BHC	0.016	U	0.050	ug/L							
Heptachlor	0.012	U	0.050	ug/L							
Heptachlor epoxide	0.0089	U	0.050	ug/L							
Isodrin	0.013	U	0.050	ug/L							
Methoxychlor	0.016	U	0.050	ug/L							
Mirex	0.016	U	0.050	ug/L							
Toxaphene	0.22	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*0.97*			*ug/L*	*1.00*		*97*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.1*			*ug/L*	*1.00*		*109*	*37-149*			

LCS (0I14004-BS1) Prepared: 09/14/2010 07:47 Analyzed: 09/21/2010 23:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.1		0.050	ug/L	1.00		108	37-139			
Dieldrin	1.0		0.050	ug/L	1.00		103	46-132			
Endrin	1.0		0.050	ug/L	1.00		102	43-133			
Surrogate: 2,4,5,6-TCMX	*0.91*			*ug/L*	*1.00*		*91*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.1*			*ug/L*	*1.00*		*106*	*37-149*			

Matrix Spike (0I14004-MS1) Prepared: 09/14/2010 07:47 Analyzed: 09/22/2010 00:19

Source: C010549-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.1		0.050	ug/L	1.00	0.015 U	109	37-139			
Dieldrin	1.0		0.050	ug/L	1.00	0.0089 U	101	46-132			
Endrin	1.0		0.050	ug/L	1.00	0.013 U	101	43-133			
Surrogate: 2,4,5,6-TCMX	*0.92*			*ug/L*	*1.00*		*92*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.0*			*ug/L*	*1.00*		*104*	*37-149*			

Matrix Spike Dup (0I14004-MSD1) Prepared: 09/14/2010 07:47 Analyzed: 09/22/2010 00:32

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 0I14004 - EPA 3510C

Matrix Spike Dup (0I14004-MSD1) Continued Prepared: 09/14/2010 07:47 Analyzed: 09/22/2010 00:32

Source: C010549-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.1		0.050	ug/L	1.00	0.015 U	106	37-139	3	26	
Dieldrin	0.99		0.050	ug/L	1.00	0.0089 U	99	46-132	2	27	
Endrin	0.99		0.050	ug/L	1.00	0.013 U	99	43-133	2	26	
Surrogate: 2,4,5,6-TCMX	*0.90*			*ug/L*	*1.00*		*90*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.0*			*ug/L*	*1.00*		*103*	*37-149*			

Batch 0I14011 - EPA 3550C

Blank (0I14011-BLK1) Prepared: 09/14/2010 09:57 Analyzed: 09/16/2010 18:06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.00032	U	0.0017	mg/kg wet							
4,4'-DDE	0.00041	U	0.0017	mg/kg wet							
4,4'-DDT	0.00052	U	0.0017	mg/kg wet							
Aldrin	0.00036	U	0.0017	mg/kg wet							
alpha-BHC	0.00049	U	0.0017	mg/kg wet							
beta-BHC	0.00071	U	0.0017	mg/kg wet							
Chlordane (tech)	0.0011	U	0.033	mg/kg wet							
Chlordane-alpha	0.00046	U	0.0017	mg/kg wet							
Chlordane-gamma	0.00060	U	0.0017	mg/kg wet							
delta-BHC	0.00030	U	0.0017	mg/kg wet							
Dieldrin	0.00032	U	0.0017	mg/kg wet							
Endosulfan I	0.00041	U	0.0017	mg/kg wet							
Endosulfan II	0.00039	U	0.0017	mg/kg wet							
Endosulfan sulfate	0.00048	U	0.0017	mg/kg wet							
Endrin	0.00039	U	0.0017	mg/kg wet							
Endrin aldehyde	0.00034	U	0.0017	mg/kg wet							
Endrin ketone	0.00030	U	0.0017	mg/kg wet							
gamma-BHC	0.00042	U	0.0017	mg/kg wet							
Heptachlor	0.00046	U	0.0017	mg/kg wet							
Heptachlor epoxide	0.00043	U	0.0017	mg/kg wet							
Isodrin	0.00036	U	0.0017	mg/kg wet							
Methoxychlor	0.00042	U	0.0017	mg/kg wet							
Mirex	0.00056	U	0.0017	mg/kg wet							
Toxaphene	0.010	U	0.017	mg/kg wet							
Surrogate: 2,4,5,6-TCMX	*0.048*			*mg/kg wet*	*0.0333*		*145*	*59-137*			*QS-03*
Surrogate: Decachlorobiphenyl	*0.043*			*mg/kg wet*	*0.0333*		*130*	*60-140*			

LCS (0I14011-BS1) Prepared: 09/14/2010 09:57 Analyzed: 09/16/2010 18:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.057		0.0017	mg/kg wet	0.0333		170	38-142			QL-02
Dieldrin	0.045		0.0017	mg/kg wet	0.0333		134	51-129			QL-02
Endrin	0.047		0.0017	mg/kg wet	0.0333		140	51-126			QL-02
Surrogate: 2,4,5,6-TCMX	*0.051*			*mg/kg wet*	*0.0333*		*152*	*59-137*			*QS-03*
Surrogate: Decachlorobiphenyl	*0.045*			*mg/kg wet*	*0.0333*		*135*	*60-140*			

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 0I14011 - EPA 3550C

Matrix Spike (0I14011-MS1) Prepared: 09/14/2010 09:57 Analyzed: 09/16/2010 18:33

Source: C010080-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.073		0.0019	mg/kg dry	0.0379	0.00059 U	194	38-142			QM-07
Dieldrin	0.15		0.0019	mg/kg dry	0.0379	0.12	74	51-129			
Endrin	0.053		0.0019	mg/kg dry	0.0379	0.00044 U	139	51-126			QM-07
Surrogate: 2,4,5,6-TCMX	*0.058*			*mg/kg dry*	*0.0379*		*153*	*59-137*			*QS-03*
Surrogate: Decachlorobiphenyl	*0.049*			*mg/kg dry*	*0.0379*		*129*	*60-140*			

Matrix Spike Dup (0I14011-MSD1) Prepared: 09/14/2010 09:57 Analyzed: 09/16/2010 18:46

Source: C010080-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.072		0.0019	mg/kg dry	0.0379	0.00059 U	190	38-142	2	42	QM-07
Dieldrin	0.14		0.0019	mg/kg dry	0.0379	0.12	48	51-129	7	40	QM-07
Endrin	0.051		0.0019	mg/kg dry	0.0379	0.00044 U	135	51-126	3	33	QM-07
Surrogate: 2,4,5,6-TCMX	*0.054*			*mg/kg dry*	*0.0379*		*143*	*59-137*			*QS-03*
Surrogate: Decachlorobiphenyl	*0.046*			*mg/kg dry*	*0.0379*		*123*	*60-140*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 0I14017 - EPA 7471B

Blank (0I14017-BLK1) Prepared: 09/14/2010 10:54 Analyzed: 09/14/2010 16:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00480	U	0.0100	mg/kg wet							

LCS (0I14017-BS1) Prepared: 09/14/2010 10:54 Analyzed: 09/14/2010 16:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.259		0.0100	mg/kg wet	0.246		105	85-115			

Matrix Spike (0I14017-MS1) Prepared: 09/14/2010 10:54 Analyzed: 09/14/2010 16:14

Source: C010147-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.283		0.0107	mg/kg dry	0.264	0.00515 U	107	85-115			

Matrix Spike Dup (0I14017-MSD1) Prepared: 09/14/2010 10:54 Analyzed: 09/14/2010 16:17

Source: C010147-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.269		0.0107	mg/kg dry	0.268	0.00515 U	100	85-115	5	15	

Post Spike (0I14017-PS1) Prepared: 09/14/2010 10:54 Analyzed: 09/14/2010 16:20

Source: C010147-01

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 0I14017 - EPA 7471B

Post Spike (0I14017-PS1) Continued Prepared: 09/14/2010 10:54 Analyzed: 09/14/2010 16:20

Source: C010147-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.98		0.200	ug/L	5.00	-0.420	108	75-125			

Batch 0I15010 - EPA 245.1

Blank (0I15010-BLK1) Prepared: 09/15/2010 08:56 Analyzed: 09/15/2010 16:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (0I15010-BS1) Prepared: 09/15/2010 08:56 Analyzed: 09/15/2010 16:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.99		0.200	ug/L	5.00		100	85-115			

Matrix Spike (0I15010-MS1) Prepared: 09/15/2010 08:56 Analyzed: 09/15/2010 16:27

Source: C010137-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.86		0.200	ug/L	5.00	0.170 U	97	85-115			

Matrix Spike Dup (0I15010-MSD1) Prepared: 09/15/2010 08:56 Analyzed: 09/15/2010 16:30

Source: C010137-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.47		0.200	ug/L	5.00	0.170 U	89	85-115	8	15	

Post Spike (0I15010-PS1) Prepared: 09/15/2010 08:56 Analyzed: 09/15/2010 16:33

Source: C010137-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	3.91		0.200	ug/L	5.00	-0.211	82	75-125			

Batch 0I20010 - EPA 3050B

Blank (0I20010-BLK1) Prepared: 09/20/2010 10:28 Analyzed: 09/21/2010 14:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.110	U	1.00	mg/kg wet							
Arsenic	0.100	U	0.500	mg/kg wet							
Beryllium	0.0120	U	0.0500	mg/kg wet							
Cadmium	0.00960	U	0.0500	mg/kg wet							
Chromium	0.100	U	0.500	mg/kg wet							
Copper	0.190	U	0.500	mg/kg wet							
Lead	0.120	U	0.500	mg/kg wet							
Manganese	0.100	U	0.500	mg/kg wet							
Nickel	0.360	U	2.50	mg/kg wet							

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 0I20010 - EPA 3050B

Blank (0I20010-BLK1) Continued Prepared: 09/20/2010 10:28 Analyzed: 09/21/2010 14:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Selenium	**0.122**	**J**	0.500	mg/kg wet							
Silver	0.100	U	0.500	mg/kg wet							
Thallium	0.100	U	0.500	mg/kg wet							
Zinc	1.10	U	2.50	mg/kg wet							

LCS (0I20010-BS1) Prepared: 09/20/2010 10:28 Analyzed: 09/21/2010 14:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	12.5		1.00	mg/kg wet	12.5		100	80-120			
Arsenic	24.8		0.500	mg/kg wet	25.0		99	80-120			
Beryllium	12.7		0.0500	mg/kg wet	12.5		102	80-120			
Cadmium	12.6		0.0500	mg/kg wet	12.5		100	80-120			
Chromium	25.1		0.500	mg/kg wet	25.0		100	80-120			
Copper	12.7		0.500	mg/kg wet	12.5		101	80-120			
Lead	25.3		0.500	mg/kg wet	25.0		101	80-120			
Manganese	12.3		0.500	mg/kg wet	12.5		99	80-120			
Nickel	25.3		2.50	mg/kg wet	25.0		101	80-120			
Selenium	24.9	B	0.500	mg/kg wet	25.0		99	80-120			
Silver	12.1		0.500	mg/kg wet	12.5		97	80-120			
Thallium	12.8		0.500	mg/kg wet	12.5		102	80-120			
Zinc	25.7		2.50	mg/kg wet	25.0		103	80-120			

Matrix Spike (0I20010-MS1) Prepared: 09/20/2010 10:28 Analyzed: 09/21/2010 14:26

Source: C010147-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	10.7		1.07	mg/kg dry	13.6	0.118 U	79	75-125			
Arsenic	27.4		0.537	mg/kg dry	27.1	0.528	99	75-125			
Beryllium	13.9		0.0537	mg/kg dry	13.6	0.0129 U	103	75-125			
Cadmium	13.4		0.0537	mg/kg dry	13.6	0.0103 U	99	75-125			
Chromium	29.2		0.537	mg/kg dry	27.1	0.925	104	75-125			
Copper	14.3		0.537	mg/kg dry	13.6	0.454	103	75-125			
Lead	29.6		0.537	mg/kg dry	27.1	0.473	108	75-125			
Manganese	13.8		0.537	mg/kg dry	13.6	0.324	99	75-125			
Nickel	27.4		2.68	mg/kg dry	27.1	0.386 U	101	75-125			
Selenium	27.1	B	0.537	mg/kg dry	27.1	0.207	99	75-125			
Silver	13.0		0.537	mg/kg dry	13.6	0.107 U	96	75-125			
Thallium	14.3		0.537	mg/kg dry	13.6	0.165	104	75-125			
Zinc	27.8		2.68	mg/kg dry	27.1	1.18 U	103	75-125			

Matrix Spike Dup (0I20010-MSD1) Prepared: 09/20/2010 10:28 Analyzed: 09/21/2010 14:28

Source: C010147-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	11.0		1.07	mg/kg dry	13.6	0.118 U	81	75-125	3	20	
Arsenic	27.7		0.537	mg/kg dry	27.1	0.528	100	75-125	1	20	
Beryllium	13.9		0.0537	mg/kg dry	13.6	0.0129 U	102	75-125	0.6	20	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 0I20010 - EPA 3050B

Matrix Spike Dup (0I20010-MSD1) Continued Prepared: 09/20/2010 10:28 Analyzed: 09/21/2010 14:28

Source: C010147-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cadmium	13.3		0.0537	mg/kg dry	13.6	0.0103 U	98	75-125	0.6	20	
Chromium	35.5		0.537	mg/kg dry	27.1	0.925	128	75-125	20	20	QM-07
Copper	14.3		0.537	mg/kg dry	13.6	0.454	102	75-125	0.4	20	
Lead	30.1		0.537	mg/kg dry	27.1	0.473	109	75-125	2	20	
Manganese	13.9		0.537	mg/kg dry	13.6	0.324	100	75-125	1	20	
Nickel	28.5		2.68	mg/kg dry	27.1	0.386 U	105	75-125	4	20	
Selenium	27.0	B	0.537	mg/kg dry	27.1	0.207	99	75-125	0.3	20	
Silver	12.9		0.537	mg/kg dry	13.6	0.107 U	95	75-125	0.3	20	
Thallium	14.2		0.537	mg/kg dry	13.6	0.165	104	75-125	0.5	20	
Zinc	28.3		2.68	mg/kg dry	27.1	1.18 U	104	75-125	2	20	

Post Spike (0I20010-PS1) Prepared: 09/20/2010 10:28 Analyzed: 09/21/2010 14:30

Source: C010147-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.523		0.0200	mg/L	0.500	-0.00192	105	80-120			
Arsenic	1.06		0.0100	mg/L	1.00	0.00994	105	80-120			
Beryllium	0.517		0.00100	mg/L	0.500	0.000201	103	80-120			
Cadmium	0.515		0.00100	mg/L	0.500	9.11E-5	103	80-120			
Chromium	1.06		0.0100	mg/L	1.00	0.0174	104	80-120			
Copper	0.542		0.0100	mg/L	0.500	0.00854	107	80-120			
Lead	1.05		0.0100	mg/L	1.00	0.00890	104	80-120			
Manganese	0.518		0.0100	mg/L	0.500	0.00611	102	80-120			
Nickel	1.03		0.0500	mg/L	1.00	0.00112	102	80-120			
Selenium	1.05	B	0.0100	mg/L	1.00	0.00390	104	80-120			
Silver	0.477		0.0100	mg/L	0.500	-0.00590	97	80-120			
Thallium	0.534		0.0100	mg/L	0.500	0.00310	106	80-120			
Zinc	1.04		0.0500	mg/L	1.00	0.0124	103	80-120			

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 0I13014 - EPA 3005A

Blank (0I13014-BLK1) Prepared: 09/13/2010 09:47 Analyzed: 09/14/2010 11:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.00	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	1.90	U	10.0	ug/L							
Manganese	**4.35**	**J**	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Selenium	2.70	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 0I13014 - EPA 3005A

LCS (0I13014-BS1) Prepared: 09/13/2010 09:47 Analyzed: 09/14/2010 11:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	515		10.0	ug/L	500		103	80-120			
Beryllium	256		1.00	ug/L	250		102	80-120			
Cadmium	253		1.00	ug/L	250		101	80-120			
Chromium	508		10.0	ug/L	500		102	80-120			
Copper	258		10.0	ug/L	250		103	80-120			
Lead	514		10.0	ug/L	500		103	80-120			
Manganese	252	B	10.0	ug/L	250		101	80-120			
Nickel	508		10.0	ug/L	500		102	80-120			
Selenium	534		10.0	ug/L	500		107	80-120			
Silver	260		10.0	ug/L	250		104	80-120			
Zinc	513		10.0	ug/L	500		103	80-120			

Matrix Spike (0I13014-MS1) Prepared: 09/13/2010 09:47 Analyzed: 09/14/2010 12:05

Source: C010139-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	514		10.0	ug/L	500	7.51	101	75-125			
Beryllium	259		1.00	ug/L	250	0.100 U	104	75-125			
Cadmium	242		1.00	ug/L	250	0.360 U	97	75-125			
Chromium	486		10.0	ug/L	500	1.00 U	97	75-125			
Copper	251		10.0	ug/L	250	1.60 U	100	75-125			
Lead	500		10.0	ug/L	500	3.33	99	75-125			
Manganese	11300	B	10.0	ug/L	250	10200	410	75-125			QM-07
Nickel	482		10.0	ug/L	500	1.80 U	96	75-125			
Selenium	532		10.0	ug/L	500	13.4	104	75-125			
Silver	254		10.0	ug/L	250	1.90 U	102	75-125			
Zinc	493		10.0	ug/L	500	5.39	97	75-125			

Matrix Spike Dup (0I13014-MSD1) Prepared: 09/13/2010 09:47 Analyzed: 09/14/2010 12:17

Source: C010139-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	519		10.0	ug/L	500	7.51	102	75-125	0.9	20	
Beryllium	260		1.00	ug/L	250	0.100 U	104	75-125	0.5	20	
Cadmium	251		1.00	ug/L	250	0.360 U	100	75-125	4	20	
Chromium	504		10.0	ug/L	500	1.00 U	101	75-125	4	20	
Copper	260		10.0	ug/L	250	1.60 U	104	75-125	4	20	
Lead	508		10.0	ug/L	500	3.33	101	75-125	2	20	
Manganese	11100	B	10.0	ug/L	250	10200	356	75-125	1	20	QM-07
Nickel	501		10.0	ug/L	500	1.80 U	100	75-125	4	20	
Selenium	542		10.0	ug/L	500	13.4	106	75-125	2	20	
Silver	263		10.0	ug/L	250	1.90 U	105	75-125	3	20	
Zinc	511		10.0	ug/L	500	5.39	101	75-125	4	20	

Post Spike (0I13014-PS1) Prepared: 09/13/2010 09:47 Analyzed: 09/14/2010 12:19

Source: C010139-01

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 0I13014 - EPA 3005A

Post Spike (0I13014-PS1) Continued Prepared: 09/13/2010 09:47 Analyzed: 09/14/2010 12:19

Source: C010139-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.09		0.0100	mg/L	1.00	0.00751	108	80-120			
Beryllium	0.560		0.00100	mg/L	0.500	-3.70E-5	112	80-120			
Cadmium	0.536		0.00100	mg/L	0.500	-0.000550	107	80-120			
Chromium	1.08		0.0100	mg/L	1.00	-0.00352	108	80-120			
Copper	0.556		0.0100	mg/L	0.500	-0.000500	111	80-120			
Lead	1.07		0.0100	mg/L	1.00	0.00333	106	80-120			
Manganese	11.3	B	0.0100	mg/L	0.500	10.2	218	80-120			QM-08
Nickel	1.06		0.0100	mg/L	1.00	5.47E-5	106	80-120			
Selenium	1.13		0.0100	mg/L	1.00	0.0134	112	80-120			
Silver	0.522		0.0100	mg/L	0.500	0.00123	104	80-120			
Zinc	1.09		0.0100	mg/L	1.00	0.00539	108	80-120			

Batch 0I14027 - EPA 3005A

Blank (0I14027-BLK1) Prepared: 09/14/2010 16:20 Analyzed: 09/22/2010 14:27

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (0I14027-BS1) Prepared: 09/14/2010 16:20 Analyzed: 09/22/2010 14:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.8		2.00	ug/L	25.0		111	80-120			
Thallium	27.3		1.00	ug/L	25.0		109	80-120			

Matrix Spike (0I14027-MS1) Prepared: 09/14/2010 16:20 Analyzed: 09/22/2010 14:38

Source: C010140-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.3		2.00	ug/L	25.0	0.220 U	109	75-125			
Thallium	26.4		1.00	ug/L	25.0	0.110 U	106	75-125			

Matrix Spike Dup (0I14027-MSD1) Prepared: 09/14/2010 16:20 Analyzed: 09/22/2010 14:41

Source: C010140-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.4		2.00	ug/L	25.0	0.220 U	109	75-125	0.3	20	
Thallium	26.3		1.00	ug/L	25.0	0.110 U	105	75-125	0.4	20	

Post Spike (0I14027-PS1) Prepared: 09/14/2010 16:20 Analyzed: 09/22/2010 14:45

Source: C010140-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.2		2.00	ug/L	25.0	-0.0100	109	80-120			
Thallium	26.6		1.00	ug/L	25.0	0.0290	106	80-120			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 0I14027 - EPA 3005A

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.
J-01	Result is estimated due to positive results in the associated method blank.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact of the deviation.
QL-02	The associated laboratory control sample exhibited high bias; since the result is ND, the impact on data quality is minimal.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-08	Post-digestion spike did not meet method requirements due to confirmed matrix effects (dilution test).
QS-03	Surrogate recovery outside acceptance limits
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.
QV-02	The associated continuing calibration verification standard exhibited low bias; the reported result should be considered to be a minimum estimate.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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Page 1 of 1

Client Name: S&ME, Inc (SM001)	Project Number: 1054-10-2003
Address: 3201 Spring Forest Road	Project Name/Site: Mary Chappell Site
City, ST, Zip: Raleigh, NC 27616	PO #: Billing Info
Tel: (919) 872-2660 / Fax: (919) 876-3958	Reporting Contact: Ed Wolaszyn
Sampler(s) Name, Affiliation (Print): Gerald Paul S&ME	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Site Location / State: Hamlet, NC

Requested Analyses: 8081B, 8270D + TICs; 8260B + TICs; Ag, As, Ba, Cd, Cr, Cu, Ni, Pb, Sb, Se, Tl, Zn; Hg

Requested Turnaround Times: Note: Rush requests subject to acceptance by the lab

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C010147

Preservation (See Codes) (Complete as necessary)

Item #	Sample ID (Field Sample Number)	Collection Date	Collection Time	Comp / Grab	Matrix (See codes)	Total # of Containers	8081B, 8270D + TICs		8260B + TICs	Ag, As, Ba, Cd, Cr, Cu, Ni, Pb, Sb, Se, Tl, Zn	Hg						Sample Comments
	GP-1 (17-21)	9/9/10	1345	Grab	SO	4	X		X								
	GP-2 (17-21)	9/9/10	1645	↓	SO	4	X		X								
	GP-2 (25-29)	9/8/10	1240	↓	SO	4	X		X								
	GP-3 (13-17)	9/9/10	1250	↓	SO	4	X		X								
					SO	4	X		X								
					SO	4	X		X								
					SO	4	X		X								
	Dup	9/8/10	—	↓	SO	4	X		X								
	Equipment Blank	9/9/10	1800	↓	WA	6		X	X	X	X						
	Trip Blank	—			WA	2			X								No trip blank received. BJG 9/13/10

<- Total # of Containers

Sample(s) Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
BJG	9/1/10	[signature]	730 9/10/10	[signature]	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: 338 3.2°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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