APPENDIX H

UST CLOSURE REPORT
HIGHLANDS ENVIRONMENTAL SOLUTIONS, INC
MAY 22, 2013

Highlands Environmental Solutions, Inc.

8410-D Falls of Neuse Road; Raleigh, NC 27615
Phone: 919-848-3155 / Fax: 919-848-4265 / www.hesnc.com

May 23, 2013

Mr. Mark Powers
NCDENR – Raleigh Regional Office
3800 Barrett Drive
Raleigh, NC 27609

Subject: Submittal of UST Closure Report
Apex Tire and Automotive – Diesel UST Closure
548 E. Williams Street, Apex, Wake County, NC
HES Project #107034

Dear Mr. Powers:

On behalf of Environmental Products and Services of Vermont, Inc. and New Falls Property, LLC, please find enclosed an original copy of our *UST Closure Report* for a diesel fuel UST closure at 548 E. Williams Street, in Apex, North Carolina.

All closure activities have been completed, and all confirmation sample results were less than the State Action Limits. HES does not recommend any further environmental assessments for this tank.

If there are any questions regarding this correspondence, or the project in general, please contact Joe Beaman, P.G. or me at (919) 848-3155.

Sincerely,

Highlands Environmental Solutions, Inc.

Sandra K Miller

Sandra Miller
Project Scientist

Enclosure

cc: Mr. Art Davis – Environmental Products and Services of Vermont, Inc. (2 copies)
File

UNDERGROUND STORAGE TANK CLOSURE REPORT

Southern Tire and Automotive Site
548 E. Williams Street
Apex, Wake County, North Carolina

HES Project Number
107034

Date of Report
May 22, 2013

Prepared for:
New Falls Property, LLC
P.O. Box 3807
Cary, North Carolina 27519

Report Prepared by:

Highlands Environmental Solutions, Inc.

UST Closure Report

A. General Investigation

1. *Site Identification*

Date of Report: May 22, 2013 Date of UST Closure: April 17, 2013
Facility #: not assigned Incident Number (if known): not assigned Site Rank: TBD
Facility Name: New Falls Property, LLC
Facility Address: 548 E. Williams Street
City/Town: Apex Zip Code: 27502 County: Wake
Telephone Number: 919-362-8616
Latitude: 35.724233 N Longitude: -78.847878 W

2. *Contacts Associated with the Facility*

Primary Contact Person: Mr. Zachary Fisher
Address: P.O. Box 3807, Cary, NC 27519 Phone: 919-410-7368

Contractor: Environmental Products and Services of Vermont, Inc.
Address: 405 South Rogers Lane, Raleigh, NC 27610 Phone: 919-852-3595

Consultant: Highlands Environmental Solutions, Inc.
Address: 8410-D Falls of Neuse Road; Raleigh, NC 27615 Phone: 919-848-3155

Analytical Laboratory: Accutest Laboratories, Inc
Address: 4405 Vineyard Road, Suite C-15, Orlando, Florida Phone: 407-425-6700

3. *UST Information*

Tank Number	*Install Date*	*Capacity*	*Dimensions*	*Contents*	*Previous Contents*
#1	unknown	2000-gallon	5'4" x 12'	Diesel Fuel	None

4. *Site Characteristics*

The *Southern Tire and Automotive* ("the site"), located at 548 E. Williams Street, is one of the businesses operating at the Apex Village Shopping Center (500-610 E. Williams Street). This shopping center was recently purchased by New Falls Property, LLC. The 5.74-acre site is located approximately 775 feet west of the intersection of NC 55 and James Street (on the south side of NC 55), in Apex, Wake County, North Carolina. **Figure 1** in **Appendix A** presents a vicinity map of the area and **Figure 2** presents a topographical map of the subject property area.

As part of the due diligence investigation conducted prior to purchasing the subject property, New Falls Property, LLC (New Falls) contracted Mill Creek Environmental Services, Inc. (Mill Creek) of Dawsonville, GA to conduct a Phase I and Phase II Environmental Site Assessment (ESA) of the site (dated January 29, 2013), as well as an Expanded Phase II ESA (dated March 18, 2013). The reports for this investigation document the discovery of two underground storage tanks (USTs) on the site; the 2,000-gallon diesel UST (Tank #1) and a 250-gallon used-oil UST (Tank #2). The UST which is the subject of this report is the diesel fuel UST (Tank #1).

The land use of surrounding properties consists primarily of residential and retail land uses. Apex Middle School is located north of NC Highway 55, opposite the subject property. Minor commercial land uses

are located to the east and southeast of the site. One active retail petroleum outlet is located east south-east of the site.

The site is located in central Wake County, which is situated in the Piedmont Physiographic Province (Piedmont) of North Carolina. The Piedmont is characterized by gently rolling topography and deeply weathered bedrock. Dendritic surface drainage patterns generally allow for good drainage within this region. The region is characterized by a soil veneer derived from weathered rock, or saprolite, which overlies bedrock. The thickness of the saprolitic soil varies considerably between locations, however, it is generally thicker in areas where topographic slope is small, and infiltration from precipitation is abundant. A variety of igneous and metamorphic rocks make up the Piedmont bedrock, which occurs at varying depths, and is typically fractured by jointing and faulting. Joints are most abundant at shallow depths in the bedrock where overburden pressures are minimal; whereas faults commonly extend to considerable depths.

Geologically, the Piedmont is divided into a series of northeast-southwest trending "belts" which are generally defined as "...areas of regionally metamorphosed rocks delineated and characterized on the basis of their metamorphism." (Metamorphism typically refers to a broad re-crystallization of igneous and sedimentary rocks under various levels or "grades" of intense heat and pressure). Based on a review of the 1985 *Geologic Map of North Carolina*, the property is located in a region of the Piedmont identified as "the Raleigh Belt". The region is situated between lesser grade metamorphic belts identified as the Carolina Slate Belt on the west, and the Eastern Slate Belt on the east. The Raleigh Belt is typified by Cenozoic-age (up to 65 million years old) biotite mica gneisses and schists (metamorphic rocks) intruded with numerous granite sills and dikes, and granite pegmatites (igneous rocks). Although not determined during this assessment, the depth to bedrock in the immediate area typically ranges from approximately 15 to 30 feet below grade.

Groundwater occurs within two distinct water-bearing units in the subsurface in the vicinity of the site. The initial water-bearing unit is the surficial aquifer. Within the surficial aquifer, groundwater movement is facilitated through pore spaces between soil particles. The direction of groundwater movement typically mirrors surface topography, as flow is generally in response to gravity. The second water-bearing unit is the bedrock aquifer. In the bedrock aquifer, groundwater may be found in bedrock fractures and/or cavities. Groundwater movement in the bedrock unit is controlled by fracture orientation and connectivity, and is not necessarily controlled by gravity. The two aquifers may or may not be locally interconnected depending on local conditions. Groundwater was not encountered during UST closure activities. Based on experience with other environmental investigations in the area, the estimated depth to groundwater beneath the site is 15 feet (or greater) below grade.

Discharge of stored groundwater occurs primarily as baseflow to surface water bodies, and/or discharge from "springs." Hydraulic conductivity values for the surficial aquifer range from less than one to several feet per day, while values for fractured rock vary greatly.

B. UST Closure Procedures

Mill Creek contracted Environmental Products and Services of Vermont, Inc. (EPS of VT) for underground tank (UST) removal services associated with this tank. EPS of VT then contracted Highlands Environmental Solutions, Inc. (HES) for environmental oversight, sampling, and reporting services. Prior to beginning closure activities, EPS of VT contacted the North Carolina One-Call Center to identify subsurface utilities on the property, and prepared a site-specific health and safety plan (HASP) to ensure personnel safety while onsite. HES completed and submitted a UST-3 Form (Notice of Intent: UST Permanent Closure or Change in Service) to the North Carolina Department of Environment and Natural Resources (NCDENR) on April 11, 2013, prior to UST closure activities. Additionally, HES contacted Mr. David Dillon, Deputy Fire Marshal of the Town of Apex, to complete and submit the appropriate forms and fees for removal of the two tanks on April 15, 2013. Copies of the UST-3 Form and the Fire Permit form are included in **Appendix B**. This closure report specifically addresses the 2,000-gallon diesel tank (Tank #1). The activities associated with Tank #2 are addressed in a separate report.

Personnel from EPS of VT and HES mobilized to the site on April 18, 2013 to commence UST removal activities. EPS of VT provided equipment and labor for soil excavation and tank removal.

Tank #1 was located at the approximate coordinates 35.724233 N and -78.847878 W (northwest corner of the shopping mall building). The excavation area was covered with concrete and/or asphalt, which was removed prior to UST closure activities. Excavation was initiated adjacent to the building and, once the paving was removed in the immediate area, measured approximately 17 feet long by 12 feet wide. The fill port for Tank #1 was discovered during removal of the paved surface. Prior to UST removal, overburden soil was removed from the top and sides of the USTs. The depth to the top of Tank #1 was approximately three feet below grade. With the exception of the fill pipe, neither dispensers nor piping were encountered during UST closure activities.

After the top of the former UST was exposed, the remaining liquids were removed using a vacuum truck; and the tank was ventilated. The liquids which were recovered from Tank #1 were transported to the EPS of VT facility in Raleigh, NC for proper treatment and disposal. Following ventilation, EPS of VT personnel measured the oxygen level using a Q-Ray LEL Meter with a tube which was lowered into the UST to confirm that oxygen levels were less than 5%. The UST and vapor purge information was inspected by Mr. David Dillon, Deputy Fire Marshall for the Town of Apex.

During overburden removal, the soil was evaluated for evidence of petroleum impacts (i.e., staining, etc.). Native soil primarily consisted of reddish brown silty clay and some reddish brown-orange sand from 0 to approximately 10 feet below grade. Evidence of petroleum impacts was not observed. Additionally, random soil samples were collected and field screened for total volatiles using a MiniRAE 2000 photoionization detector (PID), calibrated to a 100 parts per million (ppm) isobutylene standard following manufacturer's instructions. Total volatiles concentrations in the field screening samples did not exceed 10 ppm during field screening. As the soils were excavated, they were temporarily placed on plastic sheeting. Once the internal atmosphere of the UST was determined to be at acceptable levels, the metal tank was removed from the ground and placed on plastic prior to being transported to Raleigh Metal Recycling, in Raleigh, North Carolina on April 17, 2013. The approximate total depth of the excavation was 10 feet below ground surface.

Once the tank was removed, all adhered soil was removed, and the UST was visually examined to document its condition. The steel UST was noted to be in excellent condition, and no pitting, corrosion, or other damage was noted. Select photographs of site activities and tank conditions are included in **Appendix C**.

Following removal of the UST, additional soil in the base of the excavation was removed. Groundwater was not encountered during excavation activities. Bedrock was not encountered during UST removal activities. Because evidence of petroleum impact was not detected, soil excavated from the UST basin prior to UST removal was used to backfill the excavation. Additional backfill material was obtained from a clean off-site source.

C. Site Investigation

As noted earlier, random soil samples were collected during excavation activities. Native soil primarily consisted of reddish brown silty clay and some reddish brown-orange sand from 0 to approximately 10 feet below grade. During overburden removal, the soil was evaluated for evidence of petroleum impacts (i.e., staining, etc.). Evidence of petroleum impacts was not observed. The random soil samples were collected and field screened. To field screen the soil samples, an aliquot of soil was placed in a clean, labeled, zip-lock bag and allowed to volatilize in direct sunlight for approximately 10 minutes. At the end of the volatilization period, the headspace in the sample bags was sampled for total volatiles using the PID. Total volatiles concentrations in the field screening samples did not exceed 10 ppm during field screening.

Following removal of Tank #1, two soil samples were collected from the native soil beneath the former UST. Samples T1 NF and T1 SF were collected from a depth approximately 1.5 feet beneath the former diesel fuel UST. Following collection, the samples were split into two aliquots. The first aliquot was placed in labeled, laboratory-supplied containers, and maintained on ice pending shipment (via overnight courier) to the analytical laboratory. The second aliquot was placed in a labeled, zip-lock bag for field screening purposes. Total volatile concentrations were approximately 10 ppm. Both samples submitted for laboratory analysis were shipped on ice and under proper chain of custody procedures to a State of North Carolina-certified laboratory, Accutest Laboratories Southeast in Orlando, Florida (Accutest – NC Certification # 573) for laboratory analysis of gasoline range organics (GRO) and diesel range organics (DRO), by Method 5035/8015C.

Laboratory analysis of the post-closure soil samples did not result in the detection of petroleum constituents at concentrations greater than the State Action Limit of 10 mg/Kg. Surrogate recoveries for analytical "standards" were relatively consistent across the samples, and all were within acceptable limits. Furthermore, analysis of method blanks and matrix spike duplicate samples were within acceptable limits. The UST information and the UST owner/operator information are included in **Table 1** and **Table 2**, respectively; in **Appendix D**. Laboratory analytical and field screening data are summarized on **Table 3**. A copy of the complete laboratory analytical data report is included in **Appendix E**. Sample collection locations are depicted on **Figure 4**. Disposal documentation for the residual tank liquids and the metal tank is included in **Appendix F**. Neither groundwater nor bedrock was encountered during UST closure activities.

D. Conclusions and Recommendations

On April 17, 2013, one 2,000-gallon diesel UST system was closed by removal at 548 E. Williams Street in Apex, Wake County, North Carolina. The former UST was described as being in excellent condition, and evidence of petroleum releases from the UST was not observed. Laboratory analysis of post-closure soil samples collected beneath the former USTs did not result in the detection of residual petroleum constituents at concentrations greater than their respective State Action Limit of 10 mg/Kg.

A UST-2 (Site Investigation Report) for the UST closure is included in **Appendix G**. Based on the results of this investigation, HES concludes that a release of petroleum did not occur from the former USTs. As such, HES does not recommend additional environmental assessment and/or remediation at the subject site, and recommends that a letter documenting "No Further Action Required" be forwarded to New Falls Property, LLC for this UST closure.

E. Certification

Highlands Environmental Solutions, Inc. (HES) has performed the investigation documented in this report in a professional manner using generally accepted environmental practices. This report shall not be construed to create any warranty regarding the property on which the investigation was conducted. This report is a representation and presentation of the findings and conclusions of HES based upon observations made at the time of site reconnaissance visits; personal interviews; research of available documents (records, maps, etc.) held by the appropriate government and private agencies; and and/or analytical data for samples collected during the course of the investigation. This report is subject to the limitation of historical documentation, and the availability and accuracy of pertinent records. HES shall not be responsible for conditions, or consequences, arising from relevant facts that were concealed, withheld or not fully disclosed to HES at the time the investigation was performed.

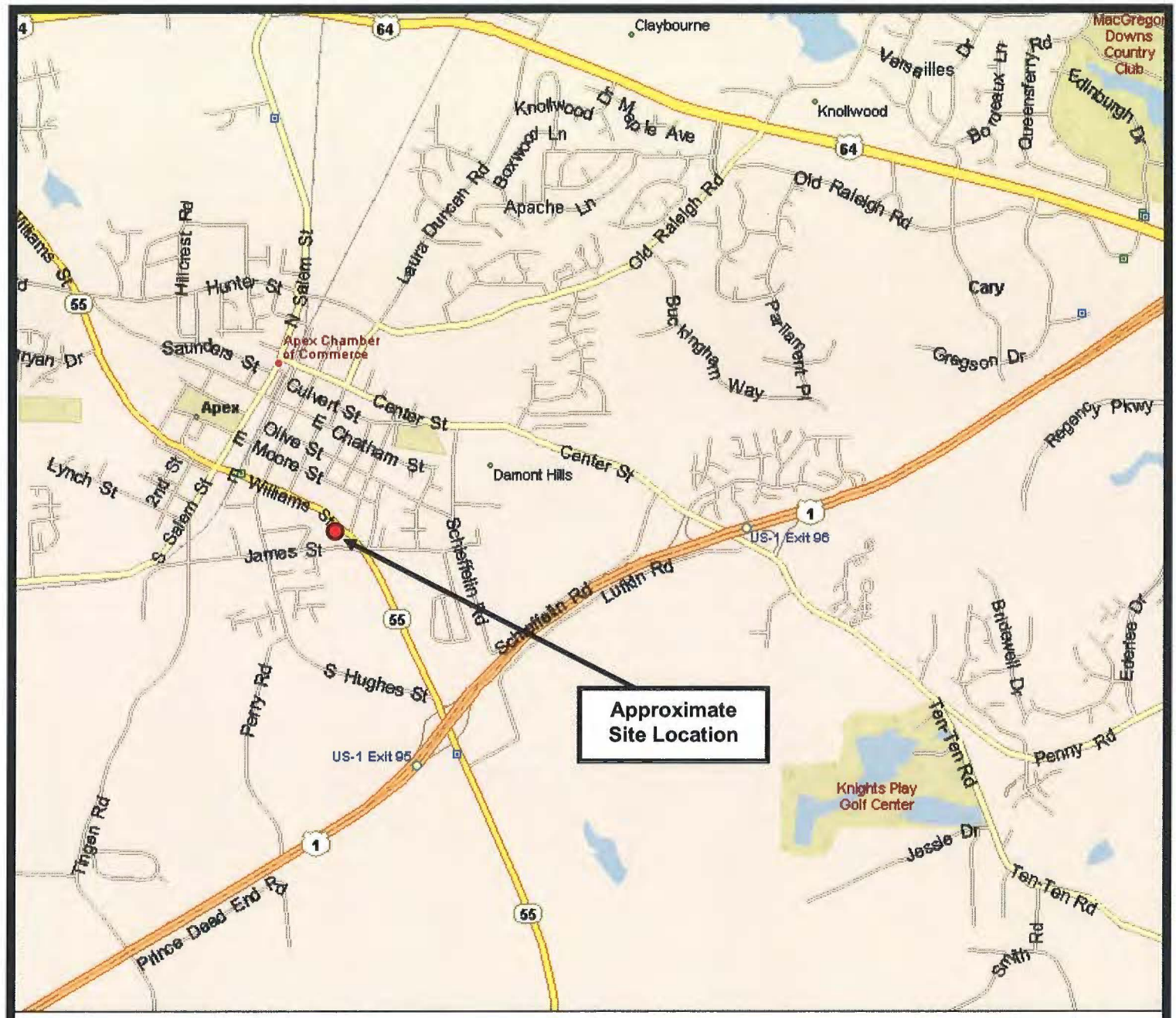
This report is intended solely for the use of New Falls Property, LLC; Environmental Products and Services of Vermont, Inc.; Mill Creek Environmental Services, Inc.; the North Carolina Department of Environment and Natural Resources; and their agents and consultants. The information provided in this report is relevant to the dates of our site and research activities, and should not be relied upon to represent conditions at future dates. This investigation was performed in a manner such as to fulfill the requirements of a UST Closure.

With reference to the applicable technical requirements of 15 NCAC 2L .0115, and pursuant to 15A NCAC 2L .0103(e), I certify that the work described herein has been performed in accordance with industry standards and practices by me, or under my direct supervision.

Highlands Environmental Solutions, Inc.

Bobby J. Beaman, P.G., RSM
Principal Geologist
NC Licensed Geologist #1468

NORTH CAROLINA
LICENSED
5/21/2013
SEAL
1468
GEOLOGIST
BOBBY JOE BEAMAN



Site Location Diagram

Approximate Scale

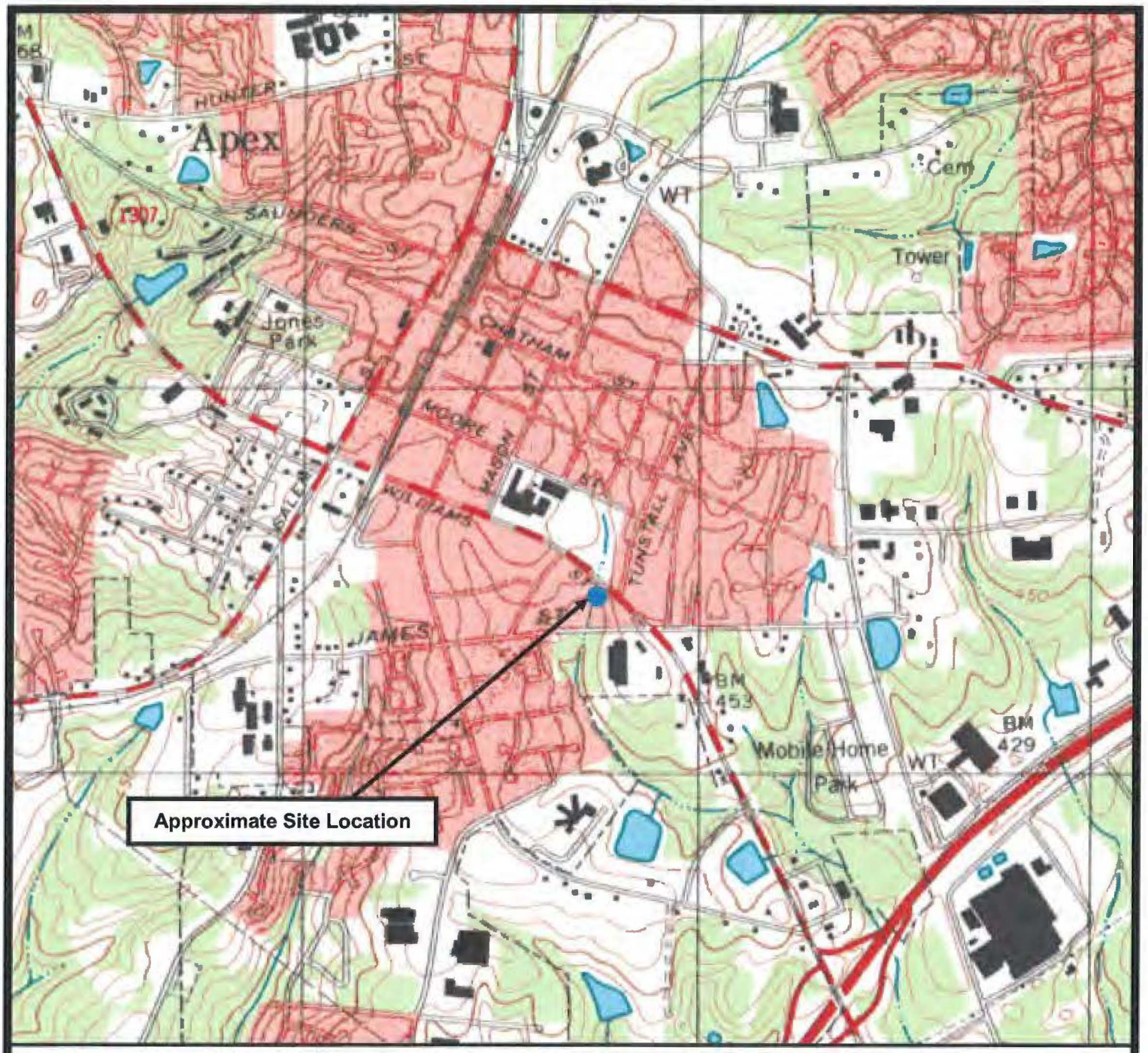
0 — 0.4 — 0.8
Miles

N

Source: Microsoft Streets and Trips 2002

Highlands Environmental Solutions, Inc.

Project Name Southern Tire and Automotive – UST Closure 548 E. Williams Street, Apex, Wake County, NC		
Client EPS of VT / New Falls Property, LLC		
Project # 107034		*Drawn by* SM
Approximate Scale As Shown	*Date* May 2013	*Fig. #* 1



Site Location Topographic Diagram

N

Approximate Scale

0 0.2 0.4
Miles

Base diagram from Apex, NC
7.5 Minute Topographic Quadrangle; 2002;
1:24,000

Highlands Environmental Solutions, Inc.

Project Name Southern Tire and Automotive – UST Closure 548 E. Williams Street, Apex, Wake County, NC		
Client EPS of VT / New Falls Property, LLC		
Project # 107034		*Drawn by* SM
Scale As Shown	*Date* May 2013	*Fig. #* 2

Site Aerial Diagram

Approximate Scale

0 — 67 — 134

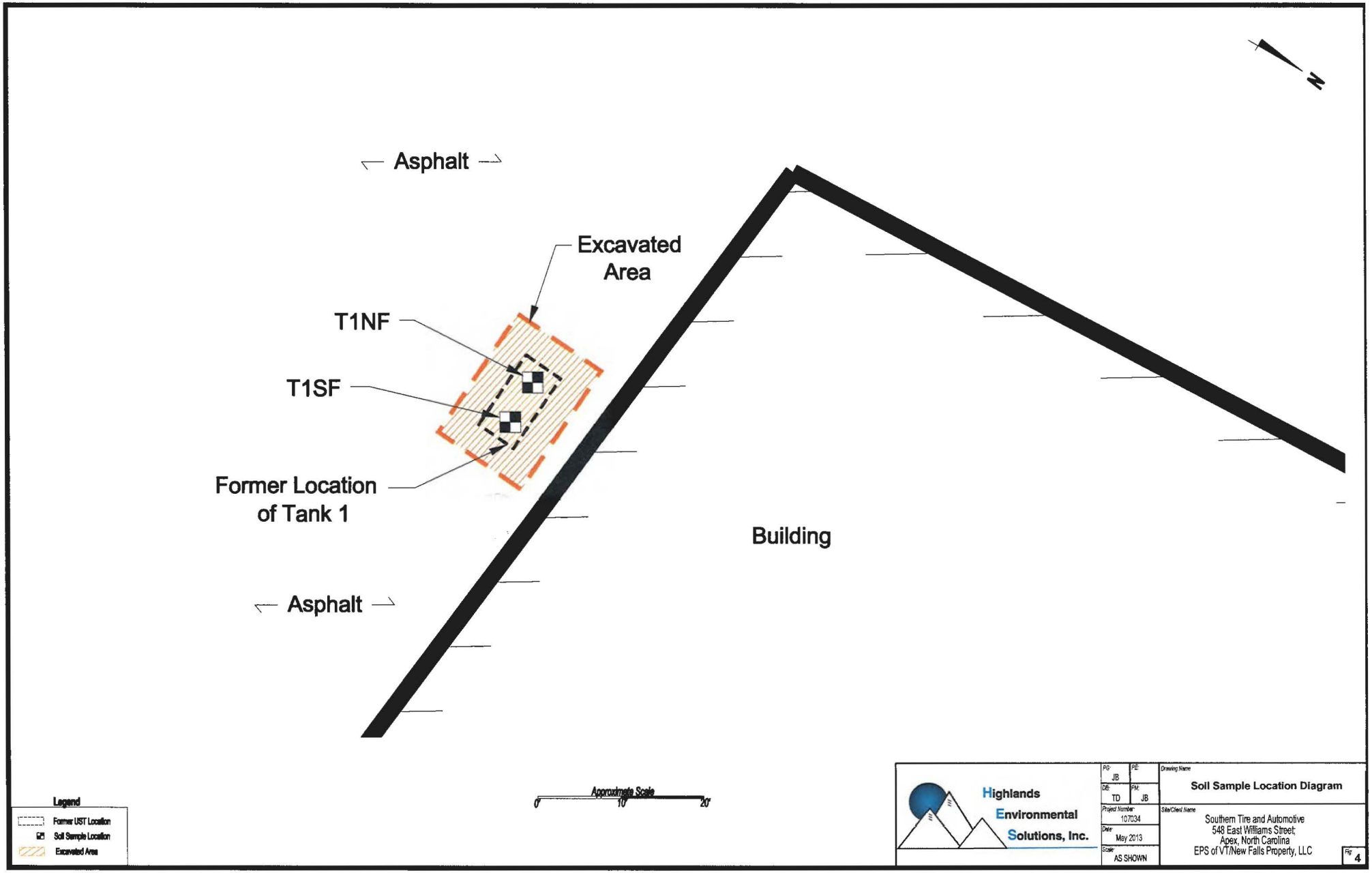
Feet

N

Source: Google Earth, Image Date 7/5/2010

Highlands Environmental Solutions, Inc.

Project Name Southern Tire and Automotive – UST Closure 548 E. Williams Street, Apex, Wake County, NC		
Client EPS of VT / New Falls Property, LLC		
Project # 107034		*Drawn by* SM
Approximate Scale As shown	*Date* May 2013	*Fig. #* 3


Asphalt
Excavated Area
T1NF
T1SF
Former Location of Tank 1
Building
Asphalt
N
Approximate Scale
0'
10'
20'
Legend
Former UST Location
Soil Sample Location
Excavated Area
Highlands Environmental Solutions, Inc.
PG: JB
PE:
DB: TD
PM: JB
Project Number: 107034
Date: May 2013
Scale: AS SHOWN
Drawing Name
Soil Sample Location Diagram
Site/Client Name
Southern Tire and Automotive
548 East Williams Street;
Apex, North Carolina
EPS of VT/New Falls Property, LLC
Fig: 4

Appendix B

Regulatory Notifications and Permits

Highlands Environmental Solutions, Inc.

8410-D Falls of Neuse Road; Raleigh, NC 27615
Phone: 919-848-3155 / Fax: 919-848-4265 / www.hesnc.com

April 11, 2013

Mr. Mark Powers
NCDENR – Raleigh Regional Office
3800 Barrett Drive
Raleigh, North Carolina 27609

Subject: Submittal of Notice of Intent: UST Permanent Closure or Change-in-Service – UST-3
Southern Tire Store
548 East Williams Street, Apex, Wake County, NC
HES Project #107034

Dear Mr. Powers:

On behalf of Southern Tire Store, please find enclosed the original copy of our *Notice of Intent: UST Permanent Closure or Change-in-Service – UST-3 Form* for the closure of UST systems at 548 East Williams Street, Apex, Wake County, NC. The removal activities are tentatively scheduled for Thursday April 18, 2013.

If there are any questions regarding this correspondence, or the project in general, please contact me at (919) 848-3155.

Sincerely,

Highlands Environmental Solutions, Inc.

Sandra Miller

Sandra Miller
Project Scientist

Enclosure

cc: Mr. Art Davis – Environmental Products and Services of Vermont, Inc.
File

UST-3 Notice of Intent: UST Permanent Closure or Change-in-Service

Return completed form to:
The DWM Regional Office located in the area where the facility is located. Send a copy to the Central Office in Raleigh so that the status of the tank may be changed to "PERMANENTLY CLOSED" and your tank fee account can be closed out.
SEE MAP ON THE BACK OF THIS FORM FOR THE CENTRAL AND REGIONAL OFFICE ADDRESSES.

STATE USE ONLY
I.D. #_____
Date Received_____

INSTRUCTIONS (READ THIS FIRST)

Complete and return at least **thirty (30) days** prior to closure or change-in-service activities. If a Professional Engineer (P.E.) or a Licensed Geologist (L.G.) provides supervision for closure or change-in-service site assessment activities and signs and seals all closure reports then at least a **five (5) working days** notice is acceptable.

Completed UST closure or change-in-service site assessment reports, along with a copy of the UST-2 form, should be submitted to the appropriate Division of Waste Management (DWM) Regional Office within thirty (30) days following closure activities. The UST-2 form should also be submitted to the Central Office in Raleigh so that the status of the tanks may be changed to permanently closed and your tank fee account can be closed out.

UST closure and change-in-service site assessments must be completed in accordance with the latest version of the *Guidelines for Tank Closure*. The *Guidelines for Tank Closure* can be obtained at www.wastenotnc.org.

You must make sure that USTs removed from your property are disposed of properly. When choosing a closure contractor, ask where the tank(s) will be taken for disposal. Usually, USTs are cleaned and cut up for scrap metal. This is dangerous work and must be performed by a qualified company. Tanks disposed of illegally in fields or other dumpsites can leak petroleum products and sludge into the environment. If your tanks are disposed of improperly, you could be held responsible for the cleanup of any environmental damage that occurs.

I. OWNERSHIP OF TANKS

Owner Name (Corporation, Individual, Public Agency, or Other Entity) Southern Tire Store	
Street Address 548 East Williams Street	
City Apex	County Wake
State NC	Zip Code 27502
Phone Number 919-362-8616	

II. LOCATION

Facility Name or Company Southern Tire Store		
Facility ID # (If known) NA		
Street Address 548 East Williams Street		
City Apex	County Wake	Zip Code 27502
Phone Number 362-8616		

III. CONTACT PERSONNEL

Name:	Company Name:	Job Title:	Phone Number:
Sandy Miller	Highlands EnvironmentalSolutions	Project Scientist	848-3155

IV. TANK REMOVAL, CLOSURE IN PLACE, CHANGE-IN SERVICE

1. Contact local fire marshal.
2. Plan entire closure event.
3. Conduct Site Soil Assessment.
4. If removing tanks or closing in place, refer to API Publication 2015 *Cleaning Petroleum Storage Tanks* and 1604 *Removal and Disposal of Used Underground Petroleum Storage Tanks.*
5. Provide a sketch locating piping, tanks and soil sampling locations.
6. Submit a closure report in the format of UST-12 (including the form UST-2) within thirty (30) days following the site investigation.
7. If a release from the tanks has occurred, the site assessment portion of the tank closure must be conducted under the supervision of a P.E. or L.G., with all closure site assessment reports bearing the signature and seal of the P.E. or L.G. If a release has not occurred, the supervision, signature or seal of a P.E. or L.G. is not required.
8. Keep closure records for three (3) years.

V. WORK TO BE PERFORMED BY

Contractor Name: Art Davis	Contractor Company Name: Environmental Products and Services of Vermont, Inc.		
Address: 405 South Rogers Lane, Raleigh	State: NC	Zip Code: 27610	Phone No: 919-909-1227
Primary Consultant Name: Sandy Miller	Primary Consultant Company Name: Highlands EnvironmentalSolutions		Consultant Phone No: 919-848-3155

VI. TANKS SCHEDULED FOR CLOSURE OR CHANGE-IN-SERVICE

			Proposed Activity		
			Closure		Change-In-Service
Tank ID No.	Size in Gallons	Last Contents	Removal	Abandonment in Place *	New Contents Stored
1	250	Oil	☒	☐	
2	2000	Dielsel, Dielsel Mix	☒	☐	
			☐	☐	
			☐	☐	
			☐	☐	

* Prior written approval to abandon a tank in place must be received from a DWM Regional Office.

VII. OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE

I understand that I can be held responsible for environmental damage resulting from the improper disposal of my USTs.

Print name and official title: Sandra Miller, HES Project Scientist

Signature	Date Signed	SCHEDULED REMOVAL DATE	Notify your DWM Regional Office 48 hours before this date if scheduled removal date changes
Sandra K Miller	4-10-13	4/17/2013	

North Carolina Department of Environment and Natural Resources

Division of Waste Management
UST Section Central Office
1637 Mail Service Center
Raleigh, NC 27699-1637
(919) 707-8171 FAX (919) 715-1117
www.wastenotnc.org

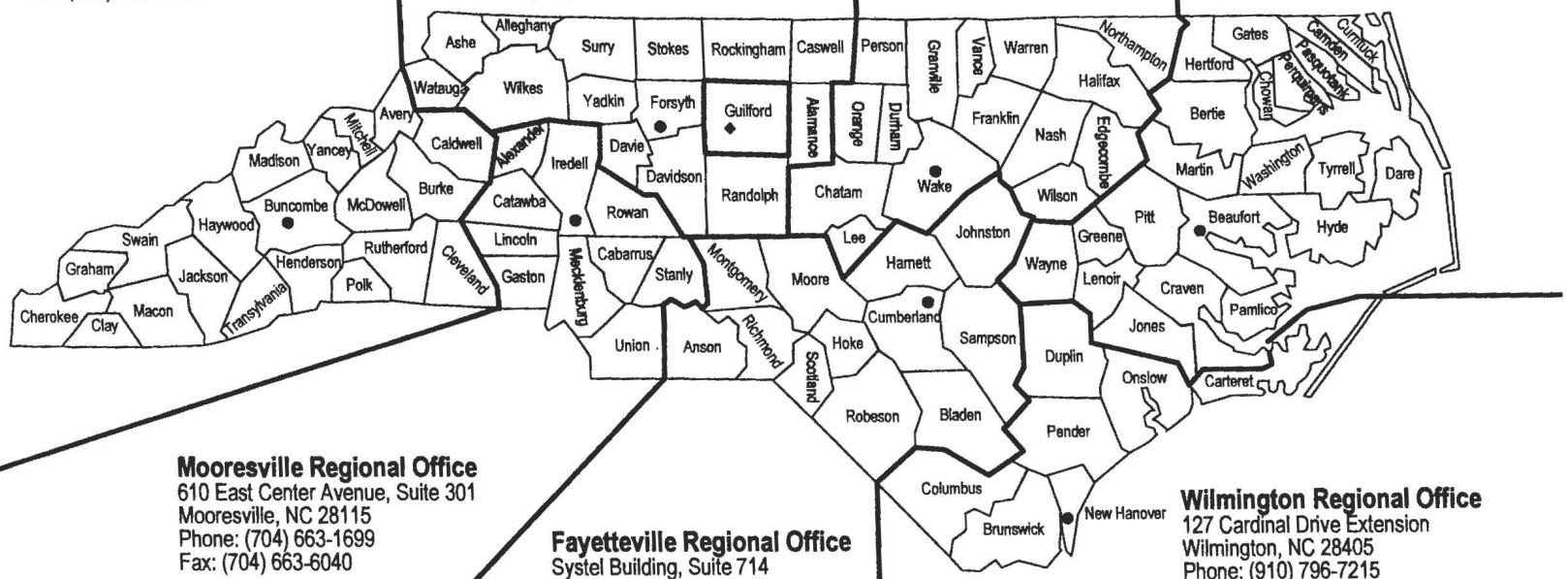
Asheville Regional Office
2090 U.S. Highway 70
Swannanoa, NC 28778
Phone: (828) 296-4500
Fax: (828) 299-7043

Winston-Salem Regional Office
585 Waughtown Street
Winston-Salem, NC 27107
Phone: (336) 771-5000
Fax: (336) 771-4632

Guilford County Dept. of Public Health
1203 Maple Street
Greensboro, NC 27405
Phone: (336) 641-3771
Fax: (336) 641-4812

Raleigh Regional Office
3800 Barrett Drive
Raleigh, NC 27609
Phone: (919) 791-4200
Fax: (919) 571-4718

Washington Regional Office
943 Washington Square Mall
Washington, NC 27889
Phone: (252) 946-6481
Fax: (252) 975-3716



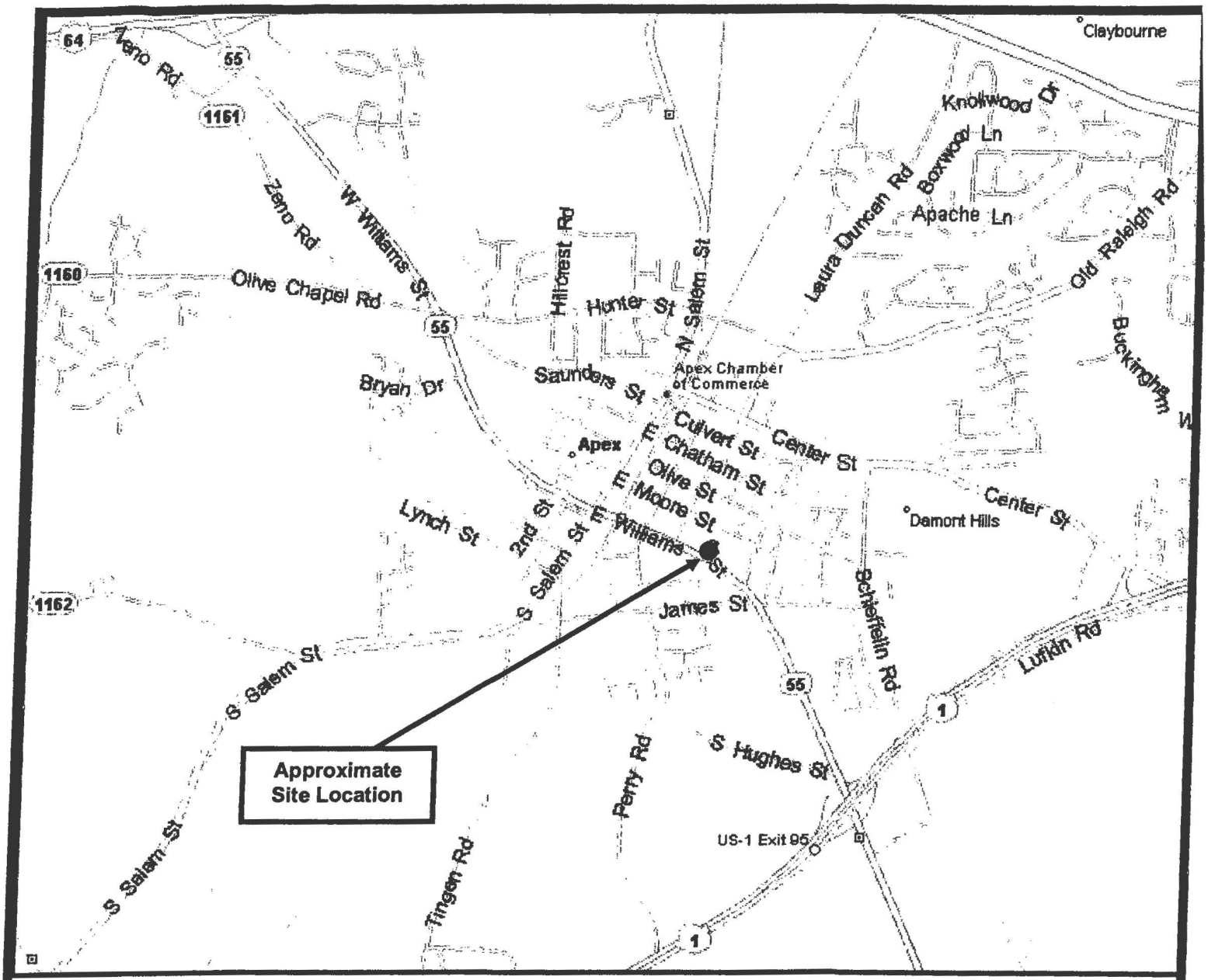
Mooresville Regional Office
610 East Center Avenue, Suite 301
Mooresville, NC 28115
Phone: (704) 663-1699
Fax: (704) 663-6040

Fayetteville Regional Office
Systel Building, Suite 714
225 Green Street
Fayetteville, NC 28301
Phone: (910) 433-3300
Fax: (910) 486-0707

Wilmington Regional Office
127 Cardinal Drive Extension
Wilmington, NC 28405
Phone: (910) 796-7215
Fax: (910) 350-2004

● Regional Office

8/06



Site Location Diagram

N

Approximate Scale

0 — 0.45 Miles — 0.9

Source: Microsoft Streets and Trips 2002

Highlands Environmental Solutions, Inc.

Project Name UST Closure - Southern Tire Store 548 East Williams Street, Apex, Wake County, NC		
Client EPS of Vermont		
Project # 107034		*Drawn by* SM
Approximate Scale As Shown	*Date* April 2013	*Fig. #* 1

Highlands Environmental Solutions, Inc.

8410-D Falls of Neuse Road; Raleigh, NC 27615
Phone: 919-848-3155 / Fax: 919-848-4265 / www.hesnc.com

April 15, 2013

Mr. David L. Dillon, CFI
Town of Apex, Deputy Fire Marshall
736 Hunter Street
Apex, North Carolina 27502

Subject: Submittal of Request: UST Permanent Closure by Removal
Southern Tire Store
548 East Williams Street, Apex, Wake County, NC
HES Project #107034

Dear Mr. Dillon:

On behalf of Environmental Products and Services of Vermont, Inc. (EPS of VT) and Southern Tire Store, Highlands Environmental Solutions, Inc. (HES) is submitting this request for permission to remove two underground storage tanks (USTs) from the property at 548 East Williams Street.

The site activities are detailed in the attached cost estimate (the costs have been removed to maintain confidentiality). The removal activities are tentatively scheduled for either Wednesday April 17, 2013 or Thursday April 18, 2013. Wednesday would be preferable it that worked into your schedule.

If there are any questions regarding this correspondence, or the project in general, please contact me at (919) 848-3155.

Sincerely,

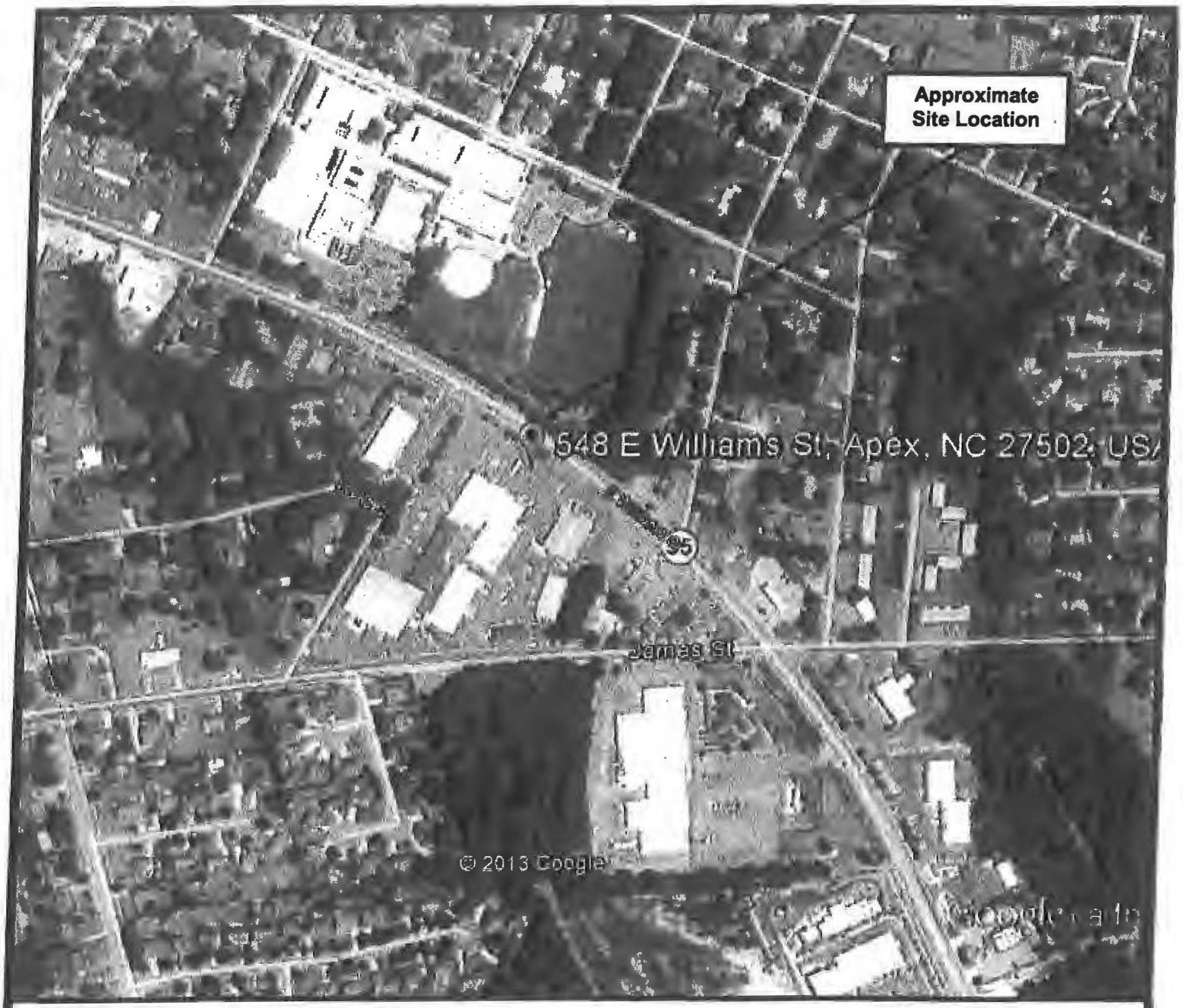
Highlands Environmental Solutions, Inc.

Sandra K Miller

Sandra Miller
Project Scientist

Attachement

cc: Mr. Art Davis – Environmental Products and Services of Vermont, Inc.
File



Site Location Diagram

N

Approximate Scale

0 350 700
Feet

Source: Google Maps, Imagery Date 7/5/2010

Highlands Environmental Solutions, Inc.

Project Name UST Closure - Southern Tire Store 548 East Williams Street, Apex, Wake County, NC		
Client EPS of Vermont		
Project # 107034		*Drawn by* SM
Approximate Scale As Shown	*Date* April 2013	*Fig. #* 1

TOWN OF APEX

UNDERGROUND STORAGE TANK (UST) REMOVAL PERMIT

This permit is issued to __Highlands Environmental Solutions, Inc.__ for the removal of two underground storage tank(s) at the address of 548 East Williams Street, Apex, NC on the date(s) of April 18, 2013.

This permit's validity is contingent upon the strict adherence to the American Petroleum Institute's Recommended Practice on the Removal and Disposal of Used Underground Petroleum Storage Tanks (API Recommended Practice 1604). Any deviance from API Recommended Practice 1604 without prior approval of the Fire Official **shall** render this permit invalid. In conjunction with API 1604, certain safety precautions must be adhered to before removal of the tank(s), including but not limited to:

- A **lower explosive limit** (LEL) of **20% or below** must be obtained in the tank. If oxygen is being displaced from the tank atmosphere, there must be **less than 5% by volume of oxygen** in the tank. Readings should be taken from the bottom, middle, and upper portions of the tank.
- There must not be more than 1" of product inside the tank prior to removal.
- A readily available fire extinguisher must be provided on the site.
- Signs stating "No Smoking" must be posted around the perimeter of the site.

After removal of the tank(s), the tank(s) must be labeled in accordance with API 1604.

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
Size	250 gal	2000 gal				
Product	used oil	diesel				

Method of Vapor Removal:

☐ CO_2 or N_2 ☐ Dry Ice

X Air (Eductor-type or Diffuser) ☐ Other:_____

This permit does not insure compliance with those regulations set forth by any other agency. It is the responsibility of the permit holder to contact all appropriate agencies for any other applicable permits and/or procedures.

Sandra Miller HES — 4-15-2013

REPRESENTATIVE OF PERMITTEE — DATE

TOWN OF APEX FIRE OFFICIAL — 4-17-13

DATE

Appendix C

Selected Site Photographs

Photograph Number 1: Location of Tank #1 on northwest corner of building.

Photograph Number 2: Tank #1, continuing excavation (note fill pipe in center of photo).

Photograph Number 3: Tank #1 top exposed.

Photograph Number 4: Tank #1 being removed from the excavation.

Photograph Number 5: Tank #1 excavation.

Photograph Number 6: Tank #1 excavation backfilled with native soils an imported clean fill.

Photograph Number 7: Tank #1 with vent hole cut, and awaiting transportation.

Appendix D

Tables

Table 1

Southern Tire and Automotive
548 E. Williams Street Street - Apex, North Carolina
HES Project #107034

Underground Storage Tank Information

Tank Number	*Status*	*Installation Date*	*Size In Gallons*	*Tank Dimensions*	*Last Contents*
1	Closed	Unknown	2,000	5'4" x 12'	Diesel
2	Closed	Unknown	250	3' x 7.5'	Used Oil

Table 2

Southern Tire and Automotive
548 E. Williams Street - Apex, North Carolina
HES Project #107034

Site History
UST Owner/Operator Information

UST ID Number	Name of Owner or Operator	Dates of Ownership/Operation	Owner or Operator
1	New Falls Property, LLC	Unknown-present	Owner
Address		**Telephone Number**	
Box 3807; Cary, NC 27519		919-410-7368	
UST ID Number	**Name of Owner or Operator**	**Dates of Ownership/Operation**	**Owner or Operator**
2	Southern Tire and Automotive	Unknown-present	Operator
Address		**Telephone Number**	
illiams Street; Apex, NC 27502		919-362-8616	

Table 3

Southern Tire and Automotive
548 E. Williams Street, Apex, NC
HES Project #107034

Summary of Soil Analytical Data

Analytical Method →			Field	8015C	8015C
Sample ID	Constituent of Concern →		PID Screening Results (ppm)	TPH-GRO (C6-C10) (mg/Kg)	TPH-DRO (C10-C28) (mg/Kg)
	Date Collected	Approximate Depth of Collection (feet)			
T1SF	4/17/2013	8.5	10.5	ND	ND
T1NF	4/17/2013	8.5	10.3	ND	ND
State Action Limit (mg/Kg)			-	10	10

Notes: *mg/Kg denotes "milligrams per kilogram"*
ND denotes "not detected"
ppm denotes "parts per million"

Appendix E

Laboratory Analytical Data Report and Chain of Custody

Southeast ACCUTEST LABORATORIES

04/30/13

Technical Report for

EPS of Vermont, Inc

Southern Tire Store Apex; 548 E Williams St, NC

M3118

Accutest Job Number: FA3839

Sampling Date: 04/17/13

Report to:

Demo Account (BR)

brentr@accutest.com

ATTN: Brent Rader

Total number of pages in report: **133**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

EPS of Vermont, Inc

Job No: FA3839

Southern Tire Store Apex; 548 E Williams St, NC
Project No: M3118

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA3839-1	04/17/13	11:20 SM	04/19/13	SO	Soil	T1SF
FA3839-2	04/17/13	11:24 SM	04/19/13	SO	Soil	T1NF
FA3839-3	04/17/13	16:00 SM	04/19/13	SO	Soil	T2F
FA3839-4	04/17/13	17:00 SM	04/19/13	SO	Soil	T2 E SW
FA3839-5	04/17/13	17:40 SM	04/19/13	SO	Soil	T2 E WW
FA3839-6	04/17/13	17:47 SM	04/19/13	SO	Soil	T2 EF
FA3839-7	04/17/13	17:57 SM	04/19/13	SO	Soil	T2 E NW
FA3839-8	04/17/13	18:12 SM	04/19/13	SO	Soil	T2 E EW
FA3839-9	04/17/13	19:00 SM	04/19/13	SO	Soil	DISP
FA3839-9L	04/17/13	19:00 SM	04/19/13	SO	Soil	DISP

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

2

Summary of Hits

Job Number: FA3839
Account: EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC
Collected: 04/17/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA3839-1	**T1SF**					
No hits reported in this sample.						
FA3839-2	**T1NF**					
No hits reported in this sample.						
FA3839-3	**T2F**					
TPH-GRO (C6-C10)		12.3	6.5	3.2	mg/kg	SW846 8015C
TPH (C10-C28) [a]		1330	220	87	mg/kg	SW846 8015C
Chromium		19.0	0.56	0.10	mg/kg	SW846 6010C
Lead		78.4	1.1	0.062	mg/kg	SW846 6010C
FA3839-4	**T2 E SW**					
Acetone		0.0985	0.041	0.016	mg/kg	SW846 8260B
n-Butylbenzene		0.0092	0.0041	0.0011	mg/kg	SW846 8260B
sec-Butylbenzene		0.0038 J	0.0041	0.00099	mg/kg	SW846 8260B
Isopropylbenzene		0.0018 J	0.0041	0.0011	mg/kg	SW846 8260B
Naphthalene		0.0814	0.0041	0.0016	mg/kg	SW846 8260B
n-Propylbenzene		0.0057	0.0041	0.00084	mg/kg	SW846 8260B
1,2,4-Trimethylbenzene		0.0024 J	0.0041	0.00088	mg/kg	SW846 8260B
bis(2-Ethylhexyl)phthalate		0.138 J	0.41	0.041	mg/kg	SW846 8270D
1-Methylnaphthalene		0.0620 J	0.21	0.028	mg/kg	SW846 8270D
Naphthalene		0.0273 J	0.21	0.021	mg/kg	SW846 8270D
Pyrene		0.0293 J	0.21	0.021	mg/kg	SW846 8270D
C19-C36 Aliphatics		426	50	25	mg/kg	MADEP EPH REV 1.1
Chromium		17.8	0.60	0.11	mg/kg	SW846 6010C
Lead		7.4	1.2	0.066	mg/kg	SW846 6010C
FA3839-5	**T2 E WW**					
n-Butylbenzene		0.0074	0.0047	0.0012	mg/kg	SW846 8260B
sec-Butylbenzene		0.0027 J	0.0047	0.0011	mg/kg	SW846 8260B
Ethylbenzene		0.0076	0.0047	0.0010	mg/kg	SW846 8260B
Isopropylbenzene		0.0035 J	0.0047	0.0012	mg/kg	SW846 8260B
p-Isopropyltoluene		0.0019 J	0.0047	0.0012	mg/kg	SW846 8260B
Naphthalene		0.0762	0.0047	0.0019	mg/kg	SW846 8260B
n-Propylbenzene		0.0143	0.0047	0.00097	mg/kg	SW846 8260B
1,2,4-Trimethylbenzene		0.120	0.0047	0.0010	mg/kg	SW846 8260B
1,3,5-Trimethylbenzene		0.0124	0.0047	0.00099	mg/kg	SW846 8260B
Tetrachloroethylene		0.0018 J	0.0047	0.0011	mg/kg	SW846 8260B
Xylene (total)		0.0247	0.014	0.0029	mg/kg	SW846 8260B

2

Summary of Hits

Job Number: FA3839
Account: EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC
Collected: 04/17/13

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
m,p-Xylene	0.0108	0.0094	0.0019	mg/kg	SW846 8260B
o-Xylene	0.0139	0.0047	0.00094	mg/kg	SW846 8260B
Benzo(a)anthracene	0.0341 J	0.22	0.022	mg/kg	SW846 8270D
Benzo(g,h,i)perylene	0.0355 J	0.22	0.022	mg/kg	SW846 8270D
Chrysene	0.0238 J	0.22	0.022	mg/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate	0.287 J	0.43	0.043	mg/kg	SW846 8270D
Fluoranthene	0.0244 J	0.22	0.022	mg/kg	SW846 8270D
1-Methylnaphthalene	0.164 J	0.22	0.030	mg/kg	SW846 8270D
2-Methylnaphthalene	0.282	0.22	0.025	mg/kg	SW846 8270D
Naphthalene	0.113 J	0.22	0.022	mg/kg	SW846 8270D
Phenanthrene	0.0450 J	0.22	0.022	mg/kg	SW846 8270D
Pyrene	0.0527 J	0.22	0.022	mg/kg	SW846 8270D
Ethylbenzene	0.0665 J	0.13	0.064	mg/kg	MADEP VPH REV 1.1
Naphthalene	0.913 B	0.32	0.19	mg/kg	MADEP VPH REV 1.1
o-Xylene	0.105 J	0.13	0.064	mg/kg	MADEP VPH REV 1.1
C9- C10 Aromatics (Unadj.)	4.89 J	6.4	2.3	mg/kg	MADEP VPH REV 1.1
C9- C10 Aromatics	4.89 J	6.4	2.3	mg/kg	MADEP VPH REV 1.1
C19-C36 Aliphatics	375	52	26	mg/kg	MADEP EPH REV 1.1
Chromium	5.5	0.61	0.11	mg/kg	SW846 6010C
Lead	5.3	1.2	0.068	mg/kg	SW846 6010C
FA3839-6 T2 EF					
Naphthalene	0.0035 J	0.0049	0.0020	mg/kg	SW846 8260B
1,2,4-Trimethylbenzene	0.0018 J	0.0049	0.0011	mg/kg	SW846 8260B
C11-C22 Aromatics (Unadj.)	24.7 J	25	19	mg/kg	MADEP EPH REV 1.1
C11-C22 Aromatics	24.7 J	25	19	mg/kg	MADEP EPH REV 1.1
C19-C36 Aliphatics	265	25	13	mg/kg	MADEP EPH REV 1.1
Chromium [b]	37.8	0.94	0.17	mg/kg	SW846 6010C
Lead [b]	31.4	1.9	0.10	mg/kg	SW846 6010C
FA3839-7 T2 E NW					
Acetone	0.0492 J	0.054	0.022	mg/kg	SW846 8260B
Benzo(g,h,i)perylene	0.120 J	0.23	0.023	mg/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	0.0280 J	0.23	0.023	mg/kg	SW846 8270D
C11-C22 Aromatics (Unadj.)	44.9	28	21	mg/kg	MADEP EPH REV 1.1
C11-C22 Aromatics	44.9	28	21	mg/kg	MADEP EPH REV 1.1
C19-C36 Aliphatics	270	28	14	mg/kg	MADEP EPH REV 1.1
Chromium	37.7	0.59	0.11	mg/kg	SW846 6010C
Lead	331	1.2	0.064	mg/kg	SW846 6010C
FA3839-8 T2 E EW					
Acetone	0.0881	0.052	0.021	mg/kg	SW846 8260B

2

Summary of Hits

Job Number: FA3839
Account: EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC
Collected: 04/17/13

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
n-Butylbenzene	0.0264	0.0052	0.0013	mg/kg	SW846 8260B
sec-Butylbenzene	0.0093	0.0052	0.0013	mg/kg	SW846 8260B
Ethylbenzene	0.0090	0.0052	0.0011	mg/kg	SW846 8260B
Isopropylbenzene	0.0098	0.0052	0.0014	mg/kg	SW846 8260B
p-Isopropyltoluene	0.0052	0.0052	0.0014	mg/kg	SW846 8260B
Naphthalene	0.137	0.0052	0.0021	mg/kg	SW846 8260B
n-Propylbenzene	0.0505	0.0052	0.0011	mg/kg	SW846 8260B
1,2,4-Trimethylbenzene	0.157	0.0052	0.0011	mg/kg	SW846 8260B
1,3,5-Trimethylbenzene	0.0016 J	0.0052	0.0011	mg/kg	SW846 8260B
o-Xylene	0.0032 J	0.0052	0.0010	mg/kg	SW846 8260B
Benzo(a)anthracene	0.0223 J	0.22	0.022	mg/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate	0.149 J	0.43	0.043	mg/kg	SW846 8270D
1-Methylnaphthalene	0.0981 J	0.22	0.030	mg/kg	SW846 8270D
Naphthalene	0.0305 J	0.22	0.022	mg/kg	SW846 8270D
Pyrene	0.0473 J	0.22	0.022	mg/kg	SW846 8270D
Naphthalene	0.675 B	0.32	0.19	mg/kg	MADEP VPH REV 1.1
C9- C10 Aromatics (Unadj.)	3.11 J	6.4	2.3	mg/kg	MADEP VPH REV 1.1
C9- C10 Aromatics	3.11 J	6.4	2.3	mg/kg	MADEP VPH REV 1.1
C19-C36 Aliphatics	640	64	32	mg/kg	MADEP EPH REV 1.1
Chromium	16.2	0.53	0.095	mg/kg	SW846 6010C
Lead	13.7	1.1	0.058	mg/kg	SW846 6010C
FA3839-9 DISP					
TPH-GRO (C6-C10)	4.94 J	6.4	3.2	mg/kg	SW846 8015C
TPH (C10-C28) [a]	1310	210	85	mg/kg	SW846 8015C
Mercury	0.082	0.052	0.0052	mg/kg	SW846 7471B
Ignitability (Flashpoint) [c]	> 200			Deg. F	SW846 1010
FA3839-9L DISP					
Barium	0.076 J	2.0	0.050	mg/l	SW846 6010C
Lead	0.13	0.050	0.011	mg/l	SW846 6010C

(a) Petroleum hydrocarbon pattern extends beyond C28.
(b) Elevated reporting limit(s) due to matrix interference.
(c) Not ignitable.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	T1SF		
Lab Sample ID:	FA3839-1	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	SW846 8015C	**Percent Solids:**	78.7
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR076100.D	1	04/22/13	MM	n/a	n/a	GQR3263
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.25 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.4	3.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		56-149%
98-08-8	aaa-Trifluorotoluene	80%		66-132%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1SF		
Lab Sample ID:	FA3839-1	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	78.7
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL47691.D	1	04/23/13	SJL	04/22/13	OP46537	GLL1801
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	11	4.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	68%		56-122%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1NF		
Lab Sample ID:	FA3839-2	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	SW846 8015C	**Percent Solids:**	77.5
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR076101.D	1	04/22/13	MM	n/a	n/a	GQR3263
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.64 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.3	3.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		56-149%
98-08-8	aaa-Trifluorotoluene	80%		66-132%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1NF		
Lab Sample ID:	FA3839-2	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	77.5
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL47692.D	1	04/23/13	SJL	04/22/13	OP46537	GLL1801
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	11	4.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	66%		56-122%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2F		
Lab Sample ID:	FA3839-3	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	SW846 8015C	**Percent Solids:**	76.2
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR076122.D	1	04/23/13	MM	n/a	n/a	GQR3264
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.69 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	12.3	6.5	3.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	124%		56-149%
98-08-8	aaa-Trifluorotoluene	104%		66-132%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2F		
Lab Sample ID:	FA3839-3	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	76.2
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL47727.D	20	04/24/13	NJ	04/22/13	OP46537	GLL1802
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28) [a]	1330	220	87	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [b]		56-122%

(a) Petroleum hydrocarbon pattern extends beyond C28.
(b) Outside control limits due to dilution.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2F		
Lab Sample ID:	FA3839-3	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
		Percent Solids:	76.2
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Chromium	19.0	0.56	0.10	mg/kg	1	04/22/13	04/23/13	LM	SW846 6010C [1]	SW846 3050B [2]
Lead	78.4	1.1	0.062	mg/kg	1	04/22/13	04/23/13	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA10694
(2) Prep QC Batch: MP25002

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	T2 E SW		
Lab Sample ID:	FA3839-4	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	SW846 8260B	**Percent Solids:**	80.4
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0088328.D	1	04/19/13	EP	n/a	n/a	VG3176
Run #2							

	Initial Weight
Run #1	7.60 g
Run #2	

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	0.0985	0.041	0.016	mg/kg	
71-43-2	Benzene	ND	0.0041	0.00082	mg/kg	
108-86-1	Bromobenzene	ND	0.0041	0.00088	mg/kg	
74-97-5	Bromochloromethane	ND	0.0041	0.0011	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0041	0.0012	mg/kg	
75-25-2	Bromoform	ND	0.0041	0.00082	mg/kg	
104-51-8	n-Butylbenzene	0.0092	0.0041	0.0011	mg/kg	
135-98-8	sec-Butylbenzene	0.0038	0.0041	0.00099	mg/kg	J
98-06-6	tert-Butylbenzene	ND	0.0041	0.00097	mg/kg	
108-90-7	Chlorobenzene	ND	0.0041	0.00082	mg/kg	
75-00-3	Chloroethane	ND	0.0041	0.0016	mg/kg	
67-66-3	Chloroform	ND	0.0041	0.00082	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0041	0.00082	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0041	0.00094	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0041	0.00093	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0041	0.00082	mg/kg	
75-35-4	1,1-Dichloroethylene	ND	0.0041	0.0010	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0041	0.00082	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0041	0.00082	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0041	0.00098	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0041	0.00082	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0041	0.00082	mg/kg	
108-20-3	Di-Isopropyl ether	ND	0.0041	0.00084	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0041	0.00082	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0041	0.00082	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0041	0.00082	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0041	0.00082	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0041	0.00082	mg/kg	
541-73-1	m-Dichlorobenzene	ND	0.0041	0.00082	mg/kg	
95-50-1	o-Dichlorobenzene	ND	0.0041	0.00089	mg/kg	
106-46-7	p-Dichlorobenzene	ND	0.0041	0.0011	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	0.0041	0.00082	mg/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 E SW		
Lab Sample ID:	FA3839-4	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	SW846 8260B	**Percent Solids:**	80.4
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.0041	0.00082	mg/kg	
64-17-5	Ethyl alcohol	ND	0.33	0.054	mg/kg	
100-41-4	Ethylbenzene	ND	0.0041	0.00090	mg/kg	
591-78-6	2-Hexanone	ND	0.020	0.0041	mg/kg	
98-82-8	Isopropylbenzene	0.0018	0.0041	0.0011	mg/kg	J
99-87-6	p-Isopropyltoluene	ND	0.0041	0.0011	mg/kg	
108-10-1	4-Methyl-2-pentanone	ND	0.020	0.0041	mg/kg	
74-83-9	Methyl bromide	ND	0.0041	0.0016	mg/kg	
74-87-3	Methyl chloride	ND	0.0041	0.0017	mg/kg	
75-09-2	Methylene chloride	ND	0.0082	0.0037	mg/kg	
78-93-3	Methyl ethyl ketone	ND	0.020	0.0041	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0041	0.00082	mg/kg	
91-20-3	Naphthalene	0.0814	0.0041	0.0016	mg/kg	
103-65-1	n-Propylbenzene	0.0057	0.0041	0.00084	mg/kg	
100-42-5	Styrene	ND	0.0041	0.00082	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0041	0.00088	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0041	0.00082	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0041	0.00082	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0041	0.00082	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0041	0.00086	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0041	0.0013	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0041	0.00097	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0024	0.0041	0.00088	mg/kg	J
108-67-8	1,3,5-Trimethylbenzene	ND	0.0041	0.00086	mg/kg	
127-18-4	Tetrachloroethylene	ND	0.0041	0.00094	mg/kg	
108-88-3	Toluene	ND	0.0041	0.00082	mg/kg	
79-01-6	Trichloroethylene	ND	0.0041	0.00082	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0041	0.0016	mg/kg	
75-01-4	Vinyl chloride	ND	0.0041	0.00082	mg/kg	
108-05-4	Vinyl Acetate	ND	0.020	0.0034	mg/kg	
1330-20-7	Xylene (total)	ND	0.012	0.0025	mg/kg	
	m,p-Xylene	ND	0.0082	0.0017	mg/kg	
95-47-6	o-Xylene	ND	0.0041	0.00082	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		75-124%
2037-26-5	Toluene-D8	100%		75-126%
460-00-4	4-Bromofluorobenzene	113%		71-133%
17060-07-0	1,2-Dichloroethane-D4	119%		72-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 E SW		
Lab Sample ID:	FA3839-4	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	80.4
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X028030.D	1	04/23/13	FS	04/22/13	OP46544	SX1346
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1.0	0.21	mg/kg	
95-57-8	2-Chlorophenol	ND	0.21	0.024	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.21	0.023	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.21	0.023	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.21	0.030	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	1.0	0.21	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.41	0.083	mg/kg	
95-48-7	2-Methylphenol	ND	0.21	0.026	mg/kg	
	3&4-Methylphenol	ND	0.21	0.043	mg/kg	
88-75-5	2-Nitrophenol	ND	0.21	0.031	mg/kg	
100-02-7	4-Nitrophenol	ND	1.0	0.17	mg/kg	
87-86-5	Pentachlorophenol	ND	1.0	0.17	mg/kg	
108-95-2	Phenol	ND	0.21	0.034	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.21	0.027	mg/kg	
83-32-9	Acenaphthene	ND	0.21	0.025	mg/kg	
208-96-8	Acenaphthylene	ND	0.21	0.024	mg/kg	
120-12-7	Anthracene	ND	0.21	0.021	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.21	0.021	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.21	0.021	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.21	0.021	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.21	0.021	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.21	0.025	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.21	0.026	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.21	0.041	mg/kg	
100-51-6	Benzyl Alcohol	ND	0.21	0.041	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.21	0.027	mg/kg	
106-47-8	4-Chloroaniline	ND	0.21	0.031	mg/kg	
218-01-9	Chrysene	ND	0.21	0.021	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.21	0.029	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.21	0.028	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.21	0.024	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.21	0.022	mg/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 E SW		
Lab Sample ID:	FA3839-4	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	80.4
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

ABN List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	0.21	0.021	mg/kg	
122-66-7	1,2-Diphenylhydrazine	ND	0.21	0.023	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.21	0.027	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.21	0.022	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.21	0.035	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.21	0.021	mg/kg	
132-64-9	Dibenzofuran	ND	0.21	0.021	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.41	0.041	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.21	0.041	mg/kg	
84-66-2	Diethyl phthalate	ND	0.41	0.041	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.21	0.041	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.138	0.41	0.041	mg/kg	J
206-44-0	Fluoranthene	ND	0.21	0.021	mg/kg	
86-73-7	Fluorene	ND	0.21	0.023	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.21	0.021	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.21	0.023	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.21	0.029	mg/kg	
67-72-1	Hexachloroethane	ND	0.21	0.023	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.21	0.021	mg/kg	
78-59-1	Isophorone	ND	0.21	0.023	mg/kg	
90-12-0	1-Methylnaphthalene	0.0620	0.21	0.028	mg/kg	J
91-57-6	2-Methylnaphthalene	ND	0.21	0.024	mg/kg	
91-20-3	Naphthalene	0.0273	0.21	0.021	mg/kg	J
98-95-3	Nitrobenzene	ND	0.21	0.030	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.21	0.023	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.21	0.041	mg/kg	
85-01-8	Phenanthrene	ND	0.21	0.021	mg/kg	
129-00-0	Pyrene	0.0293	0.21	0.021	mg/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	0.21	0.022	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	55%		40-102%
4165-62-2	Phenol-d5	63%		41-100%
118-79-6	2,4,6-Tribromophenol	71%		42-108%
4165-60-0	Nitrobenzene-d5	70%		40-105%
321-60-8	2-Fluorobiphenyl	67%		43-107%
1718-51-0	Terphenyl-d14	83%		45-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 E SW		
Lab Sample ID:	FA3839-4	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	MADEP VPH REV 1.1	**Percent Solids:**	80.4
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UU002666.D	1	04/22/13	AH	n/a	n/a	GUU141
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	7.31 g	5.1 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.056	0.056	mg/kg	
100-41-4	Ethylbenzene	ND	0.11	0.056	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.11	0.056	mg/kg	
91-20-3	Naphthalene	ND	0.28	0.17	mg/kg	
108-88-3	Toluene	ND	0.11	0.056	mg/kg	
	m,p-Xylene	ND	0.22	0.11	mg/kg	
95-47-6	o-Xylene	ND	0.11	0.056	mg/kg	
	C5- C8 Aliphatics (Unadj.)	ND	5.6	1.9	mg/kg	
	C9- C12 Aliphatics (Unadj.)	ND	5.6	1.9	mg/kg	
	C9- C10 Aromatics (Unadj.)	ND	5.6	1.9	mg/kg	
	C5- C8 Aliphatics	ND	5.6	1.9	mg/kg	
	C9- C12 Aliphatics	ND	5.6	1.9	mg/kg	
	C9- C10 Aromatics	ND	5.6	1.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	167% [a]		70-130%
460-00-4	BFB	172% [a]		70-130%

(a) Outside control limits; however, sample is ND.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 E SW		
Lab Sample ID:	FA3839-4	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	80.4
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN004431.D	4	04/25/13	NMC	04/22/13	OP46542	GNN190
Run #2							

	Initial Weight	Final Volume
Run #1	19.9 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	1.0	0.50	mg/kg	
208-96-8	Acenaphthylene	ND	1.0	0.50	mg/kg	
120-12-7	Anthracene	ND	1.0	0.50	mg/kg	
56-55-3	Benzo(a)anthracene	ND	1.0	0.50	mg/kg	
50-32-8	Benzo(a)pyrene	ND	1.0	0.50	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.50	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.50	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.50	mg/kg	
218-01-9	Chrysene	ND	1.0	0.50	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.50	mg/kg	
206-44-0	Fluoranthene	ND	1.0	0.50	mg/kg	
86-73-7	Fluorene	ND	1.0	0.50	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.50	mg/kg	
91-57-6	2-Methylnaphthalene	ND	1.0	0.50	mg/kg	
91-20-3	Naphthalene	ND	1.0	0.50	mg/kg	
85-01-8	Phenanthrene	ND	1.0	0.50	mg/kg	
129-00-0	Pyrene	ND	1.0	0.50	mg/kg	
	C11-C22 Aromatics (Unadj.)	ND	50	38	mg/kg	
	C11-C22 Aromatics	ND	50	38	mg/kg	
	C9-C18 Aliphatics	ND	50	25	mg/kg	
	C19-C36 Aliphatics	426	50	25	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	78%		40-140%
580-13-2	2-Bromonaphthalene	74%		40-140%
84-15-1	o-Terphenyl	59%		40-140%
321-60-8	2-Fluorobiphenyl	75%		40-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 E SW		
Lab Sample ID:	FA3839-4	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
		Percent Solids:	80.4
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Chromium	17.8	0.60	0.11	mg/kg	1	04/22/13	04/23/13 LM	SW846 6010C [1]	SW846 3050B [2]
Lead	7.4	1.2	0.066	mg/kg	1	04/22/13	04/23/13 LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA10694
(2) Prep QC Batch: MP25002

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	T2 E WW		
Lab Sample ID:	FA3839-5	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	SW846 8260B	**Percent Solids:**	76.7
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0088329.D	1	04/19/13	EP	n/a	n/a	VG3176
Run #2							

	Initial Weight
Run #1	6.91 g
Run #2	

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.047	0.019	mg/kg	
71-43-2	Benzene	ND	0.0047	0.00094	mg/kg	
108-86-1	Bromobenzene	ND	0.0047	0.0010	mg/kg	
74-97-5	Bromochloromethane	ND	0.0047	0.0013	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0047	0.0013	mg/kg	
75-25-2	Bromoform	ND	0.0047	0.00094	mg/kg	
104-51-8	n-Butylbenzene	0.0074	0.0047	0.0012	mg/kg	
135-98-8	sec-Butylbenzene	0.0027	0.0047	0.0011	mg/kg	J
98-06-6	tert-Butylbenzene	ND	0.0047	0.0011	mg/kg	
108-90-7	Chlorobenzene	ND	0.0047	0.00094	mg/kg	
75-00-3	Chloroethane	ND	0.0047	0.0019	mg/kg	
67-66-3	Chloroform	ND	0.0047	0.00094	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0047	0.00094	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0047	0.0011	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0047	0.0011	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0047	0.00094	mg/kg	
75-35-4	1,1-Dichloroethylene	ND	0.0047	0.0012	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0047	0.00094	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0047	0.00094	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0047	0.0011	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0047	0.00094	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0047	0.00094	mg/kg	
108-20-3	Di-Isopropyl ether	ND	0.0047	0.00097	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0047	0.00094	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0047	0.00094	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0047	0.00094	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0047	0.00094	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0047	0.00094	mg/kg	
541-73-1	m-Dichlorobenzene	ND	0.0047	0.00094	mg/kg	
95-50-1	o-Dichlorobenzene	ND	0.0047	0.0010	mg/kg	
106-46-7	p-Dichlorobenzene	ND	0.0047	0.0012	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	0.0047	0.00094	mg/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 E WW		
Lab Sample ID:	FA3839-5	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	SW846 8260B	**Percent Solids:**	76.7
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.0047	0.00094	mg/kg	
64-17-5	Ethyl alcohol	ND	0.38	0.062	mg/kg	
100-41-4	Ethylbenzene	0.0076	0.0047	0.0010	mg/kg	
591-78-6	2-Hexanone	ND	0.024	0.0047	mg/kg	
98-82-8	Isopropylbenzene	0.0035	0.0047	0.0012	mg/kg	J
99-87-6	p-Isopropyltoluene	0.0019	0.0047	0.0012	mg/kg	J
108-10-1	4-Methyl-2-pentanone	ND	0.024	0.0047	mg/kg	
74-83-9	Methyl bromide	ND	0.0047	0.0019	mg/kg	
74-87-3	Methyl chloride	ND	0.0047	0.0020	mg/kg	
75-09-2	Methylene chloride	ND	0.0094	0.0043	mg/kg	
78-93-3	Methyl ethyl ketone	ND	0.024	0.0047	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0047	0.00094	mg/kg	
91-20-3	Naphthalene	0.0762	0.0047	0.0019	mg/kg	
103-65-1	n-Propylbenzene	0.0143	0.0047	0.00097	mg/kg	
100-42-5	Styrene	ND	0.0047	0.00094	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0047	0.0010	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0047	0.00094	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0047	0.00094	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0047	0.00094	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0047	0.00099	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0047	0.0015	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0047	0.0011	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.120	0.0047	0.0010	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	0.0124	0.0047	0.00099	mg/kg	
127-18-4	Tetrachloroethylene	0.0018	0.0047	0.0011	mg/kg	J
108-88-3	Toluene	ND	0.0047	0.00094	mg/kg	
79-01-6	Trichloroethylene	ND	0.0047	0.00094	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0047	0.0019	mg/kg	
75-01-4	Vinyl chloride	ND	0.0047	0.00094	mg/kg	
108-05-4	Vinyl Acetate	ND	0.024	0.0039	mg/kg	
1330-20-7	Xylene (total)	0.0247	0.014	0.0029	mg/kg	
	m,p-Xylene	0.0108	0.0094	0.0019	mg/kg	
95-47-6	o-Xylene	0.0139	0.0047	0.00094	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		75-124%
2037-26-5	Toluene-D8	79%		75-126%
460-00-4	4-Bromofluorobenzene	102%		71-133%
17060-07-0	1,2-Dichloroethane-D4	127%		72-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

3.5
3

Client Sample ID:	T2 E WW		
Lab Sample ID:	FA3839-5	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	76.7
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X028031.D	1	04/23/13	FS	04/22/13	OP46544	SX1346
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1.1	0.22	mg/kg	
95-57-8	2-Chlorophenol	ND	0.22	0.026	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.22	0.024	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.22	0.024	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.22	0.032	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	1.1	0.22	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.43	0.087	mg/kg	
95-48-7	2-Methylphenol	ND	0.22	0.027	mg/kg	
	3&4-Methylphenol	ND	0.22	0.045	mg/kg	
88-75-5	2-Nitrophenol	ND	0.22	0.033	mg/kg	
100-02-7	4-Nitrophenol	ND	1.1	0.17	mg/kg	
87-86-5	Pentachlorophenol	ND	1.1	0.17	mg/kg	
108-95-2	Phenol	ND	0.22	0.036	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.22	0.028	mg/kg	
83-32-9	Acenaphthene	ND	0.22	0.026	mg/kg	
208-96-8	Acenaphthylene	ND	0.22	0.025	mg/kg	
120-12-7	Anthracene	ND	0.22	0.022	mg/kg	
56-55-3	Benzo(a)anthracene	0.0341	0.22	0.022	mg/kg	J
50-32-8	Benzo(a)pyrene	ND	0.22	0.022	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.22	0.022	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.0355	0.22	0.022	mg/kg	J
207-08-9	Benzo(k)fluoranthene	ND	0.22	0.026	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.22	0.028	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.22	0.043	mg/kg	
100-51-6	Benzyl Alcohol	ND	0.22	0.043	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.22	0.028	mg/kg	
106-47-8	4-Chloroaniline	ND	0.22	0.033	mg/kg	
218-01-9	Chrysene	0.0238	0.22	0.022	mg/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	0.22	0.031	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.22	0.029	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.22	0.025	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.22	0.023	mg/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 E WW		
Lab Sample ID:	FA3839-5	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	76.7
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

ABN List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	0.22	0.022	mg/kg	
122-66-7	1,2-Diphenylhydrazine	ND	0.22	0.024	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.22	0.029	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.22	0.023	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.22	0.036	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	0.022	mg/kg	
132-64-9	Dibenzofuran	ND	0.22	0.022	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.43	0.043	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.22	0.043	mg/kg	
84-66-2	Diethyl phthalate	ND	0.43	0.043	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.22	0.043	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.287	0.43	0.043	mg/kg	J
206-44-0	Fluoranthene	0.0244	0.22	0.022	mg/kg	J
86-73-7	Fluorene	ND	0.22	0.024	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.22	0.022	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.22	0.024	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.22	0.030	mg/kg	
67-72-1	Hexachloroethane	ND	0.22	0.025	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	0.022	mg/kg	
78-59-1	Isophorone	ND	0.22	0.024	mg/kg	
90-12-0	1-Methylnaphthalene	0.164	0.22	0.030	mg/kg	J
91-57-6	2-Methylnaphthalene	0.282	0.22	0.025	mg/kg	
91-20-3	Naphthalene	0.113	0.22	0.022	mg/kg	J
98-95-3	Nitrobenzene	ND	0.22	0.032	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.22	0.024	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.22	0.043	mg/kg	
85-01-8	Phenanthrene	0.0450	0.22	0.022	mg/kg	J
129-00-0	Pyrene	0.0527	0.22	0.022	mg/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	0.22	0.023	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	65%		40-102%
4165-62-2	Phenol-d5	73%		41-100%
118-79-6	2,4,6-Tribromophenol	80%		42-108%
4165-60-0	Nitrobenzene-d5	82%		40-105%
321-60-8	2-Fluorobiphenyl	76%		43-107%
1718-51-0	Terphenyl-d14	85%		45-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 E WW		
Lab Sample ID:	FA3839-5	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	MADEP VPH REV 1.1	**Percent Solids:**	76.7
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UU002734.D	1	04/25/13	MM	n/a	n/a	GUU146
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.75 g	5.1 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.064	0.064	mg/kg	
100-41-4	Ethylbenzene	0.0665	0.13	0.064	mg/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	0.13	0.064	mg/kg	
91-20-3	Naphthalene	0.913	0.32	0.19	mg/kg	B
108-88-3	Toluene	ND	0.13	0.064	mg/kg	
	m,p-Xylene	ND	0.26	0.13	mg/kg	
95-47-6	o-Xylene	0.105	0.13	0.064	mg/kg	J
	C5- C8 Aliphatics (Unadj.)	ND	6.4	2.3	mg/kg	
	C9- C12 Aliphatics (Unadj.)	ND	6.4	2.3	mg/kg	
	C9- C10 Aromatics (Unadj.)	4.89	6.4	2.3	mg/kg	J
	C5- C8 Aliphatics	ND	6.4	2.3	mg/kg	
	C9- C12 Aliphatics	ND	6.4	2.3	mg/kg	
	C9- C10 Aromatics	4.89	6.4	2.3	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	92%		70-130%
460-00-4	BFB	94%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 E WW		
Lab Sample ID:	FA3839-5	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	76.7
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN004432.D	4	04/25/13	NMC	04/22/13	OP46542	GNN190
Run #2							

	Initial Weight	Final Volume
Run #1	20.2 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	1.0	0.52	mg/kg	
208-96-8	Acenaphthylene	ND	1.0	0.52	mg/kg	
120-12-7	Anthracene	ND	1.0	0.52	mg/kg	
56-55-3	Benzo(a)anthracene	ND	1.0	0.52	mg/kg	
50-32-8	Benzo(a)pyrene	ND	1.0	0.52	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.52	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.52	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.52	mg/kg	
218-01-9	Chrysene	ND	1.0	0.52	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.52	mg/kg	
206-44-0	Fluoranthene	ND	1.0	0.52	mg/kg	
86-73-7	Fluorene	ND	1.0	0.52	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.52	mg/kg	
91-57-6	2-Methylnaphthalene	ND	1.0	0.52	mg/kg	
91-20-3	Naphthalene	ND	1.0	0.52	mg/kg	
85-01-8	Phenanthrene	ND	1.0	0.52	mg/kg	
129-00-0	Pyrene	ND	1.0	0.52	mg/kg	
	C11-C22 Aromatics (Unadj.)	ND	52	39	mg/kg	
	C11-C22 Aromatics	ND	52	39	mg/kg	
	C9-C18 Aliphatics	ND	52	26	mg/kg	
	C19-C36 Aliphatics	375	52	26	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	71%		40-140%
580-13-2	2-Bromonaphthalene	85%		40-140%
84-15-1	o-Terphenyl	69%		40-140%
321-60-8	2-Fluorobiphenyl	86%		40-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 E WW		
Lab Sample ID:	FA3839-5	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
		Percent Solids:	76.7
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Chromium	5.5	0.61	0.11	mg/kg	1	04/22/13	04/23/13	LM	SW846 6010C [1]	SW846 3050B [2]
Lead	5.3	1.2	0.068	mg/kg	1	04/22/13	04/23/13	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA10693
(2) Prep QC Batch: MP25004

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	T2 EF		
Lab Sample ID:	FA3839-6	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	SW846 8260B	**Percent Solids:**	80.3
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0088330.D	1	04/19/13	EP	n/a	n/a	VG3176
Run #2							

	Initial Weight
Run #1	6.36 g
Run #2	

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.049	0.020	mg/kg	
71-43-2	Benzene	ND	0.0049	0.00098	mg/kg	
108-86-1	Bromobenzene	ND	0.0049	0.0011	mg/kg	
74-97-5	Bromochloromethane	ND	0.0049	0.0014	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0049	0.0014	mg/kg	
75-25-2	Bromoform	ND	0.0049	0.00098	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0049	0.0013	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0049	0.0012	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0049	0.0012	mg/kg	
108-90-7	Chlorobenzene	ND	0.0049	0.00098	mg/kg	
75-00-3	Chloroethane	ND	0.0049	0.0020	mg/kg	
67-66-3	Chloroform	ND	0.0049	0.00098	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0049	0.00098	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0049	0.0011	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0049	0.0011	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0049	0.00098	mg/kg	
75-35-4	1,1-Dichloroethylene	ND	0.0049	0.0012	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0049	0.00098	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0049	0.00098	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0049	0.0012	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0049	0.00098	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0049	0.00098	mg/kg	
108-20-3	Di-Isopropyl ether	ND	0.0049	0.0010	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0049	0.00098	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0049	0.00098	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0049	0.00098	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0049	0.00098	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0049	0.00098	mg/kg	
541-73-1	m-Dichlorobenzene	ND	0.0049	0.00098	mg/kg	
95-50-1	o-Dichlorobenzene	ND	0.0049	0.0011	mg/kg	
106-46-7	p-Dichlorobenzene	ND	0.0049	0.0013	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	0.0049	0.00098	mg/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 EF		
Lab Sample ID:	FA3839-6	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	SW846 8260B	**Percent Solids:**	80.3
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.0049	0.00098	mg/kg	
64-17-5	Ethyl alcohol	ND	0.39	0.064	mg/kg	
100-41-4	Ethylbenzene	ND	0.0049	0.0011	mg/kg	
591-78-6	2-Hexanone	ND	0.024	0.0049	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0049	0.0013	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0049	0.0013	mg/kg	
108-10-1	4-Methyl-2-pentanone	ND	0.024	0.0049	mg/kg	
74-83-9	Methyl bromide	ND	0.0049	0.0020	mg/kg	
74-87-3	Methyl chloride	ND	0.0049	0.0020	mg/kg	
75-09-2	Methylene chloride	ND	0.0098	0.0045	mg/kg	
78-93-3	Methyl ethyl ketone	ND	0.024	0.0049	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0049	0.00098	mg/kg	
91-20-3	Naphthalene	0.0035	0.0049	0.0020	mg/kg	J
103-65-1	n-Propylbenzene	ND	0.0049	0.0010	mg/kg	
100-42-5	Styrene	ND	0.0049	0.00098	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0049	0.0010	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0049	0.00098	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0049	0.00098	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0049	0.00098	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0049	0.0010	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0049	0.0016	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0049	0.0012	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0018	0.0049	0.0011	mg/kg	J
108-67-8	1,3,5-Trimethylbenzene	ND	0.0049	0.0010	mg/kg	
127-18-4	Tetrachloroethylene	ND	0.0049	0.0011	mg/kg	
108-88-3	Toluene	ND	0.0049	0.00098	mg/kg	
79-01-6	Trichloroethylene	ND	0.0049	0.00098	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0049	0.0020	mg/kg	
75-01-4	Vinyl chloride	ND	0.0049	0.00098	mg/kg	
108-05-4	Vinyl Acetate	ND	0.024	0.0041	mg/kg	
1330-20-7	Xylene (total)	ND	0.015	0.0030	mg/kg	
	m,p-Xylene	ND	0.0098	0.0020	mg/kg	
95-47-6	o-Xylene	ND	0.0049	0.00098	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		75-124%
2037-26-5	Toluene-D8	104%		75-126%
460-00-4	4-Bromofluorobenzene	105%		71-133%
17060-07-0	1,2-Dichloroethane-D4	118%		72-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 EF		
Lab Sample ID:	FA3839-6	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	80.3
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X028032.D	1	04/23/13	FS	04/22/13	OP46544	SX1346
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1.0	0.21	mg/kg	
95-57-8	2-Chlorophenol	ND	0.21	0.024	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.21	0.023	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.21	0.023	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.21	0.030	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	1.0	0.21	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.41	0.083	mg/kg	
95-48-7	2-Methylphenol	ND	0.21	0.026	mg/kg	
	3&4-Methylphenol	ND	0.21	0.043	mg/kg	
88-75-5	2-Nitrophenol	ND	0.21	0.031	mg/kg	
100-02-7	4-Nitrophenol	ND	1.0	0.17	mg/kg	
87-86-5	Pentachlorophenol	ND	1.0	0.17	mg/kg	
108-95-2	Phenol	ND	0.21	0.034	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.21	0.026	mg/kg	
83-32-9	Acenaphthene	ND	0.21	0.025	mg/kg	
208-96-8	Acenaphthylene	ND	0.21	0.024	mg/kg	
120-12-7	Anthracene	ND	0.21	0.021	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.21	0.021	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.21	0.021	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.21	0.021	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.21	0.021	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.21	0.025	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.21	0.026	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.21	0.041	mg/kg	
100-51-6	Benzyl Alcohol	ND	0.21	0.041	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.21	0.027	mg/kg	
106-47-8	4-Chloroaniline	ND	0.21	0.031	mg/kg	
218-01-9	Chrysene	ND	0.21	0.021	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.21	0.029	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.21	0.028	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.21	0.023	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.21	0.022	mg/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 EF		
Lab Sample ID:	FA3839-6	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	80.3
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

ABN List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	0.21	0.021	mg/kg	
122-66-7	1,2-Diphenylhydrazine	ND	0.21	0.023	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.21	0.027	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.21	0.022	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.21	0.035	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.21	0.021	mg/kg	
132-64-9	Dibenzofuran	ND	0.21	0.021	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.41	0.041	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.21	0.041	mg/kg	
84-66-2	Diethyl phthalate	ND	0.41	0.041	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.21	0.041	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.41	0.041	mg/kg	
206-44-0	Fluoranthene	ND	0.21	0.021	mg/kg	
86-73-7	Fluorene	ND	0.21	0.023	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.21	0.021	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.21	0.023	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.21	0.029	mg/kg	
67-72-1	Hexachloroethane	ND	0.21	0.023	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.21	0.021	mg/kg	
78-59-1	Isophorone	ND	0.21	0.023	mg/kg	
90-12-0	1-Methylnaphthalene	ND	0.21	0.028	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.21	0.024	mg/kg	
91-20-3	Naphthalene	ND	0.21	0.021	mg/kg	
98-95-3	Nitrobenzene	ND	0.21	0.030	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.21	0.023	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.21	0.041	mg/kg	
85-01-8	Phenanthrene	ND	0.21	0.021	mg/kg	
129-00-0	Pyrene	ND	0.21	0.021	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.21	0.022	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	61%		40-102%
4165-62-2	Phenol-d5	66%		41-100%
118-79-6	2,4,6-Tribromophenol	95%		42-108%
4165-60-0	Nitrobenzene-d5	68%		40-105%
321-60-8	2-Fluorobiphenyl	81%		43-107%
1718-51-0	Terphenyl-d14	92%		45-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 EF		
Lab Sample ID:	FA3839-6	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	MADEP VPH REV 1.1	**Percent Solids:**	80.3
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UU002668.D	1	04/22/13	AH	n/a	n/a	GUU141
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.38 g	5.1 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.071	0.071	mg/kg	
100-41-4	Ethylbenzene	ND	0.14	0.071	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.14	0.071	mg/kg	
91-20-3	Naphthalene	ND	0.36	0.21	mg/kg	
108-88-3	Toluene	ND	0.14	0.071	mg/kg	
	m,p-Xylene	ND	0.29	0.14	mg/kg	
95-47-6	o-Xylene	ND	0.14	0.071	mg/kg	
	C5- C8 Aliphatics (Unadj.)	ND	7.1	2.5	mg/kg	
	C9- C12 Aliphatics (Unadj.)	ND	7.1	2.5	mg/kg	
	C9- C10 Aromatics (Unadj.)	ND	7.1	2.5	mg/kg	
	C5- C8 Aliphatics	ND	7.1	2.5	mg/kg	
	C9- C12 Aliphatics	ND	7.1	2.5	mg/kg	
	C9- C10 Aromatics	ND	7.1	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	153% [a]		70-130%
460-00-4	BFB	157% [a]		70-130%

(a) Outside control limits due to moisture content.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 EF		
Lab Sample ID:	FA3839-6	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	80.3
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN004433.D	2	04/25/13	NMC	04/22/13	OP46542	GNN190
Run #2							

	Initial Weight	Final Volume
Run #1	19.6 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.51	0.25	mg/kg	
208-96-8	Acenaphthylene	ND	0.51	0.25	mg/kg	
120-12-7	Anthracene	ND	0.51	0.25	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.51	0.25	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.51	0.25	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.51	0.25	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.51	0.25	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.51	0.25	mg/kg	
218-01-9	Chrysene	ND	0.51	0.25	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.51	0.25	mg/kg	
206-44-0	Fluoranthene	ND	0.51	0.25	mg/kg	
86-73-7	Fluorene	ND	0.51	0.25	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.51	0.25	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.51	0.25	mg/kg	
91-20-3	Naphthalene	ND	0.51	0.25	mg/kg	
85-01-8	Phenanthrene	ND	0.51	0.25	mg/kg	
129-00-0	Pyrene	ND	0.51	0.25	mg/kg	
	C11-C22 Aromatics (Unadj.)	24.7	25	19	mg/kg	J
	C11-C22 Aromatics	24.7	25	19	mg/kg	J
	C9-C18 Aliphatics	ND	25	13	mg/kg	
	C19-C36 Aliphatics	265	25	13	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	66%		40-140%
580-13-2	2-Bromonaphthalene	85%		40-140%
84-15-1	o-Terphenyl	53%		40-140%
321-60-8	2-Fluorobiphenyl	86%		40-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 EF		
Lab Sample ID:	FA3839-6	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
		Percent Solids:	80.3
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Chromium [a]	37.8	0.94	0.17	mg/kg	2	04/22/13	04/24/13 LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	31.4	1.9	0.10	mg/kg	2	04/22/13	04/24/13 LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA10695
(2) Prep QC Batch: MP25004

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	T2 E NW		
Lab Sample ID:	FA3839-7	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	SW846 8260B	**Percent Solids:**	72.3
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0088331.D	1	04/19/13	EP	n/a	n/a	VG3176
Run #2							

	Initial Weight
Run #1	6.35 g
Run #2	

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	0.0492	0.054	0.022	mg/kg	J
71-43-2	Benzene	ND	0.0054	0.0011	mg/kg	
108-86-1	Bromobenzene	ND	0.0054	0.0012	mg/kg	
74-97-5	Bromochloromethane	ND	0.0054	0.0015	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0054	0.0015	mg/kg	
75-25-2	Bromoform	ND	0.0054	0.0011	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0054	0.0014	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0054	0.0013	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0054	0.0013	mg/kg	
108-90-7	Chlorobenzene	ND	0.0054	0.0011	mg/kg	
75-00-3	Chloroethane	ND	0.0054	0.0022	mg/kg	
67-66-3	Chloroform	ND	0.0054	0.0011	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0054	0.0011	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0054	0.0013	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0054	0.0012	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0054	0.0011	mg/kg	
75-35-4	1,1-Dichloroethylene	ND	0.0054	0.0013	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0054	0.0011	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0054	0.0011	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0054	0.0013	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0054	0.0011	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0054	0.0011	mg/kg	
108-20-3	Di-Isopropyl ether	ND	0.0054	0.0011	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0054	0.0011	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0054	0.0011	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0054	0.0011	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0054	0.0011	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0054	0.0011	mg/kg	
541-73-1	m-Dichlorobenzene	ND	0.0054	0.0011	mg/kg	
95-50-1	o-Dichlorobenzene	ND	0.0054	0.0012	mg/kg	
106-46-7	p-Dichlorobenzene	ND	0.0054	0.0014	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	0.0054	0.0011	mg/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 E NW		
Lab Sample ID:	FA3839-7	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	SW846 8260B	**Percent Solids:**	72.3
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.0054	0.0011	mg/kg	
64-17-5	Ethyl alcohol	ND	0.44	0.071	mg/kg	
100-41-4	Ethylbenzene	ND	0.0054	0.0012	mg/kg	
591-78-6	2-Hexanone	ND	0.027	0.0054	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0054	0.0014	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0054	0.0014	mg/kg	
108-10-1	4-Methyl-2-pentanone	ND	0.027	0.0054	mg/kg	
74-83-9	Methyl bromide	ND	0.0054	0.0022	mg/kg	
74-87-3	Methyl chloride	ND	0.0054	0.0023	mg/kg	
75-09-2	Methylene chloride	ND	0.011	0.0050	mg/kg	
78-93-3	Methyl ethyl ketone	ND	0.027	0.0054	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0054	0.0011	mg/kg	
91-20-3	Naphthalene	ND	0.0054	0.0022	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0054	0.0011	mg/kg	
100-42-5	Styrene	ND	0.0054	0.0011	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0054	0.0012	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0054	0.0011	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0054	0.0011	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0054	0.0011	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0054	0.0011	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0054	0.0018	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0054	0.0013	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0054	0.0012	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0054	0.0011	mg/kg	
127-18-4	Tetrachloroethylene	ND	0.0054	0.0013	mg/kg	
108-88-3	Toluene	ND	0.0054	0.0011	mg/kg	
79-01-6	Trichloroethylene	ND	0.0054	0.0011	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0054	0.0022	mg/kg	
75-01-4	Vinyl chloride	ND	0.0054	0.0011	mg/kg	
108-05-4	Vinyl Acetate	ND	0.027	0.0045	mg/kg	
1330-20-7	Xylene (total)	ND	0.016	0.0033	mg/kg	
	m,p-Xylene	ND	0.011	0.0022	mg/kg	
95-47-6	o-Xylene	ND	0.0054	0.0011	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		75-124%
2037-26-5	Toluene-D8	82%		75-126%
460-00-4	4-Bromofluorobenzene	96%		71-133%
17060-07-0	1,2-Dichloroethane-D4	130%		72-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 E NW		
Lab Sample ID:	FA3839-7	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	72.3
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X028033.D	1	04/23/13	FS	04/22/13	OP46544	SX1346
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1.2	0.23	mg/kg	
95-57-8	2-Chlorophenol	ND	0.23	0.027	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.23	0.025	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.23	0.026	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.23	0.034	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	1.2	0.23	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.46	0.092	mg/kg	
95-48-7	2-Methylphenol	ND	0.23	0.029	mg/kg	
	3&4-Methylphenol	ND	0.23	0.048	mg/kg	
88-75-5	2-Nitrophenol	ND	0.23	0.035	mg/kg	
100-02-7	4-Nitrophenol	ND	1.2	0.18	mg/kg	
87-86-5	Pentachlorophenol	ND	1.2	0.18	mg/kg	
108-95-2	Phenol	ND	0.23	0.038	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.23	0.030	mg/kg	
83-32-9	Acenaphthene	ND	0.23	0.027	mg/kg	
208-96-8	Acenaphthylene	ND	0.23	0.027	mg/kg	
120-12-7	Anthracene	ND	0.23	0.023	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.23	0.023	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.23	0.023	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.23	0.023	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.120	0.23	0.023	mg/kg	J
207-08-9	Benzo(k)fluoranthene	ND	0.23	0.027	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.23	0.029	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.23	0.046	mg/kg	
100-51-6	Benzyl Alcohol	ND	0.23	0.046	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.23	0.030	mg/kg	
106-47-8	4-Chloroaniline	ND	0.23	0.035	mg/kg	
218-01-9	Chrysene	ND	0.23	0.023	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.23	0.032	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.23	0.031	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.23	0.026	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.23	0.024	mg/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 E NW		
Lab Sample ID:	FA3839-7	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	72.3
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

ABN List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	0.23	0.023	mg/kg	
122-66-7	1,2-Diphenylhydrazine	ND	0.23	0.026	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.23	0.030	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.23	0.025	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.23	0.039	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.23	0.023	mg/kg	
132-64-9	Dibenzofuran	ND	0.23	0.023	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.46	0.046	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.23	0.046	mg/kg	
84-66-2	Diethyl phthalate	ND	0.46	0.046	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.23	0.046	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.46	0.046	mg/kg	
206-44-0	Fluoranthene	ND	0.23	0.023	mg/kg	
86-73-7	Fluorene	ND	0.23	0.026	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.23	0.023	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.23	0.025	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.23	0.032	mg/kg	
67-72-1	Hexachloroethane	ND	0.23	0.026	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0280	0.23	0.023	mg/kg	J
78-59-1	Isophorone	ND	0.23	0.025	mg/kg	
90-12-0	1-Methylnaphthalene	ND	0.23	0.031	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.23	0.027	mg/kg	
91-20-3	Naphthalene	ND	0.23	0.023	mg/kg	
98-95-3	Nitrobenzene	ND	0.23	0.034	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.23	0.025	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.23	0.046	mg/kg	
85-01-8	Phenanthrene	ND	0.23	0.023	mg/kg	
129-00-0	Pyrene	ND	0.23	0.023	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.23	0.025	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	61%		40-102%
4165-62-2	Phenol-d5	68%		41-100%
118-79-6	2,4,6-Tribromophenol	89%		42-108%
4165-60-0	Nitrobenzene-d5	71%		40-105%
321-60-8	2-Fluorobiphenyl	128% [a]		43-107%
1718-51-0	Terphenyl-d14	91%		45-119%

(a) Outside control limits.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 E NW		
Lab Sample ID:	FA3839-7	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	MADEP VPH REV 1.1	**Percent Solids:**	72.3
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UU002669.D	1	04/23/13	AH	n/a	n/a	GUU141
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	7.24 g	5.1 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.068	0.068	mg/kg	
100-41-4	Ethylbenzene	ND	0.14	0.068	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.14	0.068	mg/kg	
91-20-3	Naphthalene	ND	0.34	0.20	mg/kg	
108-88-3	Toluene	ND	0.14	0.068	mg/kg	
	m,p-Xylene	ND	0.27	0.14	mg/kg	
95-47-6	o-Xylene	ND	0.14	0.068	mg/kg	
	C5- C8 Aliphatics (Unadj.)	ND	6.8	2.4	mg/kg	
	C9- C12 Aliphatics (Unadj.)	ND	6.8	2.4	mg/kg	
	C9- C10 Aromatics (Unadj.)	ND	6.8	2.4	mg/kg	
	C5- C8 Aliphatics	ND	6.8	2.4	mg/kg	
	C9- C12 Aliphatics	ND	6.8	2.4	mg/kg	
	C9- C10 Aromatics	ND	6.8	2.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	136% [a]		70-130%
460-00-4	BFB	139% [a]		70-130%

(a) Outside control limits due to moisture content.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 E NW		
Lab Sample ID:	FA3839-7	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	72.3
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN004434.D	2	04/25/13	NMC	04/22/13	OP46542	GNN190
Run #2							

	Initial Weight	Final Volume
Run #1	19.9 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.56	0.28	mg/kg	
208-96-8	Acenaphthylene	ND	0.56	0.28	mg/kg	
120-12-7	Anthracene	ND	0.56	0.28	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.56	0.28	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.56	0.28	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.56	0.28	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.56	0.28	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.56	0.28	mg/kg	
218-01-9	Chrysene	ND	0.56	0.28	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.56	0.28	mg/kg	
206-44-0	Fluoranthene	ND	0.56	0.28	mg/kg	
86-73-7	Fluorene	ND	0.56	0.28	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.56	0.28	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.56	0.28	mg/kg	
91-20-3	Naphthalene	ND	0.56	0.28	mg/kg	
85-01-8	Phenanthrene	ND	0.56	0.28	mg/kg	
129-00-0	Pyrene	ND	0.56	0.28	mg/kg	
	C11-C22 Aromatics (Unadj.)	44.9	28	21	mg/kg	
	C11-C22 Aromatics	44.9	28	21	mg/kg	
	C9-C18 Aliphatics	ND	28	14	mg/kg	
	C19-C36 Aliphatics	270	28	14	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	64%		40-140%
580-13-2	2-Bromonaphthalene	71%		40-140%
84-15-1	o-Terphenyl	47%		40-140%
321-60-8	2-Fluorobiphenyl	69%		40-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 E NW		
Lab Sample ID:	FA3839-7	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
		Percent Solids:	72.3
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By		Method	Prep Method
Chromium	37.7	0.59	0.11	mg/kg	1	04/22/13	04/23/13	LM	SW846 6010C [1]	SW846 3050B [2]
Lead	331	1.2	0.064	mg/kg	1	04/22/13	04/23/13	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA10693
(2) Prep QC Batch: MP25004

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	T2 E EW		
Lab Sample ID:	FA3839-8	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	SW846 8260B	**Percent Solids:**	77.2
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0088332.D	1	04/19/13	EP	n/a	n/a	VG3176
Run #2							

	Initial Weight
Run #1	6.20 g
Run #2	

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	0.0881	0.052	0.021	mg/kg	
71-43-2	Benzene	ND	0.0052	0.0010	mg/kg	
108-86-1	Bromobenzene	ND	0.0052	0.0011	mg/kg	
74-97-5	Bromochloromethane	ND	0.0052	0.0015	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0052	0.0015	mg/kg	
75-25-2	Bromoform	ND	0.0052	0.0010	mg/kg	
104-51-8	n-Butylbenzene	0.0264	0.0052	0.0013	mg/kg	
135-98-8	sec-Butylbenzene	0.0093	0.0052	0.0013	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0052	0.0012	mg/kg	
108-90-7	Chlorobenzene	ND	0.0052	0.0010	mg/kg	
75-00-3	Chloroethane	ND	0.0052	0.0021	mg/kg	
67-66-3	Chloroform	ND	0.0052	0.0010	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0052	0.0010	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0052	0.0012	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0052	0.0012	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0052	0.0010	mg/kg	
75-35-4	1,1-Dichloroethylene	ND	0.0052	0.0013	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0052	0.0010	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0052	0.0010	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0052	0.0013	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0052	0.0010	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0052	0.0010	mg/kg	
108-20-3	Di-Isopropyl ether	ND	0.0052	0.0011	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0052	0.0010	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0052	0.0010	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0052	0.0010	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0052	0.0010	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0052	0.0010	mg/kg	
541-73-1	m-Dichlorobenzene	ND	0.0052	0.0010	mg/kg	
95-50-1	o-Dichlorobenzene	ND	0.0052	0.0011	mg/kg	
106-46-7	p-Dichlorobenzene	ND	0.0052	0.0014	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	0.0052	0.0010	mg/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 E EW		
Lab Sample ID:	FA3839-8	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	SW846 8260B	**Percent Solids:**	77.2
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

VOA List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.0052	0.0010	mg/kg	
64-17-5	Ethyl alcohol	ND	0.42	0.068	mg/kg	
100-41-4	Ethylbenzene	0.0090	0.0052	0.0011	mg/kg	
591-78-6	2-Hexanone	ND	0.026	0.0052	mg/kg	
98-82-8	Isopropylbenzene	0.0098	0.0052	0.0014	mg/kg	
99-87-6	p-Isopropyltoluene	0.0052	0.0052	0.0014	mg/kg	
108-10-1	4-Methyl-2-pentanone	ND	0.026	0.0052	mg/kg	
74-83-9	Methyl bromide	ND	0.0052	0.0021	mg/kg	
74-87-3	Methyl chloride	ND	0.0052	0.0022	mg/kg	
75-09-2	Methylene chloride	ND	0.010	0.0048	mg/kg	
78-93-3	Methyl ethyl ketone	ND	0.026	0.0052	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0052	0.0010	mg/kg	
91-20-3	Naphthalene	0.137	0.0052	0.0021	mg/kg	
103-65-1	n-Propylbenzene	0.0505	0.0052	0.0011	mg/kg	
100-42-5	Styrene	ND	0.0052	0.0010	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0052	0.0011	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0052	0.0010	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0052	0.0010	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0052	0.0010	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0052	0.0011	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0052	0.0017	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0052	0.0012	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.157	0.0052	0.0011	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	0.0016	0.0052	0.0011	mg/kg	J
127-18-4	Tetrachloroethylene	ND	0.0052	0.0012	mg/kg	
108-88-3	Toluene	ND	0.0052	0.0010	mg/kg	
79-01-6	Trichloroethylene	ND	0.0052	0.0010	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0052	0.0021	mg/kg	
75-01-4	Vinyl chloride	ND	0.0052	0.0010	mg/kg	
108-05-4	Vinyl Acetate	ND	0.026	0.0043	mg/kg	
1330-20-7	Xylene (total)	ND	0.016	0.0032	mg/kg	
	m,p-Xylene	ND	0.010	0.0022	mg/kg	
95-47-6	o-Xylene	0.0032	0.0052	0.0010	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	123%		75-124%
2037-26-5	Toluene-D8	83%		75-126%
460-00-4	4-Bromofluorobenzene	119%		71-133%
17060-07-0	1,2-Dichloroethane-D4	132%		72-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 E EW		
Lab Sample ID:	FA3839-8	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	77.2
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L062794.D	1	04/23/13	NAF	04/23/13	OP46546	SL3187
Run #2							

	Initial Weight	Final Volume
Run #1	29.9 g	1.0 ml
Run #2		

ABN List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1.1	0.22	mg/kg	
95-57-8	2-Chlorophenol	ND	0.22	0.025	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.22	0.024	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.22	0.024	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.22	0.032	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	1.1	0.22	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.43	0.087	mg/kg	
95-48-7	2-Methylphenol	ND	0.22	0.027	mg/kg	
	3&4-Methylphenol	ND	0.22	0.045	mg/kg	
88-75-5	2-Nitrophenol	ND	0.22	0.032	mg/kg	
100-02-7	4-Nitrophenol	ND	1.1	0.17	mg/kg	
87-86-5	Pentachlorophenol	ND	1.1	0.17	mg/kg	
108-95-2	Phenol	ND	0.22	0.035	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.22	0.028	mg/kg	
83-32-9	Acenaphthene	ND	0.22	0.026	mg/kg	
208-96-8	Acenaphthylene	ND	0.22	0.025	mg/kg	
120-12-7	Anthracene	ND	0.22	0.022	mg/kg	
56-55-3	Benzo(a)anthracene	0.0223	0.22	0.022	mg/kg	J
50-32-8	Benzo(a)pyrene	ND	0.22	0.022	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.22	0.022	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	0.022	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.22	0.026	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.22	0.028	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.22	0.043	mg/kg	
100-51-6	Benzyl Alcohol	ND	0.22	0.043	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.22	0.028	mg/kg	
106-47-8	4-Chloroaniline	ND	0.22	0.033	mg/kg	
218-01-9	Chrysene	ND	0.22	0.022	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.22	0.030	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.22	0.029	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.22	0.025	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.22	0.023	mg/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 E EW		
Lab Sample ID:	FA3839-8	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	77.2
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

ABN List for NC, May 2012

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	0.22	0.022	mg/kg	
122-66-7	1,2-Diphenylhydrazine	ND	0.22	0.024	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.22	0.028	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.22	0.023	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.22	0.036	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	0.022	mg/kg	
132-64-9	Dibenzofuran	ND	0.22	0.022	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.43	0.043	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.22	0.043	mg/kg	
84-66-2	Diethyl phthalate	ND	0.43	0.043	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.22	0.043	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.149	0.43	0.043	mg/kg	J
206-44-0	Fluoranthene	ND	0.22	0.022	mg/kg	
86-73-7	Fluorene	ND	0.22	0.024	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.22	0.022	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.22	0.024	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.22	0.030	mg/kg	
67-72-1	Hexachloroethane	ND	0.22	0.025	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	0.022	mg/kg	
78-59-1	Isophorone	ND	0.22	0.024	mg/kg	
90-12-0	1-Methylnaphthalene	0.0981	0.22	0.030	mg/kg	J
91-57-6	2-Methylnaphthalene	ND	0.22	0.025	mg/kg	
91-20-3	Naphthalene	0.0305	0.22	0.022	mg/kg	J
98-95-3	Nitrobenzene	ND	0.22	0.032	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.22	0.024	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.22	0.043	mg/kg	
85-01-8	Phenanthrene	ND	0.22	0.022	mg/kg	
129-00-0	Pyrene	0.0473	0.22	0.022	mg/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	0.22	0.023	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	56%		40-102%
4165-62-2	Phenol-d5	63%		41-100%
118-79-6	2,4,6-Tribromophenol	73%		42-108%
4165-60-0	Nitrobenzene-d5	55%		40-105%
321-60-8	2-Fluorobiphenyl	62%		43-107%
1718-51-0	Terphenyl-d14	80%		45-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 E EW		
Lab Sample ID:	FA3839-8	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	MADEP VPH REV 1.1	**Percent Solids:**	77.2
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UU002735.D	1	04/25/13	MM	n/a	n/a	GUU146
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.65 g	5.1 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.064	0.064	mg/kg	
100-41-4	Ethylbenzene	ND	0.13	0.064	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.13	0.064	mg/kg	
91-20-3	Naphthalene	0.675	0.32	0.19	mg/kg	B
108-88-3	Toluene	ND	0.13	0.064	mg/kg	
	m,p-Xylene	ND	0.26	0.13	mg/kg	
95-47-6	o-Xylene	ND	0.13	0.064	mg/kg	
	C5- C8 Aliphatics (Unadj.)	ND	6.4	2.3	mg/kg	
	C9- C12 Aliphatics (Unadj.)	ND	6.4	2.3	mg/kg	
	C9- C10 Aromatics (Unadj.)	3.11	6.4	2.3	mg/kg	J
	C5- C8 Aliphatics	ND	6.4	2.3	mg/kg	
	C9- C12 Aliphatics	ND	6.4	2.3	mg/kg	
	C9- C10 Aromatics	3.11	6.4	2.3	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	93%		70-130%
460-00-4	BFB	91%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 E EW		
Lab Sample ID:	FA3839-8	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	77.2
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN004435.D	5	04/25/13	NMC	04/22/13	OP46542	GNN190
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	1.3	0.64	mg/kg	
208-96-8	Acenaphthylene	ND	1.3	0.64	mg/kg	
120-12-7	Anthracene	ND	1.3	0.64	mg/kg	
56-55-3	Benzo(a)anthracene	ND	1.3	0.64	mg/kg	
50-32-8	Benzo(a)pyrene	ND	1.3	0.64	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	1.3	0.64	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	1.3	0.64	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	1.3	0.64	mg/kg	
218-01-9	Chrysene	ND	1.3	0.64	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	1.3	0.64	mg/kg	
206-44-0	Fluoranthene	ND	1.3	0.64	mg/kg	
86-73-7	Fluorene	ND	1.3	0.64	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.3	0.64	mg/kg	
91-57-6	2-Methylnaphthalene	ND	1.3	0.64	mg/kg	
91-20-3	Naphthalene	ND	1.3	0.64	mg/kg	
85-01-8	Phenanthrene	ND	1.3	0.64	mg/kg	
129-00-0	Pyrene	ND	1.3	0.64	mg/kg	
	C11-C22 Aromatics (Unadj.)	ND	64	48	mg/kg	
	C11-C22 Aromatics	ND	64	48	mg/kg	
	C9-C18 Aliphatics	ND	64	32	mg/kg	
	C19-C36 Aliphatics	640	64	32	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	83%		40-140%
580-13-2	2-Bromonaphthalene	82%		40-140%
84-15-1	o-Terphenyl	62%		40-140%
321-60-8	2-Fluorobiphenyl	81%		40-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2 E EW		
Lab Sample ID:	FA3839-8	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
		Percent Solids:	77.2
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By		Method	Prep Method
Chromium	16.2	0.53	0.095	mg/kg	1	04/22/13	04/23/13	LM	SW846 6010C [1]	SW846 3050B [2]
Lead	13.7	1.1	0.058	mg/kg	1	04/22/13	04/23/13	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA10693
(2) Prep QC Batch: MP25004

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	DISP		
Lab Sample ID:	FA3839-9	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	SW846 8015C	**Percent Solids:**	77.7
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR076125.D	1	04/23/13	MM	n/a	n/a	GQR3264
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.46 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	4.94	6.4	3.2	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	117%		56-149%
98-08-8	aaa-Trifluorotoluene	97%		66-132%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DISP		
Lab Sample ID:	FA3839-9	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	77.7
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL47728.D	20	04/24/13	NJ	04/22/13	OP46537	GLL1802
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28) [a]	1310	210	85	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [b]		56-122%

(a) Petroleum hydrocarbon pattern extends beyond C28.
(b) Outside control limits due to dilution.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DISP		
Lab Sample ID:	FA3839-9	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
		Percent Solids:	77.7
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Mercury	0.082	0.052	0.0052	mg/kg	1	04/22/13	04/22/13 JL	SW846 7471B [1]	SW846 7471B [2]

(1) Instrument QC Batch: MA10687
(2) Prep QC Batch: MP24998

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	DISP		
Lab Sample ID:	FA3839-9	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
		Percent Solids:	77.7
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Ignitability (Flashpoint) [a]	> 200		Deg. F	1	04/24/13 07:30	MG	SW846 1010
Solids, Percent	77.7		%	1	04/25/13 11:17	LE	SM19 2540G

(a) Not ignitable.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DISP		
Lab Sample ID:	FA3839-9L	**Date Sampled:**	04/17/13
Matrix:	SO - Soil	**Date Received:**	04/19/13
		Percent Solids:	77.7
Project:	Southern Tire Store Apex; 548 E Williams St, NC		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.025 U	D004	5.0	0.10	0.025	mg/l	1	04/26/13	04/26/13	LM	SW846 6010C [2]
Barium	0.076 J	D005	100	2.0	0.050	mg/l	1	04/26/13	04/26/13	LM	SW846 6010C [2]
Cadmium	0.0050 U	D006	1.0	0.050	0.0050	mg/l	1	04/26/13	04/26/13	LM	SW846 6010C [2]
Chromium	0.020 U	D007	5.0	0.10	0.020	mg/l	1	04/26/13	04/26/13	LM	SW846 6010C [2]
Lead	0.13	D008	5.0	0.050	0.011	mg/l	1	04/26/13	04/26/13	LM	SW846 6010C [2]
Mercury	0.00050 U	D009	0.20	0.0050	0.00050	mg/l	1	04/25/13	04/25/13	JL	SW846 7470A [1]
Selenium	0.020 U	D010	1.0	0.10	0.020	mg/l	1	04/26/13	04/26/13	LM	SW846 6010C [2]
Silver	0.0050 U	D011	5.0	0.10	0.0050	mg/l	1	04/26/13	04/26/13	LM	SW846 6010C [2]

(1) Instrument QC Batch: MA10696
(2) Instrument QC Batch: MA10703
(3) Prep QC Batch: MP25025
(4) Prep QC Batch: MP25028

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) J = Indicates a result > = MDL but < RL

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST.

4405 Vineland Rd., Suite C15
Orlando, FL 32811
Phone: 407-425-6700 Fax: 407-425-0707

Page 1 of 1

Accutest Job #: FA3839

Accutest Control #:

Client Information

Name: Art Davis, EPS of Vermont
Address: 405 South Rogers Ln.
City: Raleigh State: NC Zip: 27610
Send Report to: smiller@hesnc.com
Email: adavis@epsofvermont.com

Facility Information

Project Name: Southern Tire Store - Apex
Location: 548 E. Williams St
Project No.: (SM) ~~(107034 HES#)~~ M3118
Phone #:
FAX #:

Analytical Information

Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	Preservation: NONE	HCL	HNO3	H2SO4	NaOH	DI H2O	Methanol	NaOH	GRO	DRO	8260 (*)	8270 (*)	Pb +Cr	EPH	VPH	8 RCRA Metals	Flashpoint		
1 T1SF	4-17-13	1120	SM	Soil	6	2						2	2	X	X	X	X							
2 T1NF		1124	SM	Soil	6	2						2	2	X	X	X	X							
3 T2F		1600			3	1							2	X	X			X						
4 T2ESW		1700			7	3						2	2			X	X	X	X	X				
5 T2EWW		1740			7	3						2	2			X	X	X	X	X				
6 T2EF		1747			7	3						2	2			X	X	X	X	X				
7 T2ENW		1757			7	3						2	2			X	X	X	X	X				
8 T2E EW		1812			7	3						2	2			X	X	X	X	X				
9 DISP		1900												X	X						X	X		
																								(SM)

Turnaround Time (Business Days)

- [x] 7 Day STD
- [ ] 3 Day RUSH
- [ ] Other _____ (Days)

Approved By:

RUSH TAT is by Email only
Data unless previously approved.

Data Deliverable Information

- [ ] Level I (Results only)
- [x] Level II (Results + QC)
- [ ] Level III (Full Data Package less Raw Data)
- [ ] Level IV (Full Data Package plus Raw Data)
- [ ] EDD

Comments / Remarks

RALEIGH, NC (*) PLEASE BILL EPS of VT:
PO # 6083M

SVC CENTER (**) HOLD these 8260/8270 pending GRO/DRO results

Sample Custody must be documented below each time samples change possession (including courier delivery).

Relinquished By:	Date/Time:	Received By:	Date/Time:	Relinquished By:	Date/Time:	Received By:	Date/Time:
1 Sandra K Miller	4-18-13 1755	1 Brent Nader	4/18/13 1755	2 Brent Nader	4/18/13 1800	2 FK	4/18/13 1800
3 FK	04/19/13 1030	3 K Miller		4		4	
5		5					

Lab use only: Custody Seal Intact: YES [ ] NO [ ] Cooler Temperature(s) °C 2.2, 2.0

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA3839 CLIENT: EPS PROJECT: Southern tire Store

DATE/TIME RECEIVED: 04-19-13 1030 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 2

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7995 6367 7950/8100

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [x] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM____ 5-GRAM____

NUMBER OF 5035 FIELD KITS ? 9

NUMBER OF LAB FILTERED METALS ? ____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 3 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 6.8 1.6
- [ ] CORRECTED TEMPS: 2.2, 2.0

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE R Willen 04-19-13 REVIEWER SIGNATURE/DATE [signature] 04/19/13

NF 12/10 receipt confirmation 122910.xls

4.1 4

FA3839: Chain of Custody
Page 2 of 3

ACCUTEST LABORATORIES FA3839

Job Change Order: FA3839_4/22/2013

Requested Date:	4/22/2013	**Received Date:**	4/19/2013
Account Name:	EPS of Vermont, Inc	**Due Date:**	4/26/2013
Project Description:	Southern Tire Store Apex; 548 E Williams St, NC	**Deliverable:**	COMMB
CSR:	AC	**TAT (Days):**	4

Sample #: FA3839-9

Change: Please analyze sample for TCLP metals. Cancel total metals.

DISP

Above Changes Art Davis **Date:** 4/22/2013

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3176-MB	G0088316.D	1	04/19/13	EP	n/a	n/a	VG3176

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA3839-4, FA3839-5, FA3839-6, FA3839-7, FA3839-8

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	20	ug/kg	
71-43-2	Benzene	ND	5.0	1.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.1	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.4	ug/kg	
75-25-2	Bromoform	ND	5.0	1.0	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.2	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.2	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.2	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
64-17-5	Ethyl alcohol	ND	400	65	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.1	ug/kg	
591-78-6	2-Hexanone	ND	25	5.0	ug/kg	

Method Blank Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3176-MB	G0088316.D	1	04/19/13	EP	n/a	n/a	VG3176

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA3839-4, FA3839-5, FA3839-6, FA3839-7, FA3839-8

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	5.0	1.3	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.3	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.1	ug/kg	
75-09-2	Methylene chloride	ND	10	4.6	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	5.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.0	ug/kg	
100-42-5	Styrene	ND	5.0	1.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.1	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.6	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.2	ug/kg	
108-88-3	Toluene	ND	5.0	1.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
108-05-4	Vinyl Acetate	ND	25	4.1	ug/kg	
1330-20-7	Xylene (total)	ND	15	3.1	ug/kg	
	m,p-Xylene	ND	10	2.1	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	75-124%
2037-26-5	Toluene-D8	86%	75-126%
460-00-4	4-Bromofluorobenzene	99%	71-133%

Method Blank Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3176-MB	G0088316.D	1	04/19/13	EP	n/a	n/a	VG3176

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA3839-4, FA3839-5, FA3839-6, FA3839-7, FA3839-8

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4	112%	72-135%

Blank Spike Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3176-BS	G0088315.D	1	04/19/13	EP	n/a	n/a	VG3176

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA3839-4, FA3839-5, FA3839-6, FA3839-7, FA3839-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	299	120	61-152
71-43-2	Benzene	50	54.3	109	76-126
108-86-1	Bromobenzene	50	54.5	109	76-122
74-97-5	Bromochloromethane	50	53.4	107	77-120
75-27-4	Bromodichloromethane	50	61.8	124	74-130
75-25-2	Bromoform	50	50.6	101	76-127
104-51-8	n-Butylbenzene	50	56.3	113	71-128
135-98-8	sec-Butylbenzene	50	56.6	113	79-135
98-06-6	tert-Butylbenzene	50	59.6	119	77-133
108-90-7	Chlorobenzene	50	57.8	116	81-129
75-00-3	Chloroethane	50	53.2	106	68-133
67-66-3	Chloroform	50	56.3	113	72-123
95-49-8	o-Chlorotoluene	50	56.4	113	77-129
106-43-4	p-Chlorotoluene	50	59.0	118	80-134
56-23-5	Carbon tetrachloride	50	62.5	125	78-133
75-34-3	1,1-Dichloroethane	50	53.5	107	73-125
75-35-4	1,1-Dichloroethylene	50	61.1	122	81-136
563-58-6	1,1-Dichloropropene	50	58.5	117	75-130
106-93-4	1,2-Dibromoethane	50	55.1	110	77-126
107-06-2	1,2-Dichloroethane	50	61.4	123	74-128
78-87-5	1,2-Dichloropropane	50	51.7	103	74-125
142-28-9	1,3-Dichloropropane	50	52.0	104	76-122
108-20-3	Di-Isopropyl ether	50	49.0	98	75-122
594-20-7	2,2-Dichloropropane	50	57.7	115	77-133
124-48-1	Dibromochloromethane	50	59.0	118	76-127
75-71-8	Dichlorodifluoromethane	50	52.3	105	68-168
156-59-2	cis-1,2-Dichloroethylene	50	53.2	106	74-126
10061-01-5	cis-1,3-Dichloropropene	50	54.6	109	80-123
541-73-1	m-Dichlorobenzene	50	58.1	116	81-129
95-50-1	o-Dichlorobenzene	50	57.8	116	80-129
106-46-7	p-Dichlorobenzene	50	53.7	107	76-130
156-60-5	trans-1,2-Dichloroethylene	50	56.6	113	70-127
10061-02-6	trans-1,3-Dichloropropene	50	52.1	104	75-131
64-17-5	Ethyl alcohol	1000	1120	112	53-154
100-41-4	Ethylbenzene	50	56.1	112	77-123
591-78-6	2-Hexanone	250	287	115	72-133

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3176-BS	G0088315.D	1	04/19/13	EP	n/a	n/a	VG3176

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA3839-4, FA3839-5, FA3839-6, FA3839-7, FA3839-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
98-82-8	Isopropylbenzene	50	50.1	100	80-136
99-87-6	p-Isopropyltoluene	50	58.0	116	77-131
108-10-1	4-Methyl-2-pentanone	250	248	99	76-132
74-83-9	Methyl bromide	50	63.8	128	65-139
74-87-3	Methyl chloride	50	50.4	101	71-144
75-09-2	Methylene chloride	50	55.8	112	74-137
78-93-3	Methyl ethyl ketone	250	294	118	75-137
1634-04-4	Methyl Tert Butyl Ether	50	52.5	105	77-120
91-20-3	Naphthalene	50	53.1	106	79-129
103-65-1	n-Propylbenzene	50	59.0	118	80-135
100-42-5	Styrene	50	45.6	91	78-125
630-20-6	1,1,1,2-Tetrachloroethane	50	59.4	119	78-126
71-55-6	1,1,1-Trichloroethane	50	59.2	118	70-129
79-34-5	1,1,2,2-Tetrachloroethane	50	53.5	107	71-126
79-00-5	1,1,2-Trichloroethane	50	48.1	96	74-124
87-61-6	1,2,3-Trichlorobenzene	50	53.2	106	77-128
96-18-4	1,2,3-Trichloropropane	50	54.9	110	74-127
120-82-1	1,2,4-Trichlorobenzene	50	55.1	110	78-130
95-63-6	1,2,4-Trimethylbenzene	50	53.1	106	74-123
108-67-8	1,3,5-Trimethylbenzene	50	54.2	108	73-122
127-18-4	Tetrachloroethylene	50	50.6	101	79-130
108-88-3	Toluene	50	46.0	92	76-124
79-01-6	Trichloroethylene	50	55.5	111	75-128
75-69-4	Trichlorofluoromethane	50	62.9	126	73-145
75-01-4	Vinyl chloride	50	54.3	109	76-141
108-05-4	Vinyl Acetate	250	293	117	48-164
1330-20-7	Xylene (total)	150	165	110	80-129
	m,p-Xylene	100	116	116	80-128
95-47-6	o-Xylene	50	48.5	97	80-132

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	108%	75-124%
2037-26-5	Toluene-D8	86%	75-126%
460-00-4	4-Bromofluorobenzene	102%	71-133%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3176-BS	G0088315.D	1	04/19/13	EP	n/a	n/a	VG3176

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA3839-4, FA3839-5, FA3839-6, FA3839-7, FA3839-8

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	112%	72-135%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA3814-1MS	G0088323.D	1	04/19/13	EP	n/a	n/a	VG3176
FA3814-1MSD	G0088324.D	1	04/19/13	EP	n/a	n/a	VG3176
FA3814-1	G0088319.D	1	04/19/13	EP	n/a	n/a	VG3176

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA3839-4, FA3839-5, FA3839-6, FA3839-7, FA3839-8

CAS No.	Compound	FA3814-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	38 U		217	195	90	194	87	1	61-152/27
71-43-2	Benzene	3.8 U		43.5	42.6	98	39.5	89	8	76-126/26
108-86-1	Bromobenzene	3.8 U		43.5	56.1	129*	37.5	84	40*	76-122/32
74-97-5	Bromochloromethane	3.8 U		43.5	42.0	97	39.8	89	5	77-120/24
75-27-4	Bromodichloromethane	3.8 U		43.5	46.2	106	40.9	92	12	74-130/25
75-25-2	Bromoform	3.8 U		43.5	42.3	97	42.6	96	1	76-127/26
104-51-8	n-Butylbenzene	3.8 U		43.5	39.9	92	31.6	71	23	71-128/35
135-98-8	sec-Butylbenzene	3.8 U		43.5	44.2	102	34.0	76*	26	79-135/34
98-06-6	tert-Butylbenzene	3.8 U		43.5	48.3	111	38.1	86	24	77-133/34
108-90-7	Chlorobenzene	3.8 U		43.5	46.2	106	40.1	90	14	81-129/29
75-00-3	Chloroethane	3.8 U		43.5	42.2	97	39.1	88	8	68-133/29
67-66-3	Chloroform	3.8 U		43.5	45.9	106	41.2	93	11	72-123/26
95-49-8	o-Chlorotoluene	3.8 U		43.5	59.2	136*	36.6	82	47*	77-129/33
106-43-4	p-Chlorotoluene	3.8 U		43.5	58.9	136*	38.0	85	43*	80-134/33
56-23-5	Carbon tetrachloride	3.8 U		43.5	52.7	121	44.9	101	16	78-133/29
75-34-3	1,1-Dichloroethane	3.8 U		43.5	43.9	101	39.2	88	11	73-125/27
75-35-4	1,1-Dichloroethylene	3.8 U		43.5	50.2	116	45.7	103	9	81-136/28
563-58-6	1,1-Dichloropropene	3.8 U		43.5	47.2	109	41.9	94	12	75-130/28
106-93-4	1,2-Dibromoethane	3.8 U		43.5	37.4	86	36.2	81	3	77-126/26
107-06-2	1,2-Dichloroethane	3.8 U		43.5	46.1	106	43.1	97	7	74-128/23
78-87-5	1,2-Dichloropropane	3.8 U		43.5	40.7	94	37.4	84	8	74-125/25
142-28-9	1,3-Dichloropropane	3.8 U		43.5	37.6	87	36.1	81	4	76-122/26
108-20-3	Di-Isopropyl ether	3.8 U		43.5	38.5	89	35.8	80	7	75-122/25
594-20-7	2,2-Dichloropropane	3.8 U		43.5	47.4	109	43.5	98	9	77-133/28
124-48-1	Dibromochloromethane	3.8 U		43.5	42.7	98	38.1	86	11	76-127/27
75-71-8	Dichlorodifluoromethane	3.8 U		43.5	43.0	99	37.4	84	14	68-168/29
156-59-2	cis-1,2-Dichloroethylene	3.8 U		43.5	43.7	101	38.6	87	12	74-126/26
10061-01-5	cis-1,3-Dichloropropene	3.8 U		43.5	42.2	97	38.2	86	10	80-123/26
541-73-1	m-Dichlorobenzene	3.8 U		43.5	47.9	110	37.6	85	24	81-129/33
95-50-1	o-Dichlorobenzene	3.8 U		43.5	43.9	101	36.3	82	19	80-129/32
106-46-7	p-Dichlorobenzene	3.8 U		43.5	44.0	101	35.3	79	22	76-130/32
156-60-5	trans-1,2-Dichloroethylene	3.8 U		43.5	44.9	103	40.5	91	10	70-127/27
10061-02-6	trans-1,3-Dichloropropene	3.8 U		43.5	38.3	88	35.7	80	7	75-131/28
64-17-5	Ethyl alcohol	300 U		869	907	104	969	109	7	53-154/42
100-41-4	Ethylbenzene	3.8 U		43.5	47.0	108	39.7	89	17	77-123/31
591-78-6	2-Hexanone	19 U		217	181	83	186	84	3	72-133/26

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA3814-1MS	G0088323.D	1	04/19/13	EP	n/a	n/a	VG3176
FA3814-1MSD	G0088324.D	1	04/19/13	EP	n/a	n/a	VG3176
FA3814-1	G0088319.D	1	04/19/13	EP	n/a	n/a	VG3176

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA3839-4, FA3839-5, FA3839-6, FA3839-7, FA3839-8

CAS No.	Compound	FA3814-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
98-82-8	Isopropylbenzene	3.8 U		43.5	48.7	112	40.8	92	18	80-136/32
99-87-6	p-Isopropyltoluene	3.8 U		43.5	47.1	108	37.2	84	23	77-131/34
108-10-1	4-Methyl-2-pentanone	19 U		217	161	74*	167	75*	4	76-132/26
74-83-9	Methyl bromide	3.8 U		43.5	48.8	112	45.4	102	7	65-139/31
74-87-3	Methyl chloride	3.8 U		43.5	39.1	90	37.5	84	4	71-144/27
75-09-2	Methylene chloride	7.6 U		43.5	43.3	100	41.5	93	4	74-137/28
78-93-3	Methyl ethyl ketone	19 U		217	177	81	192	86	8	75-137/25
1634-04-4	Methyl Tert Butyl Ether	3.8 U		43.5	38.8	89	37.6	85	3	77-120/24
91-20-3	Naphthalene	3.8 U		43.5	37.8	87	32.8	74*	14	79-129/33
103-65-1	n-Propylbenzene	3.8 U		43.5	62.1	143*	37.7	85	49*	80-135/33
100-42-5	Styrene	3.8 U		43.5	44.6	103	37.9	85	16	78-125/30
630-20-6	1,1,1,2-Tetrachloroethane	3.8 U		43.5	47.0	108	41.8	94	12	78-126/27
71-55-6	1,1,1-Trichloroethane	3.8 U		43.5	50.9	117	45.6	103	11	70-129/27
79-34-5	1,1,2,2-Tetrachloroethane	3.8 U		43.5	47.7	110	34.2	77	33*	71-126/30
79-00-5	1,1,2-Trichloroethane	3.8 U		43.5	36.6	84	34.9	78	5	74-124/28
87-61-6	1,2,3-Trichlorobenzene	3.8 U		43.5	30.2	69*	29.3	66*	3	77-128/35
96-18-4	1,2,3-Trichloropropane	3.8 U		43.5	50.7	117	39.1	88	26	74-127/27
120-82-1	1,2,4-Trichlorobenzene	3.8 U		43.5	34.7	80	31.4	71*	10	78-130/34
95-63-6	1,2,4-Trimethylbenzene	3.3	I	43.5	58.3	127*	40.3	83	37*	74-123/34
108-67-8	1,3,5-Trimethylbenzene	1.2	I	43.5	62.4	141*	36.4	79	53*	73-122/33
127-18-4	Tetrachloroethylene	3.8 U		43.5	38.9	90	32.7	74*	17	79-130/31
108-88-3	Toluene	3.8 U		43.5	37.1	85	39.8	89	7	76-124/30
79-01-6	Trichloroethylene	3.8 U		43.5	46.2	106	40.7	92	13	75-128/27
75-69-4	Trichlorofluoromethane	3.8 U		43.5	53.0	122	46.6	105	13	73-145/31
75-01-4	Vinyl chloride	3.8 U		43.5	43.3	100	40.2	90	7	76-141/27
108-05-4	Vinyl Acetate	19 U		217	25.5	12*	24.1	11*	6	48-164/37
1330-20-7	Xylene (total)	11 U		130	147	113	125	94	16	80-129/30
	m,p-Xylene	7.6 U		86.9	98.2	113	83.1	93	17	80-128/30
95-47-6	o-Xylene	3.8 U		43.5	49.2	113	42.3	95	15	80-132/30

CAS No.	Surrogate Recoveries	MS	MSD	FA3814-1	Limits
1868-53-7	Dibromofluoromethane	105%	108%	102%	75-124%
2037-26-5	Toluene-D8	83%	103%	82%	75-126%
460-00-4	4-Bromofluorobenzene	124%	99%	102%	71-133%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA3814-1MS	G0088323.D	1	04/19/13	EP	n/a	n/a	VG3176
FA3814-1MSD	G0088324.D	1	04/19/13	EP	n/a	n/a	VG3176
FA3814-1	G0088319.D	1	04/19/13	EP	n/a	n/a	VG3176

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA3839-4, FA3839-5, FA3839-6, FA3839-7, FA3839-8

CAS No.	Surrogate Recoveries	MS	MSD	FA3814-1	Limits
17060-07-0	1,2-Dichloroethane-D4	102%	107%	113%	72-135%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46544-MB	X028013.D	1	04/23/13	FS	04/22/13	OP46544	SX1346

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA3839-4, FA3839-5, FA3839-6, FA3839-7

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	170	ug/kg	
95-57-8	2-Chlorophenol	ND	170	20	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	18	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	19	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	24	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	21	ug/kg	
	3&4-Methylphenol	ND	170	35	ug/kg	
88-75-5	2-Nitrophenol	ND	170	25	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	130	ug/kg	
108-95-2	Phenol	ND	170	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	21	ug/kg	
83-32-9	Acenaphthene	ND	170	20	ug/kg	
208-96-8	Acenaphthylene	ND	170	19	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	20	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	21	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	22	ug/kg	
106-47-8	4-Chloroaniline	ND	170	25	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	23	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	23	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	19	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	18	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	22	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	18	ug/kg	

Method Blank Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46544-MB	X028013.D	1	04/23/13	FS	04/22/13	OP46544	SX1346

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA3839-4, FA3839-5, FA3839-6, FA3839-7

CAS No.	Compound	Result	RL	MDL	Units	Q
91-94-1	3,3'-Dichlorobenzidine	ND	170	28	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	33	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	18	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	23	ug/kg	
67-72-1	Hexachloroethane	ND	170	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	18	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	23	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	19	ug/kg	
91-20-3	Naphthalene	ND	170	17	ug/kg	
98-95-3	Nitrobenzene	ND	170	24	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	33	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	18	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	61%	40-102%
4165-62-2	Phenol-d5	71%	41-100%
118-79-6	2,4,6-Tribromophenol	75%	42-108%
4165-60-0	Nitrobenzene-d5	75%	40-105%
321-60-8	2-Fluorobiphenyl	70%	43-107%
1718-51-0	Terphenyl-d14	91%	45-119%

Method Blank Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46546-MB	L062793.D	1	04/23/13	NAF	04/23/13	OP46546	SL3187

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA3839-8

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	170	ug/kg	
95-57-8	2-Chlorophenol	ND	170	20	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	18	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	19	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	24	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	21	ug/kg	
	3&4-Methylphenol	ND	170	35	ug/kg	
88-75-5	2-Nitrophenol	ND	170	25	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	130	ug/kg	
108-95-2	Phenol	ND	170	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	21	ug/kg	
83-32-9	Acenaphthene	ND	170	20	ug/kg	
208-96-8	Acenaphthylene	ND	170	19	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	20	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	21	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	22	ug/kg	
106-47-8	4-Chloroaniline	ND	170	25	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	23	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	23	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	19	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	18	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	22	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	18	ug/kg	

Method Blank Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46546-MB	L062793.D	1	04/23/13	NAF	04/23/13	OP46546	SL3187

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA3839-8

CAS No.	Compound	Result	RL	MDL	Units	Q
91-94-1	3,3'-Dichlorobenzidine	ND	170	28	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	33	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	18	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	23	ug/kg	
67-72-1	Hexachloroethane	ND	170	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	18	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	23	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	19	ug/kg	
91-20-3	Naphthalene	ND	170	17	ug/kg	
98-95-3	Nitrobenzene	ND	170	24	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	33	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	18	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	61%	40-102%
4165-62-2	Phenol-d5	68%	41-100%
118-79-6	2,4,6-Tribromophenol	75%	42-108%
4165-60-0	Nitrobenzene-d5	60%	40-105%
321-60-8	2-Fluorobiphenyl	65%	43-107%
1718-51-0	Terphenyl-d14	80%	45-119%

Blank Spike Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46544-BS	X028012.D	1	04/23/13	FS	04/22/13	OP46544	SX1346

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA3839-4, FA3839-5, FA3839-6, FA3839-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic Acid	3330	2120	64	36-118
95-57-8	2-Chlorophenol	1670	1240	74	48-104
59-50-7	4-Chloro-3-methyl phenol	1670	1350	81	52-108
120-83-2	2,4-Dichlorophenol	1670	1370	82	51-105
105-67-9	2,4-Dimethylphenol	1670	1240	74	43-96
51-28-5	2,4-Dinitrophenol	3330	2470	74	40-119
534-52-1	4,6-Dinitro-o-cresol	3330	2710	81	64-121
95-48-7	2-Methylphenol	1670	1280	77	46-107
	3&4-Methylphenol	3330	2570	77	44-111
88-75-5	2-Nitrophenol	1670	1310	79	49-104
100-02-7	4-Nitrophenol	3330	2560	77	56-116
87-86-5	Pentachlorophenol	3330	2540	76	61-114
108-95-2	Phenol	1670	1310	79	45-110
88-06-2	2,4,6-Trichlorophenol	1670	1360	82	56-109
83-32-9	Acenaphthene	2330	1800	77	56-109
208-96-8	Acenaphthylene	1670	1330	80	56-106
120-12-7	Anthracene	2330	1870	80	61-110
56-55-3	Benzo(a)anthracene	2330	1990	85	66-111
50-32-8	Benzo(a)pyrene	2330	1890	81	59-104
205-99-2	Benzo(b)fluoranthene	2330	2020	87	67-113
191-24-2	Benzo(g,h,i)perylene	2330	2090	90	67-113
207-08-9	Benzo(k)fluoranthene	2330	2040	87	67-114
101-55-3	4-Bromophenyl phenyl ether	1670	1420	85	62-110
85-68-7	Butyl benzyl phthalate	1670	1400	84	65-113
100-51-6	Benzyl Alcohol	1670	1400	84	53-108
91-58-7	2-Chloronaphthalene	1670	1290	77	53-106
106-47-8	4-Chloroaniline	1670	1290	77	30-115
218-01-9	Chrysene	2330	1970	84	65-112
111-91-1	bis(2-Chloroethoxy)methane	1670	1250	75	48-105
111-44-4	bis(2-Chloroethyl)ether	1670	1170	70	46-103
108-60-1	bis(2-Chloroisopropyl)ether	1670	1120	67	40-110
7005-72-3	4-Chlorophenyl phenyl ether	1670	1380	83	58-106
95-50-1	1,2-Dichlorobenzene	1670	1200	72	44-102
122-66-7	1,2-Diphenylhydrazine	1670	1300	78	58-112
541-73-1	1,3-Dichlorobenzene	1670	1210	73	42-100
106-46-7	1,4-Dichlorobenzene	1670	1180	71	40-106

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46544-BS	X028012.D	1	04/23/13	FS	04/22/13	OP46544	SX1346

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA3839-4, FA3839-5, FA3839-6, FA3839-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
91-94-1	3,3'-Dichlorobenzidine	1670	1220	73	36-114
53-70-3	Dibenzo(a,h)anthracene	2330	2200	94	68-115
132-64-9	Dibenzofuran	1670	1410	85	57-108
84-74-2	Di-n-butyl phthalate	1670	1390	83	63-108
117-84-0	Di-n-octyl phthalate	1670	1380	83	64-119
84-66-2	Diethyl phthalate	1670	1370	82	61-109
131-11-3	Dimethyl phthalate	1670	1400	84	59-108
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1370	82	64-115
206-44-0	Fluoranthene	1670	1440	86	60-108
86-73-7	Fluorene	2330	1840	79	58-109
118-74-1	Hexachlorobenzene	1670	1350	81	59-111
87-68-3	Hexachlorobutadiene	1670	1210	73	41-108
77-47-4	Hexachlorocyclopentadiene	1670	1050	63	49-110
67-72-1	Hexachloroethane	1670	1160	70	40-105
193-39-5	Indeno(1,2,3-cd)pyrene	2330	2130	91	66-116
78-59-1	Isophorone	1670	1070	64	42-89
90-12-0	1-Methylnaphthalene	1670	1290	77	49-106
91-57-6	2-Methylnaphthalene	1670	1300	78	47-106
91-20-3	Naphthalene	1670	1180	71	44-104
98-95-3	Nitrobenzene	1670	1220	73	43-108
621-64-7	N-Nitroso-di-n-propylamine	1670	1210	73	48-108
86-30-6	N-Nitrosodiphenylamine	1670	1410	85	62-110
85-01-8	Phenanthrene	2330	1940	83	63-111
129-00-0	Pyrene	2330	1950	84	65-115
120-82-1	1,2,4-Trichlorobenzene	1670	1210	73	45-100

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	72%	40-102%
4165-62-2	Phenol-d5	77%	41-100%
118-79-6	2,4,6-Tribromophenol	80%	42-108%
4165-60-0	Nitrobenzene-d5	72%	40-105%
321-60-8	2-Fluorobiphenyl	73%	43-107%
1718-51-0	Terphenyl-d14	86%	45-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46546-BS	L062792.D	1	04/23/13	NAF	04/23/13	OP46546	SL3187

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA3839-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic Acid	3330	2370	71	36-118
95-57-8	2-Chlorophenol	1670	1140	68	48-104
59-50-7	4-Chloro-3-methyl phenol	1670	1190	71	52-108
120-83-2	2,4-Dichlorophenol	1670	1180	71	51-105
105-67-9	2,4-Dimethylphenol	1670	1130	68	43-96
51-28-5	2,4-Dinitrophenol	3330	2610	78	40-119
534-52-1	4,6-Dinitro-o-cresol	3330	3070	92	64-121
95-48-7	2-Methylphenol	1670	1170	70	46-107
	3&4-Methylphenol	3330	2310	69	44-111
88-75-5	2-Nitrophenol	1670	1130	68	49-104
100-02-7	4-Nitrophenol	3330	2450	74	56-116
87-86-5	Pentachlorophenol	3330	2730	82	61-114
108-95-2	Phenol	1670	1190	71	45-110
88-06-2	2,4,6-Trichlorophenol	1670	1210	73	56-109
83-32-9	Acenaphthene	2330	1570	67	56-109
208-96-8	Acenaphthylene	1670	1220	73	56-106
120-12-7	Anthracene	2330	1540	66	61-110
56-55-3	Benzo(a)anthracene	2330	1710	73	66-111
50-32-8	Benzo(a)pyrene	2330	1570	67	59-104
205-99-2	Benzo(b)fluoranthene	2330	1600	69	67-113
191-24-2	Benzo(g,h,i)perylene	2330	1590	68	67-113
207-08-9	Benzo(k)fluoranthene	2330	1560	67	67-114
101-55-3	4-Bromophenyl phenyl ether	1670	1250	75	62-110
85-68-7	Butyl benzyl phthalate	1670	1250	75	65-113
100-51-6	Benzyl Alcohol	1670	1170	70	53-108
91-58-7	2-Chloronaphthalene	1670	1140	68	53-106
106-47-8	4-Chloroaniline	1670	1010	61	30-115
218-01-9	Chrysene	2330	1650	71	65-112
111-91-1	bis(2-Chloroethoxy)methane	1670	1130	68	48-105
111-44-4	bis(2-Chloroethyl)ether	1670	1100	66	46-103
108-60-1	bis(2-Chloroisopropyl)ether	1670	1100	66	40-110
7005-72-3	4-Chlorophenyl phenyl ether	1670	1190	71	58-106
95-50-1	1,2-Dichlorobenzene	1670	1100	66	44-102
122-66-7	1,2-Diphenylhydrazine	1670	1190	71	58-112
541-73-1	1,3-Dichlorobenzene	1670	1090	65	42-100
106-46-7	1,4-Dichlorobenzene	1670	1100	66	40-106

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46546-BS	L062792.D	1	04/23/13	NAF	04/23/13	OP46546	SL3187

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA3839-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
91-94-1	3,3'-Dichlorobenzidine	1670	1110	67	36-114
53-70-3	Dibenzo(a,h)anthracene	2330	1660	71	68-115
132-64-9	Dibenzofuran	1670	1180	71	57-108
84-74-2	Di-n-butyl phthalate	1670	1230	74	63-108
117-84-0	Di-n-octyl phthalate	1670	1150	69	64-119
84-66-2	Diethyl phthalate	1670	1240	74	61-109
131-11-3	Dimethyl phthalate	1670	1220	73	59-108
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1280	77	64-115
206-44-0	Fluoranthene	1670	1400	84	60-108
86-73-7	Fluorene	2330	1680	72	58-109
118-74-1	Hexachlorobenzene	1670	1230	74	59-111
87-68-3	Hexachlorobutadiene	1670	1110	67	41-108
77-47-4	Hexachlorocyclopentadiene	1670	1190	71	49-110
67-72-1	Hexachloroethane	1670	1080	65	40-105
193-39-5	Indeno(1,2,3-cd)pyrene	2330	1750	75	66-116
78-59-1	Isophorone	1670	983	59	42-89
90-12-0	1-Methylnaphthalene	1670	1150	69	49-106
91-57-6	2-Methylnaphthalene	1670	1100	66	47-106
91-20-3	Naphthalene	1670	1150	69	44-104
98-95-3	Nitrobenzene	1670	1100	66	43-108
621-64-7	N-Nitroso-di-n-propylamine	1670	1170	70	48-108
86-30-6	N-Nitrosodiphenylamine	1670	1200	72	62-110
85-01-8	Phenanthrene	2330	1670	72	63-111
129-00-0	Pyrene	2330	1780	76	65-115
120-82-1	1,2,4-Trichlorobenzene	1670	1090	65	45-100

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	65%	40-102%
4165-62-2	Phenol-d5	70%	41-100%
118-79-6	2,4,6-Tribromophenol	77%	42-108%
4165-60-0	Nitrobenzene-d5	63%	40-105%
321-60-8	2-Fluorobiphenyl	69%	43-107%
1718-51-0	Terphenyl-d14	86%	45-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46544-MS	X028034.D	1	04/23/13	FS	04/22/13	OP46544	SX1346
OP46544-MSD	X028035.D	1	04/23/13	FS	04/22/13	OP46544	SX1346
FA3839-7	X028033.D	1	04/23/13	FS	04/22/13	OP46544	SX1346

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA3839-4, FA3839-5, FA3839-6, FA3839-7

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CAS No.	Compound	FA3839-7 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		4610	1090	24*	1450	32*	28	36-118/41
95-57-8	2-Chlorophenol	ND		2310	1320	57	1830	80	32*	48-104/26
59-50-7	4-Chloro-3-methyl phenol	ND		2310	1500	65	1940	84	26*	52-108/21
120-83-2	2,4-Dichlorophenol	ND		2310	1490	65	1870	81	23	51-105/27
105-67-9	2,4-Dimethylphenol	ND		2310	1460	63	1820	79	22	43-96/23
51-28-5	2,4-Dinitrophenol	ND		4610	371	8*	497	11*	29	40-119/32
534-52-1	4,6-Dinitro-o-cresol	ND		4610	272	6*	350	8*	25	64-121/29
95-48-7	2-Methylphenol	ND		2310	1360	59	1780	77	27*	46-107/24
	3&4-Methylphenol	ND		4610	2710	59	3610	79	28*	44-111/24
88-75-5	2-Nitrophenol	ND		2310	1230	53	1560	68	24	49-104/27
100-02-7	4-Nitrophenol	ND		4610	2620	57	3950	86	40*	56-116/23
87-86-5	Pentachlorophenol	ND		4610	2820	61	4360	95	43*	61-114/23
108-95-2	Phenol	ND		2310	1380	60	1830	80	28*	45-110/24
88-06-2	2,4,6-Trichlorophenol	ND		2310	1510	66	2040	89	30*	56-109/25
83-32-9	Acenaphthene	ND		3230	2050	64	2680	83	27*	56-109/23
208-96-8	Acenaphthylene	ND		2310	1520	66	1980	86	26*	56-106/23
120-12-7	Anthracene	ND		3230	2100	65	2800	87	29*	61-110/21
56-55-3	Benzo(a)anthracene	ND		3230	2170	67	2920	91	29*	66-111/23
50-32-8	Benzo(a)pyrene	ND		3230	1990	62	2770	86	33*	59-104/23
205-99-2	Benzo(b)fluoranthene	ND		3230	2100	65*	2890	90	32*	67-113/24
191-24-2	Benzo(g,h,i)perylene	120	J	3230	2150	63*	2970	89	32*	67-113/21
207-08-9	Benzo(k)fluoranthene	ND		3230	2040	63*	2880	90	34*	67-114/22
101-55-3	4-Bromophenyl phenyl ether	ND		2310	1570	68	2050	89	27*	62-110/21
85-68-7	Butyl benzyl phthalate	ND		2310	1600	69	2140	93	29*	65-113/20
100-51-6	Benzyl Alcohol	ND		2310	1440	62	1910	83	28*	53-108/24
91-58-7	2-Chloronaphthalene	ND		2310	1510	66	1890	82	22	53-106/23
106-47-8	4-Chloroaniline	ND		2310	1440	62	1880	82	27	30-115/30
218-01-9	Chrysene	ND		3230	2110	65	2860	89	30*	65-112/25
111-91-1	bis(2-Chloroethoxy)methane	ND		2310	1360	59	1750	76	25*	48-105/24
111-44-4	bis(2-Chloroethyl)ether	ND		2310	1310	57	1770	77	30*	46-103/27
108-60-1	bis(2-Chloroisopropyl)ether	ND		2310	1310	57	1790	78	31*	40-110/25
7005-72-3	4-Chlorophenyl phenyl ether	ND		2310	1540	67	2010	87	26*	58-106/21
95-50-1	1,2-Dichlorobenzene	ND		2310	1330	58	1770	77	28	44-102/28
122-66-7	1,2-Diphenylhydrazine	ND		2310	1520	66	2000	87	27*	58-112/22
541-73-1	1,3-Dichlorobenzene	ND		2310	1320	57	1760	77	29	42-100/30
106-46-7	1,4-Dichlorobenzene	ND		2310	1340	58	1820	79	30*	40-106/29

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46544-MS	X028034.D	1	04/23/13	FS	04/22/13	OP46544	SX1346
OP46544-MSD	X028035.D	1	04/23/13	FS	04/22/13	OP46544	SX1346
FA3839-7	X028033.D	1	04/23/13	FS	04/22/13	OP46544	SX1346

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA3839-4, FA3839-5, FA3839-6, FA3839-7

CAS No.	Compound	FA3839-7 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
91-94-1	3,3'-Dichlorobenzidine	ND		2310	1130	49	1990	87	55*	36-114/28
53-70-3	Dibenzo(a,h)anthracene	ND		3230	2200	68	3140	98	35*	68-115/23
132-64-9	Dibenzofuran	ND		2310	1600	69	2080	91	26*	57-108/22
84-74-2	Di-n-butyl phthalate	ND		2310	1490	65	1990	87	29*	63-108/19
117-84-0	Di-n-octyl phthalate	ND		2310	1560	68	2160	94	32*	64-119/21
84-66-2	Diethyl phthalate	ND		2310	1530	66	2030	88	28*	61-109/20
131-11-3	Dimethyl phthalate	ND		2310	1440	62	1930	84	29*	59-108/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		2310	1680	73	2200	96	27*	64-115/23
206-44-0	Fluoranthene	ND		2310	1520	66	2020	88	28*	60-108/25
86-73-7	Fluorene	ND		3230	2050	64	2700	84	27*	58-109/21
118-74-1	Hexachlorobenzene	ND		2310	1510	66	2020	88	29*	59-111/21
87-68-3	Hexachlorobutadiene	ND		2310	1440	62	1790	78	22	41-108/27
77-47-4	Hexachlorocyclopentadiene	ND		2310	147	6*	246	11*	50*	49-110/31
67-72-1	Hexachloroethane	ND		2310	1080	47	1470	64	31	40-105/32
193-39-5	Indeno(1,2,3-cd)pyrene	28.0	J	3230	2250	69	3160	97	34*	66-116/22
78-59-1	Isophorone	ND		2310	1180	51	1490	65	23*	42-89/22
90-12-0	1-Methylnaphthalene	ND		2310	1530	66	1870	81	20	49-106/26
91-57-6	2-Methylnaphthalene	ND		2310	1520	66	1890	82	22	47-106/27
91-20-3	Naphthalene	ND		2310	1410	61	1740	76	21	44-104/27
98-95-3	Nitrobenzene	ND		2310	1420	62	1860	81	27*	43-108/25
621-64-7	N-Nitroso-di-n-propylamine	ND		2310	1270	55	1750	76	32*	48-108/27
86-30-6	N-Nitrosodiphenylamine	ND		2310	1600	69	2090	91	27*	62-110/21
85-01-8	Phenanthrene	ND		3230	2120	66	2840	88	29*	63-111/22
129-00-0	Pyrene	ND		3230	2040	63*	2790	87	31*	65-115/25
120-82-1	1,2,4-Trichlorobenzene	ND		2310	1400	61	1750	76	22	45-100/26

CAS No.	Surrogate Recoveries	MS	MSD	FA3839-7	Limits
367-12-4	2-Fluorophenol	54%	76%	61%	40-102%
4165-62-2	Phenol-d5	57%	78%	68%	41-100%
118-79-6	2,4,6-Tribromophenol	64%	89%	89%	42-108%
4165-60-0	Nitrobenzene-d5	60%	79%	71%	40-105%
321-60-8	2-Fluorobiphenyl	61%	79%	128%* [a]	43-107%
1718-51-0	Terphenyl-d14	65%	90%	91%	45-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46544-MS	X028034.D	1	04/23/13	FS	04/22/13	OP46544	SX1346
OP46544-MSD	X028035.D	1	04/23/13	FS	04/22/13	OP46544	SX1346
FA3839-7	X028033.D	1	04/23/13	FS	04/22/13	OP46544	SX1346

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA3839-4, FA3839-5, FA3839-6, FA3839-7

(a) Outside control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46546-MS	L062795.D	1	04/23/13	NAF	04/23/13	OP46546	SL3187
OP46546-MSD	L062841.D	1	04/24/13	NAF	04/23/13	OP46546	SL3188
FA3839-8	L062794.D	1	04/23/13	NAF	04/23/13	OP46546	SL3187

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA3839-8

CAS No.	Compound	FA3839-8 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		4330	3270	75	3400	80	4	36-118/41
95-57-8	2-Chlorophenol	ND		2170	1580	73	1600	75	1	48-104/26
59-50-7	4-Chloro-3-methyl phenol	ND		2170	1620	75	1710	80	5	52-108/21
120-83-2	2,4-Dichlorophenol	ND		2170	1590	73	1660	78	4	51-105/27
105-67-9	2,4-Dimethylphenol	ND		2170	1590	73	1650	77	4	43-96/23
51-28-5	2,4-Dinitrophenol	ND		4330	3500	81	3440	80	2	40-119/32
534-52-1	4,6-Dinitro-o-cresol	ND		4330	4130	95	4490	105	8	64-121/29
95-48-7	2-Methylphenol	ND		2170	1570	72	1650	77	5	46-107/24
	3&4-Methylphenol	ND		4330	3200	74	3290	77	3	44-111/24
88-75-5	2-Nitrophenol	ND		2170	1520	70	1590	74	5	49-104/27
100-02-7	4-Nitrophenol	ND		4330	3480	80	3630	85	4	56-116/23
87-86-5	Pentachlorophenol	ND		4330	3600	83	3890	91	8	61-114/23
108-95-2	Phenol	ND		2170	1660	77	1690	79	2	45-110/24
88-06-2	2,4,6-Trichlorophenol	ND		2170	1640	76	1780	83	8	56-109/25
83-32-9	Acenaphthene	ND		3030	2130	70	2270	76	6	56-109/23
208-96-8	Acenaphthylene	ND		2170	1670	77	1800	84	7	56-106/23
120-12-7	Anthracene	ND		3030	2100	69	2230	75	6	61-110/21
56-55-3	Benzo(a)anthracene	22.3	J	3030	2280	74	2380	79	4	66-111/23
50-32-8	Benzo(a)pyrene	ND		3030	2110	70	2160	72	2	59-104/23
205-99-2	Benzo(b)fluoranthene	ND		3030	2170	72	2150	72	1	67-113/24
191-24-2	Benzo(g,h,i)perylene	ND		3030	2670	88	3080	103	14	67-113/21
207-08-9	Benzo(k)fluoranthene	ND		3030	1940	64*	1970	66*	2	67-114/22
101-55-3	4-Bromophenyl phenyl ether	ND		2170	1680	78	1870	87	11	62-110/21
85-68-7	Butyl benzyl phthalate	ND		2170	1750	81	1820	85	4	65-113/20
100-51-6	Benzyl Alcohol	ND		2170	1640	76	1650	77	1	53-108/24
91-58-7	2-Chloronaphthalene	ND		2170	1570	72	1690	79	7	53-106/23
106-47-8	4-Chloroaniline	ND		2170	1340	62	1360	64	1	30-115/30
218-01-9	Chrysene	ND		3030	2190	72	2320	78	6	65-112/25
111-91-1	bis(2-Chloroethoxy)methane	ND		2170	1590	73	1610	75	1	48-105/24
111-44-4	bis(2-Chloroethyl)ether	ND		2170	1450	67	1560	73	7	46-103/27
108-60-1	bis(2-Chloroisopropyl)ether	ND		2170	1490	69	1560	73	5	40-110/25
7005-72-3	4-Chlorophenyl phenyl ether	ND		2170	1590	73	1690	79	6	58-106/21
95-50-1	1,2-Dichlorobenzene	ND		2170	1530	71	1510	71	1	44-102/28
122-66-7	1,2-Diphenylhydrazine	ND		2170	1660	77	1900	89	13	58-112/22
541-73-1	1,3-Dichlorobenzene	ND		2170	1490	69	1490	70	0	42-100/30
106-46-7	1,4-Dichlorobenzene	ND		2170	1520	70	1510	71	1	40-106/29

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46546-MS	L062795.D	1	04/23/13	NAF	04/23/13	OP46546	SL3187
OP46546-MSD	L062841.D	1	04/24/13	NAF	04/23/13	OP46546	SL3188
FA3839-8	L062794.D	1	04/23/13	NAF	04/23/13	OP46546	SL3187

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA3839-8

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CAS No.	Compound	FA3839-8 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
91-94-1	3,3'-Dichlorobenzidine	ND		2170	1430	66	1620	76	12	36-114/28
53-70-3	Dibenzo(a,h)anthracene	ND		3030	2800	92	3090	103	10	68-115/23
132-64-9	Dibenzofuran	ND		2170	1650	76	1750	82	6	57-108/22
84-74-2	Di-n-butyl phthalate	ND		2170	1620	75	1630	76	1	63-108/19
117-84-0	Di-n-octyl phthalate	ND		2170	1480	68	1370	64	8	64-119/21
84-66-2	Diethyl phthalate	ND		2170	1610	74	1760	82	9	61-109/20
131-11-3	Dimethyl phthalate	ND		2170	1630	75	1740	81	7	59-108/20
117-81-7	bis(2-Ethylhexyl)phthalate	149	J	2170	1880	80	1840	79	2	64-115/23
206-44-0	Fluoranthene	ND		2170	1670	77	1530	72	9	60-108/25
86-73-7	Fluorene	ND		3030	2300	76	2420	81	5	58-109/21
118-74-1	Hexachlorobenzene	ND		2170	1660	77	1780	83	7	59-111/21
87-68-3	Hexachlorobutadiene	ND		2170	1500	69	1550	73	3	41-108/27
77-47-4	Hexachlorocyclopentadiene	ND		2170	1530	71	1480	69	3	49-110/31
67-72-1	Hexachloroethane	ND		2170	1520	70	1520	71	0	40-105/32
193-39-5	Indeno(1,2,3-cd)pyrene	ND		3030	2730	90	3000	100	9	66-116/22
78-59-1	Isophorone	ND		2170	1340	62	1370	64	2	42-89/22
90-12-0	1-Methylnaphthalene	98.1	J	2170	1700	74	1770	78	4	49-106/26
91-57-6	2-Methylnaphthalene	ND		2170	1540	71	1600	75	4	47-106/27
91-20-3	Naphthalene	30.5	J	2170	1630	74	1700	78	4	44-104/27
98-95-3	Nitrobenzene	ND		2170	1510	70	1510	71	0	43-108/25
621-64-7	N-Nitroso-di-n-propylamine	ND		2170	1640	76	1680	79	2	48-108/27
86-30-6	N-Nitrosodiphenylamine	ND		2170	1740	80	1970	92	12	62-110/21
85-01-8	Phenanthrene	ND		3030	2280	75	2500	84	9	63-111/22
129-00-0	Pyrene	47.3	J	3030	2630	85	3170	104	19	65-115/25
120-82-1	1,2,4-Trichlorobenzene	ND		2170	1510	70	1560	73	3	45-100/26

CAS No.	Surrogate Recoveries	MS	MSD	FA3839-8	Limits
367-12-4	2-Fluorophenol	67%	69%	56%	40-102%
4165-62-2	Phenol-d5	74%	74%	63%	41-100%
118-79-6	2,4,6-Tribromophenol	81%	90%	73%	42-108%
4165-60-0	Nitrobenzene-d5	67%	67%	55%	40-105%
321-60-8	2-Fluorobiphenyl	70%	75%	62%	43-107%
1718-51-0	Terphenyl-d14	91%	104%	80%	45-119%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUU141-MB	UU002645.D	1	04/22/13	AH	n/a	n/a	GUU141

The QC reported here applies to the following samples: **Method:** MADEP VPH REV 1.1

FA3839-4, FA3839-6, FA3839-7

7.1.1

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CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	51	51	ug/kg	
100-41-4	Ethylbenzene	ND	100	51	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	100	51	ug/kg	
91-20-3	Naphthalene	ND	260	150	ug/kg	
108-88-3	Toluene	ND	100	51	ug/kg	
	m,p-Xylene	ND	200	100	ug/kg	
95-47-6	o-Xylene	ND	100	51	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	5100	1800	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	5100	1800	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	5100	1800	ug/kg	
	C5- C8 Aliphatics	ND	5100	1800	ug/kg	
	C9- C12 Aliphatics	ND	5100	1800	ug/kg	
	C9- C10 Aromatics	ND	5100	1800	ug/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	BFB	98%	70-130%
460-00-4	BFB	100%	70-130%

Method Blank Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUU146-MB	UU002733.D	1	04/25/13	MM	n/a	n/a	GUU146

The QC reported here applies to the following samples: **Method:** MADEP VPH REV 1.1

FA3839-5, FA3839-8

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	51	51	ug/kg	
100-41-4	Ethylbenzene	ND	100	51	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	100	51	ug/kg	
91-20-3	Naphthalene	200	260	150	ug/kg	J
108-88-3	Toluene	ND	100	51	ug/kg	
	m,p-Xylene	ND	200	100	ug/kg	
95-47-6	o-Xylene	ND	100	51	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	5100	1800	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	5100	1800	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	5100	1800	ug/kg	
	C5- C8 Aliphatics	ND	5100	1800	ug/kg	
	C9- C12 Aliphatics	ND	5100	1800	ug/kg	
	C9- C10 Aromatics	ND	5100	1800	ug/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	BFB	81%	70-130%
460-00-4	BFB	80%	70-130%

Method Blank Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR3263-MB	QR076086.D	1	04/22/13	MM	n/a	n/a	GQR3263

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA3839-1, FA3839-2

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	105%	56-149%
98-08-8	aaa-Trifluorotoluene	102%	66-132%

Method Blank Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR3264-MB	QR076121.D	1	04/23/13	MM	n/a	n/a	GQR3264

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA3839-3, FA3839-9

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	97%	56-149%
98-08-8	aaa-Trifluorotoluene	98%	66-132%

Blank Spike Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR3263-BS	QR076085.D	1	04/22/13	MM	n/a	n/a	GQR3263

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA3839-1, FA3839-2

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	20	19.6	98	74-128

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	110%	56-149%
98-08-8	aaa-Trifluorotoluene	102%	66-132%

7.2.1

7

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR3264-BS	QR076120.D	1	04/23/13	MM	n/a	n/a	GQR3264

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA3839-3, FA3839-9

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	20	18.7	94	74-128

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	112%	56-149%
98-08-8	aaa-Trifluorotoluene	100%	66-132%

7.2.2

7

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUU141-BS	UU002646.D	1	04/22/13	AH	n/a	n/a	GUU141
GUU141-BSD	UU002644.D	1	04/22/13	AH	n/a	n/a	GUU141

The QC reported here applies to the following samples: **Method:** MADEP VPH REV 1.1

FA3839-4, FA3839-6, FA3839-7

7.3.1

7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	4160	4360	105	4650	112	6	70-130/25
100-41-4	Ethylbenzene	4160	4470	107	4760	114	6	70-130/25
1634-04-4	Methyl Tert Butyl Ether	4160	3970	95	4200	101	6	70-130/25
91-20-3	Naphthalene	4160	3530	85	4040	97	13	70-130/25
108-88-3	Toluene	4160	4220	101	4520	109	7	70-130/25
	m,p-Xylene	8320	8690	104	9260	111	6	70-130/25
95-47-6	o-Xylene	4160	4220	101	4510	108	7	70-130/25
	C5- C8 Aliphatics (Unadj.)	12500	16000	128	16100	129	1	70-130/25
	C9- C12 Aliphatics (Unadj.)	8320	8580	103	10700	129	22	70-130/25
	C9- C10 Aromatics (Unadj.)	4160	4830	116	4790	115	1	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	BFB	110%	109%	70-130%
460-00-4	BFB	112%	110%	70-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUU146-BS	UU002759.D	1	04/26/13	MM	n/a	n/a	GUU146
GUU146-BSD	UU002732.D	1	04/25/13	MM	n/a	n/a	GUU146

The QC reported here applies to the following samples: **Method:** MADEP VPH REV 1.1

FA3839-5, FA3839-8

7.3.2

7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	4160	4040	97	4250	102	5	70-130/25
100-41-4	Ethylbenzene	4160	3950	95	4240	102	7	70-130/25
1634-04-4	Methyl Tert Butyl Ether	4160	4380	105	4060	98	8	70-130/25
91-20-3	Naphthalene	4160	4190	101	3850	93	8	70-130/25
108-88-3	Toluene	4160	3930	94	4180	100	6	70-130/25
	m,p-Xylene	8320	8100	97	8700	105	7	70-130/25
95-47-6	o-Xylene	4160	4040	97	4220	101	4	70-130/25
	C5- C8 Aliphatics (Unadj.)	12500	13600	109	14500	116	6	70-130/25
	C9- C12 Aliphatics (Unadj.)	8320	7630	92	8920	107	16	70-130/25
	C9- C10 Aromatics (Unadj.)	4160	4170	100	4300	103	3	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	BFB	93%	96%	70-130%
460-00-4	BFB	94%	97%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA3826-1MS	QR076088.D	1	04/22/13	MM	n/a	n/a	GQR3263
FA3826-1MSD	QR076089.D	1	04/22/13	MM	n/a	n/a	GQR3263
FA3826-1	QR076087.D	1	04/22/13	MM	n/a	n/a	GQR3263

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA3839-1, FA3839-2

7.4.1

7

CAS No.	Compound	FA3826-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		21	21.6	103	21.7	103	0	74-128/17

CAS No.	Surrogate Recoveries	MS	MSD	FA3826-1	Limits
460-00-4	4-Bromofluorobenzene	107%	106%	101%	56-149%
98-08-8	aaa-Trifluorotoluene	87%	85%	86%	66-132%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA3839-3MS	QR076123.D	1	04/23/13	MM	n/a	n/a	GQR3264
FA3839-3MSD	QR076124.D	1	04/23/13	MM	n/a	n/a	GQR3264
FA3839-3	QR076122.D	1	04/23/13	MM	n/a	n/a	GQR3264

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA3839-3, FA3839-9

7.4.2

7

CAS No.	Compound	FA3839-3 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	12.3		25.9	34.2	85	34.4	85	1	74-128/17

CAS No.	Surrogate Recoveries	MS	MSD	FA3839-3	Limits
460-00-4	4-Bromofluorobenzene	119%	121%	124%	56-149%
98-08-8	aaa-Trifluorotoluene	97%	99%	104%	66-132%

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA3733-2DUP	UU002671.D	1	04/23/13	AH	n/a	n/a	GUU141
FA3733-2	UU002647.D	1	04/22/13	AH	n/a	n/a	GUU141

The QC reported here applies to the following samples: **Method:** MADEP VPH REV 1.1

FA3839-4, FA3839-6, FA3839-7

7.5.1

7

CAS No.	Compound	FA3733-2 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
71-43-2	Benzene	ND		ND		nc	50
100-41-4	Ethylbenzene	ND		ND		nc	50
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	50
91-20-3	Naphthalene	ND		ND		nc	50
108-88-3	Toluene	ND		ND		nc	50
	m,p-Xylene	ND		ND		nc	50
95-47-6	o-Xylene	ND		ND		nc	50
	C5- C8 Aliphatics (Unadj.)	ND		ND		nc	50
	C9- C12 Aliphatics (Unadj.)	ND		ND		nc	50
	C9- C10 Aromatics (Unadj.)	ND		ND		nc	50
	C5- C8 Aliphatics	ND		ND		nc	50
	C9- C12 Aliphatics	ND		ND		nc	50
	C9- C10 Aromatics	ND		ND		nc	50

CAS No.	Surrogate Recoveries	DUP	FA3733-2	Limits
460-00-4	BFB	153%* b	189%* a	70-130%
460-00-4	BFB	158%* b	193%* a	70-130%

(a) Outside control limits; however, sample is ND.
(b) Outside control limits; however, sample was ND.

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA3840-1DUP	UU002755.D	1	04/26/13	MM	n/a	n/a	GUU146
FA3840-1	UU002736.D	1	04/25/13	MM	n/a	n/a	GUU146

The QC reported here applies to the following samples: **Method:** MADEP VPH REV 1.1

FA3839-5, FA3839-8

CAS No.	Compound	FA3840-1 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
71-43-2	Benzene	ND		ND		nc	50
100-41-4	Ethylbenzene	ND		ND		nc	50
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	50
91-20-3	Naphthalene	ND		ND		nc	50
108-88-3	Toluene	ND		ND		nc	50
	m,p-Xylene	ND		ND		nc	50
95-47-6	o-Xylene	ND		ND		nc	50
	C5- C8 Aliphatics (Unadj.)	ND		ND		nc	50
	C9- C12 Aliphatics (Unadj.)	ND		ND		nc	50
	C9- C10 Aromatics (Unadj.)	ND		ND		nc	50
	C5- C8 Aliphatics	ND		ND		nc	50
	C9- C12 Aliphatics	ND		ND		nc	50
	C9- C10 Aromatics	ND		ND		nc	50

CAS No.	Surrogate Recoveries	DUP	FA3840-1	Limits
460-00-4	BFB	93%	94%	70-130%
460-00-4	BFB	93%	93%	70-130%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46542-MB	NN004397.D	1	04/24/13	NMC	04/22/13	OP46542	GNN189

The QC reported here applies to the following samples: **Method:** MADEP EPH REV 1.1

FA3839-4, FA3839-5, FA3839-6, FA3839-7, FA3839-8

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	200	100	ug/kg	
208-96-8	Acenaphthylene	ND	200	100	ug/kg	
120-12-7	Anthracene	ND	200	100	ug/kg	
56-55-3	Benzo(a)anthracene	ND	200	100	ug/kg	
50-32-8	Benzo(a)pyrene	ND	200	100	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	200	100	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	200	100	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	200	100	ug/kg	
218-01-9	Chrysene	ND	200	100	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	200	100	ug/kg	
206-44-0	Fluoranthene	ND	200	100	ug/kg	
86-73-7	Fluorene	ND	200	100	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	200	100	ug/kg	
91-57-6	2-Methylnaphthalene	ND	200	100	ug/kg	
91-20-3	Naphthalene	ND	200	100	ug/kg	
85-01-8	Phenanthrene	ND	200	100	ug/kg	
129-00-0	Pyrene	ND	200	100	ug/kg	
	C11-C22 Aromatics (Unadj.)	ND	10000	7500	ug/kg	
	C11-C22 Aromatics	ND	10000	7500	ug/kg	
	C9-C18 Aliphatics	ND	10000	5000	ug/kg	
	C19-C36 Aliphatics	ND	10000	5000	ug/kg	

CAS No.	Surrogate Recoveries		Limits
3386-33-2	1-Chlorooctadecane	80%	40-140%
580-13-2	2-Bromonaphthalene	77%	40-140%
84-15-1	o-Terphenyl	67%	40-140%
321-60-8	2-Fluorobiphenyl	78%	40-140%

Method Blank Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46537-MB	LL47680.D	1	04/23/13	SJL	04/22/13	OP46537	GLL1801

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA3839-1, FA3839-2, FA3839-3, FA3839-9

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	8.3	3.3	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	82%	56-122%

Blank Spike Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46537-BS	LL47679.D	1	04/23/13	SJL	04/22/13	OP46537	GLL1801

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA3839-1, FA3839-2, FA3839-3, FA3839-9

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C28)	33.3	26.2	79	62-116

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	79%	56-122%

8.2.1

8

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46542-BS	NN004395.D	1	04/24/13	NMC	04/22/13	OP46542	GNN189
OP46542-BSD	NN004396.D	1	04/24/13	NMC	04/22/13	OP46542	GNN189

The QC reported here applies to the following samples: **Method:** MADEP EPH REV 1.1

FA3839-4, FA3839-5, FA3839-6, FA3839-7, FA3839-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	5000	2860	57	2990	60	4	40-140/30
208-96-8	Acenaphthylene	5000	2720	54	2880	58	6	40-140/30
120-12-7	Anthracene	5000	3060	61	3330	67	8	40-140/30
56-55-3	Benzo(a)anthracene	5000	3150	63	3490	70	10	40-140/30
50-32-8	Benzo(a)pyrene	5000	3190	64	3500	70	9	40-140/30
205-99-2	Benzo(b)fluoranthene	5000	3150	63	3480	70	10	40-140/30
191-24-2	Benzo(g,h,i)perylene	5000	3250	65	3490	70	7	40-140/30
207-08-9	Benzo(k)fluoranthene	5000	3110	62	3440	69	10	40-140/30
218-01-9	Chrysene	5000	3040	61	3370	67	10	40-140/30
53-70-3	Dibenzo(a,h)anthracene	5000	3220	64	3500	70	8	40-140/30
206-44-0	Fluoranthene	5000	3100	62	3440	69	10	40-140/30
86-73-7	Fluorene	5000	2920	58	3110	62	6	40-140/30
193-39-5	Indeno(1,2,3-cd)pyrene	5000	3270	65	3550	71	8	40-140/30
91-57-6	2-Methylnaphthalene	5000	2600	52	2700	54	4	40-140/30
91-20-3	Naphthalene	5000	2430	49	2470	49	2	40-140/30
85-01-8	Phenanthrene	5000	3070	61	3330	67	8	40-140/30
129-00-0	Pyrene	5000	3140	63	3490	70	11	40-140/30
	C11-C22 Aromatics (Unadj.)	85000	46500	55	50100	59	7	40-140/30
	C9-C18 Aliphatics	30000	18900	63	18600	62	2	40-140/30
	C19-C36 Aliphatics	40000	30900	77	30600	77	1	40-140/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
3386-33-2	1-Chlorooctadecane	78%	76%	40-140%
580-13-2	2-Bromonaphthalene	78%	88%	40-140%
84-15-1	o-Terphenyl	62%	67%	40-140%
321-60-8	2-Fluorobiphenyl	79%	86%	40-140%

Sample	Compound	Col #1	Col #2	Breakthrough	Limit
OP46542-BS	2-Methylnaphthalene	2600	ND	0.0%	5.0
OP46542-BS	Naphthalene	2430	ND	0.0%	5.0
OP46542-BSD	2-Methylnaphthalene	2700	ND	0.0%	5.0
OP46542-BSD	Naphthalene	2470	ND	0.0%	5.0

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46537-MS	LL47685.D	1	04/23/13	SJL	04/22/13	OP46537	GLL1801
OP46537-MSD	LL47686.D	1	04/23/13	SJL	04/22/13	OP46537	GLL1801
FA3826-5	LL47684.D	1	04/23/13	SJL	04/22/13	OP46537	GLL1801

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA3839-1, FA3839-2, FA3839-3, FA3839-9

CAS No.	Compound	FA3826-5 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	ND		40.6	29.0	71	35.4	88	20	62-116/35

CAS No.	Surrogate Recoveries	MS	MSD	FA3826-5	Limits
84-15-1	o-Terphenyl	67%	78%	80%	56-122%

8.4.1

8

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA3839
Account: EPSVNCR EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46542-DUP	NN004420.D	1	04/24/13	NMC	04/22/13	OP46542	GNN189
FA3882-6	NN004419.D	1	04/24/13	NMC	04/22/13	OP46542	GNN189

The QC reported here applies to the following samples: **Method:** MADEP EPH REV 1.1

FA3839-4, FA3839-5, FA3839-6, FA3839-7, FA3839-8

CAS No.	Compound	FA3882-6 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
83-32-9	Acenaphthene	ND		ND		nc	30 [a]
208-96-8	Acenaphthylene	ND		ND		nc	30 [a]
120-12-7	Anthracene	ND		ND		nc	30 [a]
56-55-3	Benzo(a)anthracene	ND		ND		nc	30 [a]
50-32-8	Benzo(a)pyrene	ND		ND		nc	30 [a]
205-99-2	Benzo(b)fluoranthene	ND		ND		nc	30 [a]
191-24-2	Benzo(g,h,i)perylene	ND		ND		nc	30 [a]
207-08-9	Benzo(k)fluoranthene	ND		ND		nc	30 [a]
218-01-9	Chrysene	ND		ND		nc	30 [a]
53-70-3	Dibenzo(a,h)anthracene	ND		ND		nc	30 [a]
206-44-0	Fluoranthene	ND		ND		nc	30 [a]
86-73-7	Fluorene	ND		ND		nc	30 [a]
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ND		nc	30 [a]
91-57-6	2-Methylnaphthalene	ND		ND		nc	30 [a]
91-20-3	Naphthalene	ND		ND		nc	30 [a]
85-01-8	Phenanthrene	ND		ND		nc	30 [a]
129-00-0	Pyrene	ND		ND		nc	30 [a]
	C11-C22 Aromatics (Unadj.)	ND		ND		nc	30 [a]
	C11-C22 Aromatics	ND		ND		nc	30 [a]
	C9-C18 Aliphatics	ND		ND		nc	30 [a]
	C19-C36 Aliphatics	ND		ND		nc	30 [a]

CAS No.	Surrogate Recoveries	DUP	FA3882-6	Limits
3386-33-2	1-Chlorooctadecane	78%	81%	40-140%
580-13-2	2-Bromonaphthalene	97%	91%	40-140%
84-15-1	o-Terphenyl	67%	59%	40-140%
321-60-8	2-Fluorobiphenyl	95%	90%	40-140%

(a) Advisory control limits.

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA3839
Account: EPSVNCR - EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

QC Batch ID: MP24998 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 04/22/13

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.042	.0025	.0042	-0.0054	<0.042

Associated samples MP24998: FA3839-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.1.1

9

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA3839
Account: EPSVNCR - EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

QC Batch ID: MP24998
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 04/22/13

Metal	FA3826-1 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.011	0.33	0.273	116.9	80-120

Associated samples MP24998: FA3839-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

9.1.2

9

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA3839
Account: EPSVNCR - EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

QC Batch ID: MP24998
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date:					04/22/13				04/22/13	
Metal	FA3826-1 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit	FA3826-1 Original	DUP	RPD	QC Limits
Mercury	0.011	0.33	0.273	116.9	0.0	20	0.011	0.011	0.0	0-20

Associated samples MP24998: FA3839-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

9.1.2

9

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA3839
Account: EPSVNCR - EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

QC Batch ID: MP24998
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 04/22/13

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.25	0.25	100.0	80-120

Associated samples MP24998: FA3839-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.1.3

9

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA3839
Account: EPSVNCR - EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

QC Batch ID: MP24998
Matrix Type: SOLID

Methods: SW846 7471B
Units: ug/l

Prep Date: 04/22/13

Metal	FA3826-1 Original	SDL 1:5	%DIF	QC Limits
Mercury	0.117	0.00	100.0(a)	0-10

Associated samples MP24998: FA3839-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

9.1.4

9

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA3839
Account: EPSVNCR - EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

QC Batch ID: MP25002
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 04/22/13

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.75	1		
Antimony	1.0	.065	.095		
Arsenic	0.50	.08	.08		
Barium	10	.05	.25		
Beryllium	0.25	.025	.025		
Cadmium	0.20	.025	.025		
Calcium	250	2.5	2.5		
Chromium	0.50	.09	.09	0.0050	<0.50
Cobalt	2.5	.025	.025		
Copper	1.3	.05	.09		
Iron	15	1.5	3.5		
Lead	1.0	.055	.055	-0.055	<1.0
Magnesium	250	3.7	3.8		
Manganese	0.75	.035	.045		
Molybdenum	2.5	.03	.03		
Nickel	2.0	.025	.025		
Potassium	500	10	10		
Selenium	1.0	.1	.15		
Silver	0.50	.025	.025		
Sodium	500	25	25		
Strontium	0.50	.025	.025		
Thallium	0.50	.065	.09		
Tin	2.5	.035	.035		
Titanium	0.50	.045	.045		
Vanadium	2.5	.025	.025		
Zinc	1.0	.15	.15		

Associated samples MP25002: FA3839-3, FA3839-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA3839
Account: EPSVNCR - EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

QC Batch ID: MP25002
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date:			04/22/13					04/22/13	
Metal	FA3598-6 Original	DUP	RPD	QC Limits	FA3598-6 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium									
Beryllium									
Cadmium	anr								
Calcium	anr								
Chromium	36.1	17.7 (a)	68.4*(b)	0-20	36.1	33.2 (a)	11.7	-24.8N(c	80-120
Cobalt									
Copper	anr								
Iron	anr								
Lead	16.8	10.1 (a)	49.8*(b)	0-20	16.8	44.2 (a)	29.3	93.6	80-120
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

Associated samples MP25002: FA3839-3, FA3839-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Elevated reporting limit(s) due to matrix interference.
(b) High RPD due to possible sample non-homogeneity.
(c) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA3839
Account: EPSVNCR - EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

QC Batch ID: MP25002
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 04/22/13

Metal	FA3598-6 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	anr					
Barium						
Beryllium						
Cadmium	anr					
Calcium	anr					
Chromium	36.1	26.0 (a)	8.62	-117.2(b	24.3 (c)	20
Cobalt						
Copper	anr					
Iron	anr					
Lead	16.8	34.5 (a)	21.5	82.2	24.7 (c)	20
Magnesium	anr					
Manganese	anr					
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	anr					

Associated samples MP25002: FA3839-3, FA3839-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Elevated reporting limit(s) due to matrix interference.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(c) High RPD due to possible sample non-homogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA3839
Account: EPSVNCR - EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

QC Batch ID: MP25002
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 04/22/13

Metal	BSP Result	Spikelot MPELICP1	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium				
Beryllium				
Cadmium	anr			
Calcium	anr			
Chromium	10.4	10	104.0	80-120
Cobalt				
Copper	anr			
Iron	anr			
Lead	23.6	25	94.4	80-120
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP25002: FA3839-3, FA3839-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.2.3

9

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA3839
Account: EPSVNCR - EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

QC Batch ID: MP25002
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/22/13

Metal	FA3598-6 Original	SDL 5:25	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium				
Beryllium				
Cadmium	anr			
Calcium	anr			
Chromium	752	894	19.0*(a)	0-10
Cobalt				
Copper	anr			
Iron	anr			
Lead	350	241	31.2*(a)	0-10
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP25002: FA3839-3, FA3839-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Serial dilution indicates possible matrix interference.

9.2.4

9

POST DIGESTATE SPIKE SUMMARY

Login Number: FA3839
Account: EPSVNCR - EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

QC Batch ID: MP25002
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/22/13

Metal	Sample ml	Final ml	FA3598-6 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium	9.8	10	751.5	736.47	816.4	0.2	2.5	50	159.9*(a	80-120
Cobalt										
Copper										
Iron										
Lead	9.8	10	350.2	343.196	417.7	0.2	2.5	50	149.0*(a	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP25002: FA3839-3, FA3839-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested
(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA3839
Account: EPSVNCR - EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

QC Batch ID: MP25004
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 04/22/13

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.75	1		
Antimony	1.0	.065	.095		
Arsenic	0.50	.08	.08		
Barium	10	.05	.25		
Beryllium	0.25	.025	.025		
Cadmium	0.20	.025	.025		
Calcium	250	2.5	2.5		
Chromium	0.50	.09	.09	0.010	<0.50
Cobalt	2.5	.025	.025		
Copper	1.3	.05	.09		
Iron	15	1.5	3.5		
Lead	1.0	.055	.055	-0.025	<1.0
Magnesium	250	3.7	3.8		
Manganese	0.75	.035	.045		
Molybdenum	2.5	.03	.03		
Nickel	2.0	.025	.025		
Potassium	500	10	10		
Selenium	1.0	.1	.15		
Silver	0.50	.025	.025		
Sodium	500	25	25		
Strontium	0.50	.025	.025		
Thallium	0.50	.065	.09		
Tin	2.5	.035	.035		
Titanium	0.50	.045	.045		
Vanadium	2.5	.025	.025		
Zinc	1.0	.15	.15		

Associated samples MP25004: FA3839-5, FA3839-6, FA3839-7, FA3839-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA3839
Account: EPSVNCR - EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

QC Batch ID: MP25004
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date:			04/22/13					04/22/13	
Metal	FA3839-5 Original	DUP	RPD	QC Limits	FA3839-5 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium	5.5	6.6	18.2	0-20	5.5	24.2	12.8	146.3N(a	80-120
Cobalt									
Copper									
Iron									
Lead	5.3	4.9	7.8	0-20	5.3	33.9	32	89.5	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP25004: FA3839-5, FA3839-6, FA3839-7, FA3839-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA3839
Account: EPSVNCR - EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

QC Batch ID: MP25004
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 04/22/13

Metal	FA3839-5 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium	5.5	19.0	11.5	117.0	24.1 (a)	20
Cobalt						
Copper						
Iron						
Lead	5.3	30.8	28.8	88.4	9.6	20
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP25004: FA3839-5, FA3839-6, FA3839-7, FA3839-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) High RPD due to possible sample non-homogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA3839
Account: EPSVNCR - EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

QC Batch ID: MP25004
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 04/22/13

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium	10.8	10	108.0	80-120
Cobalt				
Copper				
Iron				
Lead	24.0	25	96.0	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP25004: FA3839-5, FA3839-6, FA3839-7, FA3839-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.3.3

9

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA3839
Account: EPSVNCR - EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

QC Batch ID: MP25004
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/22/13

Metal	FA3839-5 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium	89.9	95.5	6.2	0-10
Cobalt				
Copper				
Iron				
Lead	86.0	93.8	9.1	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP25004: FA3839-5, FA3839-6, FA3839-7, FA3839-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.3.4

9

POST DIGESTATE SPIKE SUMMARY

Login Number: FA3839
Account: EPSVNCR - EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

QC Batch ID: MP25004
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/22/13

Metal	Sample ml	Final ml	FA3839-5 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium	9.8	10	89.9	88.102	136.4	0.2	2.5	50	96.6	80-120
Cobalt										
Copper										
Iron										
Lead	9.8	10	86	84.28	130.7	0.2	2.5	50	92.8	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP25004: FA3839-5, FA3839-6, FA3839-7, FA3839-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA3839
Account: EPSVNCR - EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

QC Batch ID: MP25025 Methods: SW846 7470A
Matrix Type: LEACHATE Units: mg/l

Prep Date:				04/25/13		04/25/13	
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Mercury	0.00050	.00003	.00005	0.0000095	<0.00050	0.0000080	<0.0050

Associated samples MP25025: FA3839-9L

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.4.1

9

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA3839
Account: EPSVNCR - EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

QC Batch ID: MP25025
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 04/25/13 04/25/13

Metal	JB34690-2 Original	DUP	RPD	QC Limits	JB34690-2 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0	0.0	NC	0-20	0.0	0.031	0.030	103.3	80-120

Associated samples MP25025: FA3839-9L

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

9.4.2

9

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA3839
Account: EPSVNCR - EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

QC Batch ID: MP25025
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 04/25/13

Metal	JB34690-2 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	0.031	0.030	103.3	0.0	20

Associated samples MP25025: FA3839-9L

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

9.4.2

9

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA3839
Account: EPSVNCR - EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

QC Batch ID: MP25025
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: ug/l

Prep Date: 04/25/13

Metal	JB34690-2 Original	SDL 1:5	%DIF	QC Limits
Mercury	0.00	0.00	NC	0-10

Associated samples MP25025: FA3839-9L

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.4.4

9

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA3839
Account: EPSVNCR - EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

QC Batch ID: MP25028
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date: 04/26/13 04/26/13

Metal	JB34690-1 Original	DUP	RPD	QC Limits	JB34690-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum									
Antimony	anr								
Arsenic	0.0	0.0	NC	0-20	0.0	21.0	20.0	105.0	80-120
Barium	1.2	1.2	0.0	0-20	1.2	21.8	20.0	103.0	80-120
Beryllium	anr								
Cadmium	0.013	0.012	8.0	0-20	0.013	0.53	0.50	103.4	80-120
Calcium									
Chromium	0.0	0.0	NC	0-20	0.0	2.1	2.0	105.0	80-120
Cobalt									
Copper									
Iron									
Lead	0.14	0.14	0.0	0-20	0.14	5.0	5.0	97.2	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel	anr								
Potassium									
Selenium	0.0	0.0	NC	0-20	0.0	21.2	20.0	106.0	80-120
Silver	0.0	0.0	NC	0-20	0.0	0.50	0.50	100.0	80-120
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP25028: FA3839-9L

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

9.5.2

9

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA3839
Account: EPSVNCR - EPS of Vermont, Inc
Project: Southern Tire Store Apex; 548 E Williams St, NC

QC Batch ID: MP25028
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date:			04/26/13				04/26/13	
Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum								
Antimony	anr							
Arsenic	2.1	2.0	105.0	80-120	21.2	20.0	106.0	80-120
Barium	2.1	2.0	105.0	80-120	21.2	20.0	106.0	80-120
Beryllium	anr							
Cadmium	0.052	0.050	104.0	80-120	0.53	0.50	106.0	80-120
Calcium								
Chromium	0.21	0.20	105.0	80-120	2.2	2.0	110.0	80-120
Cobalt								
Copper								
Iron								
Lead	0.48	0.50	96.0	80-120	5.0	5.0	100.0	80-120
Magnesium								
Manganese								
Molybdenum								
Nickel	anr							
Potassium								
Selenium	2.1	2.0	105.0	80-120	21.5	20.0	107.5	80-120
Silver	0.050	0.050	100.0	80-120	0.51	0.50	102.0	80-120
Sodium								
Strontium								
Thallium	anr							
Tin								
Titanium								
Vanadium								
Zinc								

Associated samples MP25028: FA3839-9L

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT, INC.

24-Hour Emergency Phone Number
1-800-843-8265

Please print or type

BILL OF LADING

CESQG

1. Document No. RAL 4533

2. Page 1 of 1

3. Generator's Name and Mailing Address
SOUTHERN TIRE
584 E. WILLIAMS ST.
APEX NC 27502

4. Generator's Phone (919) 362-8616

Site Address: SAME

5. Transporter 1 Company Name: ENVIRONMENTAL PROD & SVCS OF VT, INC

6. NYR000115733

A. State Transporter's ID: MK-7745 (NC) / BD-4295 (NC)

B. Transporter 1 Phone: 800 843-8265

7. Transporter 2 Company Name

8.

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
RALEIGH METAL RECYCLING
2310 GARNER RD.
RALEIGH NC 27610
HM

10.

E. State Facility's ID

F. Facility's Phone: 919 828-5426

GENERATOR

	11. Shipping Name	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a.	NON-RCRA, NON-DOT SOLIDS, N.O.S. (EMPTY TANK)	2	EA	1,000	P
b.					
c.					
d.					

G. Additional Descriptions for Materials Listed Above

a. APP#: NO APPROVAL # REQUIRED, 1 X 0 GAL. (1 x 250)
CLEANED STEEL TANK

b.

c.

d.

15. Special Handling Instructions and Additional Information
1)JOB#M3118
1-250g UST + 1-2000g UST

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this document are not subject to federal manifest requirements.

Printed/Typed Name: Danny Roberts
Signature: Danny Roberts
Date: Month 04 Day 17 Year 13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: William Hedgs
Signature:
Date: Month 4 Day 17 Year 13

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the materials covered by this bill of lading except as noted in Item 19.
Printed/Typed Name: Terrence Jones
Signature:
Date: Month Day Year

BILL OF LADING

Appendix G

UST-2 Form

APPENDIX I

LIMITED SITE ASSESSMENT REPORT
MILL CREEK ENVIRONMENTAL SERVICES, INC
JULY 2013

July 26, 2013

Mr. Mark Powers
NCDENR – Raleigh Regional Office
3800 Barrett Drive
Raleigh, North Carolina 27609

Subject: **Limited Site Assessment Report**
Southern Tire and Automotive
548 E. Williams Street
Apex, North Carolina 27502

Dear Mr. Fisher,

Mill Creek Environmental Services, Inc. (MCES) has completed a Limited Site Assessment (LSA) for the subject property. The results of the LSA indicated the presence of regulated compounds in soil and groundwater at the former Tank #2 location. The concentrations of regulated compounds detected in soil at the former Tank #2 location did not exceed the NC DENR regulatory limits established for those compounds. The concentrations of regulated compounds detected in groundwater at the former Tank #2 location exceeded the NC DENR regulatory limits established for naphthalene. However, based on the results of the LSA Risk Characterization Questionnaire (included in the LSA Report), this site qualifies for Low Risk status. Based on the Low Risk Status, the groundwater concentration of naphthalene did not exceed its respective gross contaminant level (GCL).

Based on the Low Risk status and the finding that the detected compounds did not exceed the applicable regulatory limits, MCES has requested that NC DENR grant "No Further Action" status for the subject facility.

Please note, MCES has identified tetrachloroethene (PCE) in groundwater at the subject property and has notified NC DENR Inactive Hazardous Site Branch (IHSB) of the PCE concentrations at the site. Personnel at IHSB have informed us that the subject site will be placed on the list of inactive hazardous sites. The issue of PCE in groundwater at the Apex Village Shopping Center will be addressed through applicable NC DENR IHSB regulations.

The LSA Report for the subject property is attached. Please review the report and feel free to call the undersigned if you have questions, comments, or if we can assist in implementing our recommendations.

Sincerely,
MILL CREEK ENVIRONMENTAL SERVICES, INC.

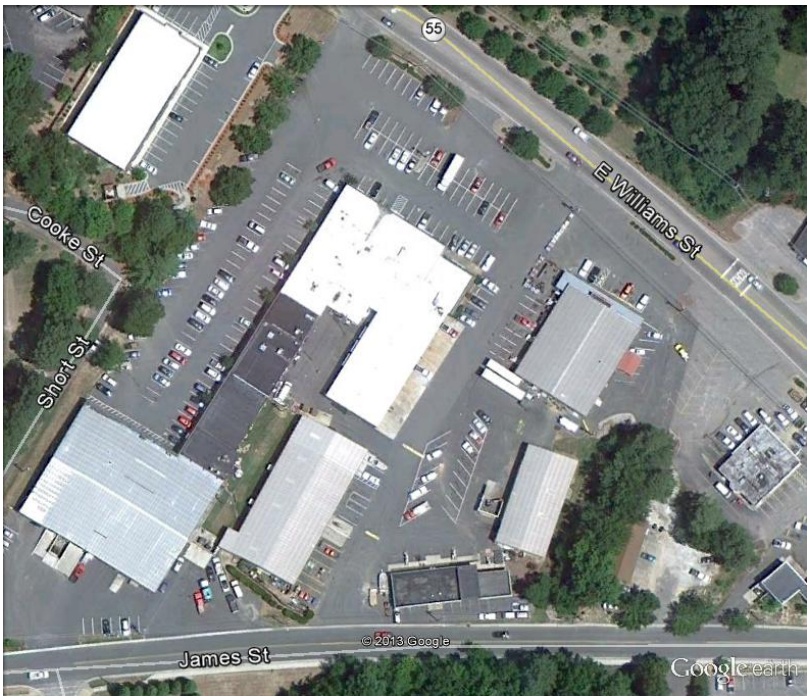
David W. Payne, P.G.
Project Manager

Dan Centofanti, P.G.
Program Manager

1818 Perimeter Road • Dawsonville, GA 30534
706-579-1607 PHONE • 1-706-265-4916 FAX • www.millcreekenvironmental.com

Limited Site Assessment Report

Southern Tire and Automotive
548 E. Williams Street
Apex, North Carolina 27502
Incident No: 39341



Prepared for:

New Falls Property, LLC
PO Box 3807
Cary, North Carolina 27519

Prepared by:

Mill Creek Environmental Services, Inc.
1818 Perimeter Road
Dawsonville, Georgia 30534

Prepared By:

David W. Payne, P.G.
Project Manager

Reviewed By:

Dan Centofanti, P.G.
Program Manager

NORTH CAROLINA LICENSED SEAL 1557 GEOLOGIST DANIEL L. CENTOFANTI

July 2013

1818 Perimeter Road • Dawsonville, GA 30534
706-579-1607 PHONE • 1-706-265-4916 FAX • www.millcreekenvirc

Limited Site Assessment Report

(For petroleum UST releases only)

A. Site Information

1. Site Identification

Date of Report: August 7, 2013

Facility #: Not Assigned Incident Number: 39341 Site Risk: Low

Site Name: Southern Tire and Automotive

Site Street Address: 548 E. Williams Street

City/Town: Apex Zip Code: 27502 County: Wake

Description of Geographical Data Point: Underground Storage Tank

Location Method: Google Earth®

Latitude (decimal degrees): 35.723661 Longitude (decimal degrees): -78.847711

2. Contacts Associated with the Release

UST/AST Owner: New Falls Property, LLC

Address: P.O. Box 3807, Cary, North Carolina 27519 Tel: 919-410-7368

UST/AST Operator: None (UST Closed)

Address: Tel:

Other Person Associated with Release: Mr. Zachary Fisher (New Falls Property, LLC)

Address: P.O. Box 3807, Cary, North Carolina 27519 Tel: 919-410-7368

Property Owner: New Falls Property, LLC

Address: P.O. Box 3807, Cary, North Carolina 27519 Tel: 919-410-7368

Property Occupant: Apex Village Shopping Center

Address: 500-610 E. Williams Street Tel: N/A

Consultant/Contractor: Mill Creek Environmental Services, Inc.

Address: 1818 Perimeter Road, Dawsonville, Georgia 30534 Tel: (706) 579-1607

Analytical Laboratory: Xenco Laboratories, LLC State Certification No.: North Carolina 483

Address: 6017 Financial Drive, Norcross, Georgia 30071 Tel: (770) 449-5477

3. Information about Release

Date Discovered: January 29, 2013 (during site assessment activity)

Estimated Quantity of Release: Unknown

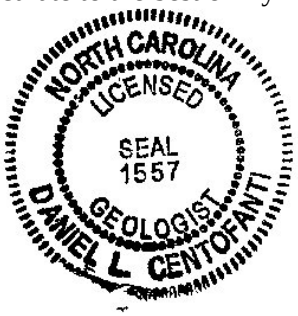
Cause of Release: Failure of UST

Source of Release: UST

Sizes and Contents of Tank or Other Containment from which the Release Occurred: Tank #2, 250-gallon, Used Oil

4. Certification

I, Daniel L. Centofanti, P.G., a Licensed Geologist for Mill Creek Environmental Services, Inc., do certify that the information contained in this report is correct and accurate to the best of my knowledge.



Mill Creek Environmental Services, Inc. is licensed to practice geology in North Carolina. The certification number of the company or corporation is C-505.

B. Executive Summary

This report has been prepared in response to requirements of North Carolina DENR to conduct a Limited Site Assessment (LSA) for Southern Tire and Automotive for DENR UST Section Incident Number: 39341. The subject facility is located at 548 E. Williams Street, Apex, North Carolina. This facility operates within the Apex Village Shopping Center (500-610 E. Williams Street), which was recently purchased by New Falls Property, LLC. This property is reported as 5.74 acres and located approximately 775 feet west of the intersection of NC 55 and James Street, off the south right-of-way of NC 55 in Apex, Wake County, North Carolina.

During Phase I and Phase II Environmental Site Assessment (ESA) activities at the subject site in January and March 2013, Mill Creek Environmental Services, Inc. (MCES) found a 250-gallon used oil UST (previously used to store kerosene) associated with Apex Tire and Automotive. MCES subsequently contracted Environmental Products and Services, Inc. of Vermont (EPS) conduct UST closure by removal services for the two USTs and Highlands Environmental Solutions, Inc. (HES) for environmental oversight, sampling and reporting services.

A UST Closure Report was prepared by HES and dated May 10, 2013 for a 250-gallon used oil UST (identified in the report as Tank #2), was sent to NC DENR for review. The report indicated that TPH-DRO and TPH-DRO were above the State action limit, and total chromium, 1-methylnaphthalene, and C9-C22 aromatics exceeded the DENR Soil to Water MSCCs. DENR assigned Incident Number: 39341 to Tank #2. In a letter dated May 30, 2013, DENR provided "Notice of Regulatory Requirements" for Incident Number: 39346 to follow the requirements of Title 15A NCAC 2L.0405. New Falls Properties subsequently contracted MCES to conduct Limited Site Assessment activities regarding Former Tank #2.

Based on the Risk Characterization section of this report, the subject facility qualifies as Low Risk. Laboratory analytical data indicated detections of eight compounds in the soil samples collected during installation of MW-4 (adjacent to the former location of Tank #2). Of the compounds detected, none exceeded its respective soil remediation goal.

Laboratory analytical data indicated detection of eighteen (18) constituents and/or suites of compounds in groundwater sample MW-4 (adjacent to the former location of Tank #2). Of the compounds detected in groundwater, only two (2) exceeded their respective remediation goals. The following is a summary of the detected compounds that exceeded their respective remediation goals.

Well ID	Compound	Detected Concentration	NC Remediation Goal
MW-4	Naphthalene	**8.05 µg/l**	6.0 µg/l
MW-4	Tetrachloroethene	**0.98 µg/l**	0.7 µg/l

The concentration of naphthalene did not exceed its respective North Carolina gross contaminant level (GCL) of 6,000 µg/l. The concentration of tetrachloroethene also did not exceed its respective North Carolina GCL of 700 µg/l.

Based on the conditions discussed in Section 2.0 of this Report, MCES finds that the subject facility meets North Carolina DENR UST Program criteria for Low Risk status. MCES respectfully requests that North Carolina DENR grant "No Further Action" status for the subject Facility.

Please note, MCES has identified tetrachloroethene (PCE) in groundwater at the subject property and has notified NC DENR Inactive Hazardous Site Branch (IHSB) of the PCE concentrations at the site. Personnel at IHSB have informed us that the subject site will be placed on the list of inactive hazardous sites. The issue of PCE in groundwater at the Apex Village Shopping Center will be addressed through applicable NC DENR IHSB regulations.

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Appendix A	Well Development Log
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D. Site History and Characterization

The Subject facility (Southern Tire and Automotive) is located at 548 E. Williams Street, Apex, North Carolina. This facility operates within the Apex Village Shopping Center (500-610 E. Williams Street), which was recently purchased by New Falls Property, LLC. This property is reported as 5.74 acres and located approximately 775 feet west of the intersection of NC 55 and James Street, off the south right-of-way of NC 55 in Apex, Wake County, North Carolina. **Figure 1** depicts the property location and vicinity on a topographic map. **Figure 2** is a site plan.

Prior to purchasing the property, New Falls Property, LLC contracted Mill Creek Environmental Services, Inc. (MCES) to perform Phase I and Phase II Environmental Site Assessment (ESA) activities at the subject site in January and March 2013. The findings of the Phase I/II ESAs identified two underground storage tanks (USTs) existing on the property; one registered 2,000-gallon diesel UST associated with Martin Cleaners (also within the Apex Village Shopping Center), and one registered 250-gallon used oil UST (previously used to store kerosene) associated with Apex Tire and Automotive. During the January 2013 Phase II ESA activities, MCES found petroleum constituents in soil and groundwater associated with the 250-gallon UST. MCES also conducted an expanded Phase II ESA in March 2013, which included assessment of soil and groundwater at the location of the 2,000-gallon diesel UST. MCES subsequently contracted Environmental Products and Services, Inc. of Vermont (EPS) conduct UST closure by removal services for the two USTs and Highlands Environmental Solutions, Inc. (HES) for environmental oversight, sampling and reporting services.

HES submitted a UST Closure Report dated May 22, 2013 for the 2,000-gallon diesel UST, identified in their report as Tank #1, to North Carolina Department of Environment and Natural Resources (DENR) for review. DENR assigned Incident Number: 39346 to Tank #1. In a letter dated May 30, 2013, DENR provided “Notice of No Further Action” for Incident Number: 39346.

Additionally, HES submitted a UST Closure Report dated May 10, 2013 for the 250-gallon used oil UST, identified in their report as Tank #2, to DENR for review. The report indicated that TPH-DRO and TPH-DRO were above the State action limit, and total chromium, 1-methylnaphthalene, and C9-C22 aromatics exceeded the DENR Soil to Water MSCCs. DENR assigned Incident Number: 39341 to Tank #2. In a letter dated May 30, 2013, DENR provided “Notice of Regulatory Requirements” for Incident Number: 39346 to follow the requirements of Title 15A NCAC 2L.0405. New Falls Properties subsequently contracted MCES to conduct Limited Site Assessment activities regarding Former Tank #2.

The southeast boundary of the property parallels a small south-flowing stream, which is an un-named tributary of Middle Creek. Based on surface topography, groundwater is expected to flow toward the southeast.

E. Risk Characterization

Limited Site Assessment Risk Classification and Land Use Form

Part I – Groundwater/Surface Water/Vapor Impacts

High Risk

1. Has the release contaminated any water supply well including any well used for non-drinking purposes? **NO**
2. Is a water supply well used for drinking water located within 1,000 feet of the source area of the release? **NO**
3. Is a water supply well not used for drinking water (e.g., irrigation, washing cars, industrial cooling water, filling swimming pools) located within 250 feet of the source area of the release? **NO**
4. Does groundwater within 500 feet of the source area of the release have the potential for future use (there is no other source of water supply other than the groundwater)? **NO**
5. Do vapors from the release pose a threat of explosion because of accumulation of the vapors in a confined space or pose any other serious threat to public health, public safety or the environment? **NO**

   If yes, describe.

   _____

   _____

   _____

6. Are there any other factors that would cause the release to pose an imminent danger to public health, public safety, or the environment? **NO**

   If yes, describe.

   _____

   _____

Intermediate Risk

1. Is a surface water body located within 500 feet of the source area of the release? **YES**

   An un-named tributary of Middle Creek parallels the southeast property boundary of Apex Village shopping center. This stream is located approximately 250 feet downgradient of the release area.

   If **YES**, does the maximum groundwater contaminant concentration exceed the surface water quality standards and criteria found in 15A NCAC 2B .0200 by a factor of 10? **NO**

   MCES consulted the 15A NCAC 2B. 0200s Standards Table (May 1, 2007) (from the North Carolina "Redbook" Standards) for surface water quality standard values. Of the compounds detected in the MW-4 groundwater sample, only PCE was listed in the Table. Since PCE "is known to cause cancer in humans", the "water supply" value of 0.7 µg/L was selected as the applicable surface water standard. The detected PCE concentration of 0.98 µg/L in MW-4 does not exceed its North Carolina surface water standard by a factor of 10.

2. Is the source area of the release located within an approved or planned wellhead protection area as defined in 42 USC 300h-7(e)? **NO**

   If yes, describe.

   _____

   _____

3. Is the release located in the Coastal Plain physiographic region as designated on a map entitled "Geology of North Carolina" published by the Department in 1985? **NO**

   If **YES**, is the source area of the release located in an area in which there is recharge to an unconfined or semi-confined deeper aquifer that is being used or may be used as a source of drinking water?

   If **YES**, describe.

   _____

   _____

4. Do the levels of groundwater contamination for any contaminant exceed the gross contamination levels (See Table 2.) established by the Department? NO

Part II - Land Use

Property Containing Source Area of Release

The questions below pertain to the property containing the source area of the release.

1. Does the property contain one or more primary or secondary residences (permanent or temporary)? **NO**

   Describe.

   The property is used for commercial and light industrial businesses – there are no residences on the property.

2. Does the property contain a school, daycare center, hospital, playground, park, recreation area, church, nursing home, or other place of public assembly? **NO**

   Describe.

   _____

   _____

3. Does the property contain a commercial (e.g., retail, warehouse, office/business space, etc.) or industrial (e.g., manufacturing, utilities, industrial research and development, chemical/petroleum bulk storage, etc.) enterprise, an inactive commercial or industrial enterprise, or is the land undeveloped? **YES**

   Describe.

   The property is used for commercial and light industrial businesses such as tax accounting, restaurants, auto parts sales, automotive repair, welding, custom exhaust work.

4. Do children visit the property? **YES**

   Explain.

   Children accompanying patrons of the businesses located on the property may periodically visit the property; however the released constituents associated with Tank #2 underlie an asphalt paved surface. For this reason, MCES does not anticipate that children visiting the site would be exposed to constituents released at the Former Tank #2 location.

   Is access to the property reliably restricted consistent with its use (e.g., by fences, security personnel or both)? **NO**

   Explain.

   The property is open to the public for daily business interation.

5. Do pavement, buildings, or other structures cap the contaminated soil? **YES**

   Describe.

An asphalt paved parking/driving surface covers the area of former 250-gallon UST.

If yes, what mechanisms are in place or can be put into place to ensure that the contaminated soil will remain capped in the foreseeable future?

Maintain and repair the asphalt parking surface as needed.

6. What is the zoning status of the property?

   The property is retail in type and zoning is listed as "PC" according to information obtained from the Wake County, North Carolina Tax Assessors Office via internet.

7. Is the use of the property likely to change in the next 20 years? **NO**

   Explain.

   The property is developed as a retail shopping center and will remain so indefinitely.

Property Surrounding Source Area of Release

The questions below pertain to the area within 1,500 feet of the source area of the release (excludes property containing source area of the release):

1. What is the distance from the source area of the release to the **nearest** primary or secondary residence (permanent or temporary)?

   The distance to the nearest residence is approximately 320 Feet.

2. What is the distance from the source area of the release to the **nearest** school, daycare center, hospital, playground, park, recreation area, church, nursing home or other place of public assembly?

   The nearest place of public assembly appears to be the football field associated with Apex Middle School located approximately 475 feet north (upgradient) of the release area across Williams Street.

3. What is the zoning status of properties in the surrounding area?

   Properties to the west, northeast and south of the release area are zoned residential. Properties to the northwest, east and southeast are zoned commercial. Property to the north of the site is zoned for use by the local board of education.

4. Briefly characterize the use and activities of the land in the surrounding area.

   The residential properties contain houses for human habitation. The commercial properties contain buildings for retail sales, restaurants, automotive repairs, and offices for professional services. The Middle school provides basic education for children.

F. Receptor Information

1. Water Supply Wells

No water supply wells were observed within 1,500 feet of the release area during MCES' drive-by well search. Consultation with Mr. Mike Deaton of the City of Apex, NC Public Works and Utility Department found that water is provided to all residences and businesses by the City of Apex water supply. Mr. Deaton indicated domestic use water wells would not be expected in the vicinity of the subject facility. An internet website review of United States Geological Survey (USGS) National Water Information System showed no water supply wells within 1,500 feet of the subject facility (distance based on Google Earth measure tool). Based on the above findings, MCES finds no apparent water supply wells within 1,500 feet of the subject facility.

2. **Public Water Supplies**

The Wake County Utility Department advised that public water is supplied from Jordan Lake, which is not located within 1,500 feet of the release area.

3. **Surface Water**

An un-named tributary of Middle Creek parallels the southeast boundary of the property and is located approximately 250 feet southeast of the release area.

4. **Wellhead Protection Areas**

Based on a telephone conversation with Mr. Gale Johnson of DENR Wellhead Protection Department, the subject facility is not located within a wellhead protection area. MCES also consulted an internet website NC SWAPinfo at www.swap.deh.enr.state.nc.us/ to review wellhead protection areas on plotted on area a map of Apex, North Carolina. The Map Output on NC SWAPinfo showed no wellhead protection areas in the vicinity of the subject facility.

5. **Deep Aquifers in the Coastal Plain Physiographic Region**

The subject facility is located in the Piedmont Physiographic Region.

6. **Subsurface Structures**

The underground utilities noted in the vicinity of the release area include natural gas and water lines. These utilities are buried in soil and provide no confined space for accumulation of organic vapors. Also, MCES believes the concentrations of the detected petroleum compounds are sufficiently low that vapors would not be expected to accumulate within subsurface structures.

G. Land Use

1. **Property Owners and Occupants**

The Subject facility (Southern Tire and Automotive) is located at 548 E. Williams Street, Apex, North Carolina. This facility operates within the Apex Village Shopping Center (500-610 E. Williams Street), which was recently purchased by New Falls Property, LLC. This property is reported as 5.74 acres and located approximately 775 feet west of the intersection of NC 55 and James Street, off the south right-of-way of NC 55 in Apex, Wake County, North Carolina.

2. **Sensitive Land Use Features**

New Horizons Fellowship Church (Figure 4, Map ID: 2) is located approximately 450 feet southeast of the release area. However, it is located across the un-named tributary of Middle Creek from the release area. Because of the tributary stream likely serves as a hydrologic barrier to groundwater flow from the release area, MCES does not anticipate the release from the subject facility would be likely to impact the New Fellowship Church property.

Apex Middle School (Figure 4, Map ID: 3) is approximately 475 feet up-gradient from the subject facility release area. MCES does not consider Apex Middle School to be a sensitive land use candidate at this time because of its distance and up-gradient location from the release area.

H. Site Geology and Hydrogeology

Based on MCES' review of the United States Geologic Survey (USGS) 7.5-minute topographic quadrangle map titled Apex, North Carolina, the Subject Property is situated at an elevation of approximately 470 feet above mean sea level (msl). The Subject Property has a gently sloping downward topographic gradient to the southeast.

The Subject Property is situated in the Piedmont Physiographic Province of North Carolina. The geology of this area is characterized by sedimentary and metamorphic rock from the late Proterozoic to early Paleozoic era. Lithologies below the property include rock such as gneiss, schist, and amphibolite. These rocks weather to form a reddish-brown soil called residuum, which consists of various amounts of sand, clay and silt mixtures.

Based on review of available information, the most common soil type found in the vicinity of the Subject Property belongs to the Mayodan soil series. Mayodan soil is a sandy loam to and silty clay that belongs to Hydrologic Class "B" and exhibits moderate infiltration rates.

During monitoring well (MW-4) installation on June 17, 2013, groundwater was encountered at 18 feet BGS. After installing the well, the elevation of the potentiometric surface within the monitoring well increased. On June 18, 2013, the equilibrated depth to water measured 3.68 feet below top of casing (BTOC). The direction of groundwater flow at the site is to the southeast, towards a tributary of Middle Creek.

I. Sampling Results

Phase I Investigation

1. Soil Sampling Procedures

During the advancement of the soil boring for MW-4, continuous soil samples were collected using a 5-foot macro-core sampling device with polyethylene liners. Soil samples identified as MW-4, 12' and MW-4, 16' were collected for laboratory analysis of volatile organic compounds (VOCs), semi-VOCs, extractable petroleum hydrocarbons (EPH), volatile petroleum hydrocarbons (VPH), and total lead and chromium. The soil samples were placed in laboratory provided containers, sealed, labeled, and shipped in a cooler with ice to Xenco Laboratories, Inc. under standard chain of custody procedures.

2. Groundwater Sampling Procedures

Upon completion of monitoring well development, a groundwater sample identified as MW-4 was collected for laboratory analysis of VOCs, semi-VOCs, EPH, VPH, and total lead and chromium using a new disposable polyethylene bailer and new nylon cording. The groundwater sample was poured directly from the bailer into laboratory provided containers, sealed, labeled, and shipped in a cooler with ice to Xenco Laboratories, Inc. under standard chain of custody procedures.

3. Monitoring Well Installation and Development

On June 17, 2013, MCES mobilized to the site with Quantex, Inc. to advance soil borings and install groundwater monitoring wells at the Apex Village property to assess subsurface conditions. Monitoring well MW-4 was installed at the former location of Tank #2 to address DENR regulatory requirements associated with Incident Number 39341. A truck-mounted GeoProbe direct-push drilling system was used to advance 2.25-inch diameter borings through surface soils approximately 5 feet south of the former Tank #2 location. The boring was continued to approximately 23-feet below ground surface (BGS). Continuous soil cores were collected to log soil lithology, collect soil samples, and identify depth to groundwater. Groundwater was encountered at approximately 18 feet bgs in the boring for MW-4. Upon completion of the soil boring, 6-inch outer-diameter solid-stem augers were utilized to increase the boring diameter for installation of a groundwater monitoring well. Monitoring well MW-4 was constructed of 2-inch diameter schedule-40 PVC casing with 0.010-inch slotted screen. The well was screened from approximately 5 to 23 feet BGS. A sand filter was placed around the screened interval within the boring annulus from approximately 4 to 23 feet BGS. A bentonite seal was placed on top of the sand filter from approximately 3 to 4 feet BGS. The top of casing was cut off approximately 0.3 feet BGS and sealed with a locking expansion cap. The well was finished with a flush-mounted 8-inch bolt-on cover seated in an approximate 2-foot by 2-foot concrete pad. The MW-4 location is depicted on Figures 2 and 3. The MW-4 soil boring log/well construction diagram is presented in Appendix C.

Monitoring well MW-4 was developed prior to collection of groundwater samples. On June 18, 2013, MCES measured the depth to water in MW-4 at 3.68 feet below top of casing (BTOC). The water source encountered at a depth of 18 feet BGS during boring advancement was apparently under pressure beneath the overlying silty clay stratum, and increased to a higher elevation within the monitoring well. MCES calculated three times the volume of water in the well to equal approximately 10 gallons. MCES used a polyethylene bailer to remove silt and approximately 12 gallons of water from the newly installed well. Groundwater parameters were monitored during the purging activity (dissolved oxygen, pH, termperature, conductivity, turbidity and oxidation/reduction potential). Each parameter stabilized upon completion of development except for turbidity. MCES left the well undisturbed for approximately 2 hours, upon which turbidity had decreased to 69.6 NTUs within the well. At this point MCES considered the monitoring well to be developed as well as is practicable under the circumstances.

J. Conclusions and Recommendations

Upon receipt of the analytical data reports for the soil and groundwater samples, MCES evaluated and compared the results with the regulatory remediation goals for each detected compound. For soil, the established remediation goals are listed in the NCDENR UST Section, Maximum Soil Contaminant Concentrations Table. For groundwater, the established remediation goals are the NCDENR Rule 15A NCAC 02L.0200 Classifications and Groundwater Quality Standards (for Protection of Groundwater).

1. **Soil Analytical Results**

Laboratory analytical data indicated detections of eight compounds in the soil samples collected during installation of MW-4. Of the compounds detected, none exceeded its respective remediation goal. The soil sampling location and results are illustrated on Figure 3. The detected soil compounds and their concentrations are summarized in Table 3. Laboratory analytical reports are included in Appendix B.

2. **Groundwater Analytical Results**

Laboratory analytical data indicated detection of 18 constituents and/or suites of compounds in groundwater sample MW-4. Of the compounds detected in groundwater, only two (2) exceeded their respective remediation goals. The following is a summary of the detected compounds that exceeded their respective remediation goals.

Well ID	Compound	Detected Concentration	NC Remediation Goal
MW-4	Naphthalene	**8.05 µg/l**	6.0 µg/l
MW-4	Tetrachloroethene	**0.98 µg/l**	0.7 µg/l

The concentration of naphthalene did not exceed its respective North Carolina gross contaminant level (GCL) of 6,000 µg/l. The concentration of tetrachloroethene also did not exceed its respective North Carolina GCL of 700 µg/l.

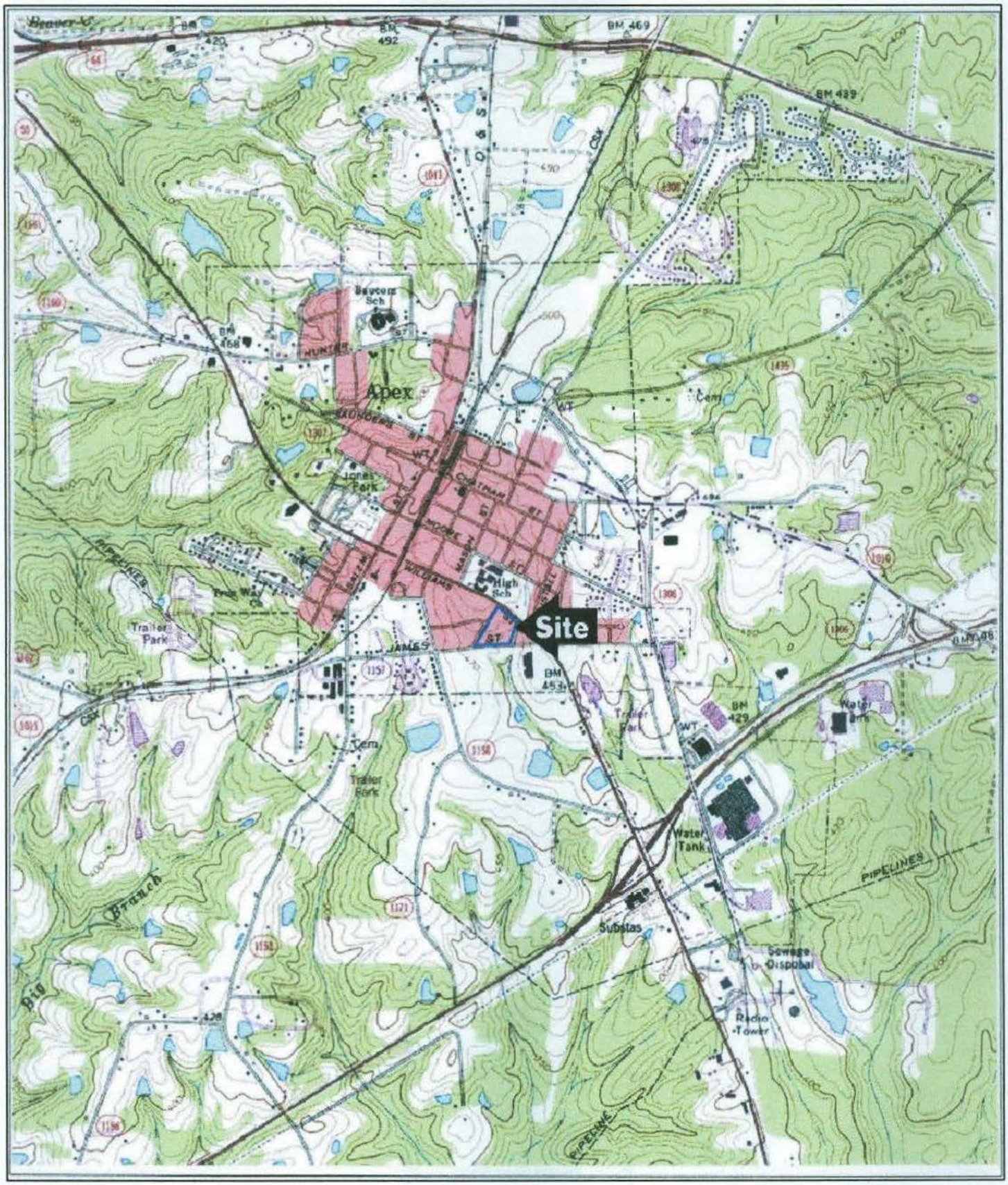
The location of monitoring well MW-4 is depicted on **Figures 2 and 3**. The detected groundwater compounds and their concentrations are summarized in **Table 4**. Laboratory analytical reports are included in **Appendix B.**

The detection of PCE has been reported to the NC Inactive Hazardous Waste Branch under separate cover.

A Notice of Residual Petroleum will be filed with the Wake County Courthouse to be attached to the deed for the subject facility property.

Based on the conditions discussed in Section 2.0 of this Report, MCES finds that the subject facility meets North Carolina DENR UST Program criteria for Low Risk status. MCES respectfully requests that North Carolina DENR grant “No Further Action” status for the subject Facility.

FIGURES



MCES

MILL CREEK ENVIRONMENTAL SERVICES
1818 Perimeter Rd.
Dawsonville, Georgia 30534
706-579-1607

FIGURE 1: SITE LOCATION MAP

Limited Site Assessment
Southern Tire and Automotive
548 E. Williams Street
Apex, North Carolina 27502

0 1000 2000
SCALE IN FEET
1 INCH = 2000 FEET

SOURCE: Maptech Terrain Navigator 1:24,000 scale topographic map, 1997

LEGEND

GW-1 *Groundwater Monitoring Well*

MILL CREEK ENVIRONMENTAL SERVICES
1818 Perimeter Rd.
Dawsonville, Georgia 30534
706-579-1607

FIGURE 2: SITE PLAN
Limited Site Assessment
Southern Tire and Automotive
548 E. Williams Street
Apex, North Carolina 27502

LEGEND

MW-1 Groundwater Monitoring Well Location

Groundwater Analytical Data

GW-2, 1-23-13	Sample ID and Collection Date
Tetrachloroethylene 1.06 ug/l	Detected Compound and Concentration

All concentrations given in micrograms per liter (ug/l)

ND = None Detected in Excess of Clean-Up Criteria

Soil Analytical Data

SB-2, 4-6', 2-7-13	Sample ID and Collection Date
Naphthalene 1.01 mg/kg	Detected Compound and Concentration

All concentrations given in milligrams per kilogram (mg/kg)

ND = None Detected in Excess of Clean-Up Criteria

NOTE: Only those compounds with concentrations in excess of their respective clean-up criteria are shown on this figure. Please refer to laboratory reports for a full list of compounds analysed.

MILL CREEK
ENVIRONMENTAL SERVICES
1818 Perimeter Rd.
Dawsonville, Georgia 30534
706-579-1607

FIGURE 3: SAMPLE LOCATION MAP
Limited Site Assessment
June 17 and 18, 2013
Southern Tire and Automotive
548 E. Williams Street
Apex, North Carolina 27502

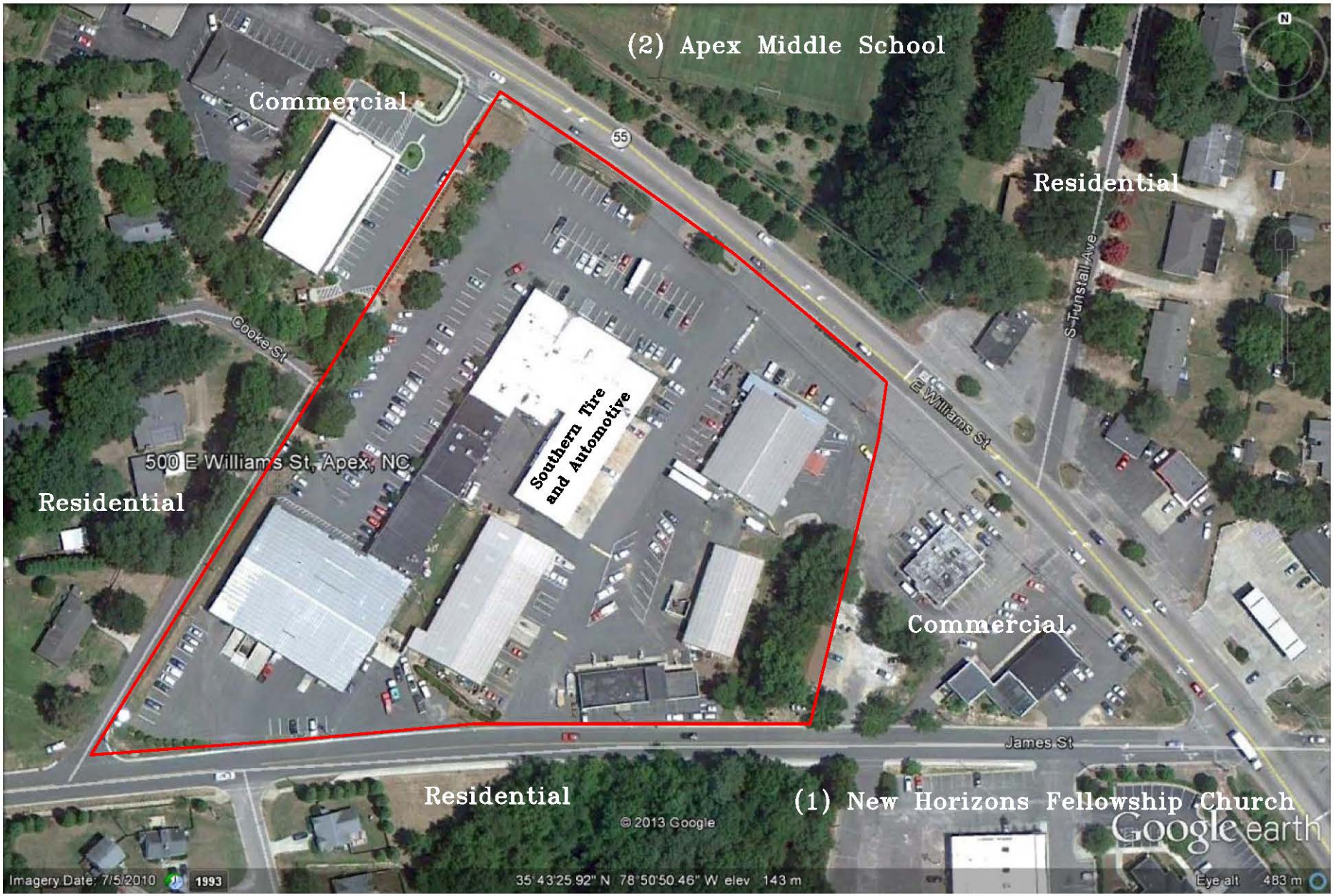


FIGURE 4: Land Use Map

Limited Site Assessment
Southern Tire and Automotive
548 E. Williams Street
Apex, North Carolina 27502

ENVIRONMENTAL SERVICES
1818 Parkmoor Rd.
Dawsonville, Georgia 30534
706-979-1897

Photo Source: Google Earth

TABLES

Table 1: Site History
Underground Storage Tank Information

Southern Tire and Automotive
548 E. Williams Street
Apex, North Carolina
Incident No: 39341

Tank Number	Status	Installation Date	Size In Gallons	Tank Dimensions	Last Contents
2	Closed by Removal	Unknown	250	3’ x 7.5’	Used Oil

Table 2: Site History
UST Owner/Operator

Southern Tire and Automotive
548 E. Williams Street – Apex, North Carolina
Incident No: 39341

UST ID Number	Name of Owner or Operator	Dates of Ownership/Operation	Owner or Operator
2	Southern Tire & Auto	Unknown-present	Operator
Address		**Telephone Number**	
548 E. Williams Street; Apex, NC 27502		919-362-8616	

TABLE 3: SOIL ANAYTICAL RESULTS
SUMMARY OF DETECTED VOLATILE and SEMIVOLATILE ORGANIC COMPOUNDS

Southern Tire and Automotive
548 E. Williams Street
Apex, North Carolina 27502
Incident No: 39341

Sample ID	Date Collected	Depth	Naphthalene	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	o, m, p Xylenes	C-9 thru C-22 Aromatics	Chromium	Lead
Site Sampling Results										
MW-4, 12'	6/17/2013	12'	0.013	0.0012	0.013	ND	0.00215	ND	3.98	7.40
MW-4, 16'	6/17/2013	16'	0.0061	ND	0.0069	0.0015	ND	30.0	3.25	4.91
Regulatory Standards Comparision										
UST Soil to Water MCC			0.16	1.7	8.5	8.3	4.6	31	5.4	270
UST Residential SCL			313	626	782	782	3,129	469	47	400
UST Industrial SCL			8,176	16,350	20,440	20,440	81,760	12,264	1,226	400

NOTES:
Only those constituents that were detected above the laboratory reporting limits are presented in this table.
All results are reported in units of milligrams per kilogram (mg/kg)
Bold results indicate exceedance of the most stringent criteria.

UST = NC DENR Underground Storage Tank Section
MCC = Maximum Contaminant Concentration
SCL = Soil Clean-Up Level

TABLE 4: GROUNDWATER ANAYTICAL RESULTS

SUMMARY OF DETECTED COMPOUNDS

Southern Tire and Automotive
548 E. Williams Street
Apex, North Carolina 27502
Incident No: 39341

Sample ID	Collection Date	C11-C22 Aromatics	C9-C10 Aromatics	C9-C12 Aromatics	Bis(2-ethylhexyl) phthalate	Chloroform	Diisooctyl adipate (TIC)	Hexadecane, 7,9-dimethyl- (TIC)	n-Hexadecanoic acid (TIC)	2-Methylnaphthalene	Naphthalene	Octadecanoic Acid (TIC)	3-Phenylbut-1-ene (Tic)	n-Propylbenzene	Squalene (TIC)	Tetrachloroethene (PCE)	1,2,4-Trimethylbenzene	m,p-Xylenes	o-Xylene
MW-4	6/18/2013	120	20.0	50.0	1.57	1.50	8.22	4.840	64.2	1.560	**8.05**	76.4	4.27	0.610	5.62	**0.980**	7.540	1.54	1.51
NC GWQS		NL	NL	NL	3	70	NL	NL	NL	30	6	NL	NL	70	NL	0.7	400	500	500
NC GCL		NL	NL	NL	170	70,000	NL	NL	NL	12,500	6,000	NL	NL	30,000	NL	700	28,500	85,500	85,500

NOTES:

Only those constituents that were detected above the laboratory reporting limits are presented in this table.

All results are reported in units of micrograms per liter

Bold results indicate exceedance of the NC GWQS

NC GWQS - North Carolina Groundwater Quality Standards 15A NCAC 2L .0202)

NC GCL - North Carolina Gross Contamination Level

NL - Not Listed

Table 5: Current and Historical Groundwater Elevations and Free Product Thickness

Southern Tire and Automotive
548 E. Williams Street – Apex, North Carolina
Incident No: 39341

Well ID #	**Date**	**Screened Interval** (feet BGS)	**Depth to Water* Uncorrected** (feet BTOC)	**Free Product Thickness**	**Depth to Water* Corrected** for Free Product Thickness (feet)	**Top of Casing Elevation** (Arbitrary)	**Groundwater Surface Elevation** (Arbitrary)
MW-4	6/17/13	5-23	3.68	N/A	N/A	97.41	93.73

N/A = not applicable.
BGS = Below ground surface.
BTOC = Below top of casing.
Arbitrary = Survey elevations were based on an arbitrary 100 feet assigned to a benchmark at the subject facility.

Table 6: Land Use Information

Southern Tire and Automotive
548 E. Williams Street
Apex, North Carolina
Incident No: 39341

Tax Parcel Number and (Land Use Map ID)	Owner/Occupant	Address
0741575864 (1)	New Horizons Fellowship, Inc./ New Horizons Fellowship (church)	814 E. Williams Street, Apex, North Carolina 27502
0741593016 (2)	Wake County Board of Education/ Apex Middle School	400 E. Moore Street, Apex, North Carolina 27502

APPENDIX A

WELL DEVELOPMENT LOG

Well Development and Water Quality Log Sheet

Project AU-1301-6 Personnel D. PAYNE Equipment Bailer/Horiba U53

Well ID MW-4 Date 6-18-13 Start Time 1250

End Time

Time	Purge Volume (cumulative gal)	DO (mg/l)	pH (std units)	Temp. (oC)	Cond. (uS/m)	Turb. (NTU)	ORP (mV)		
1301	1	4.03	4.51	22.82	95	>1000	359		
1308	2.5	2.84	4.73	24.06	131	>1000	299		
1314	5	3.12	4.54	23.88	135	>1000	296		
1320	7.5	2.83	4.53	23.81	134	>1000	298		
1326	10	2.96	4.51	23.17	128	492	298		
1335	12	3.11	4.51	21.91	126	765	300		
		Development Terminated - heavy bailer on well							
		to let silt settle out							
1520									
	Collect GW Sample MW-4 for:								
		2.94	4.63	25.54	113	69.6	365		

Purge 3-5 well volumes or until well is dry.
2-inch well = 0.17 gallons/foot of water.

Well Depth 23'

Water Level (-) 3.68

Water Colum 19.32

0.17 g/ft (x) 3.3 One Well Volume

3 Well Volumes (x) 9.8 Minimum Purge Volume

APPENDIX B

CHAIN OF CUSTODY AND LABORATORY ANALYTICAL REPORT

Analytical Report 465343

for

Mill Creek Environmental Services

Project Manager: Dan Centofanti

Apex Village

AV-1301-6

28-JUN-13

Collected By: Client

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Lakeland: Florida (E84098)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

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XENCO Laboratories
Florida Testing Services, LLC

28-JUN-13

Project Manager: **Dan Centofanti**
Mill Creek Environmental Services
1818 Perimeter Road
Dawsonville, GA 30534

Reference: XENCO Report No(s): **465343**
Apex Village
Project Address: GA

Dan Centofanti:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 465343. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 465343 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

David C. Fuller
Client Services Director

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America

Sample Cross Reference 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-4, 12'	S	06-17-13 14:50		465343-001
MW-4, 16'	S	06-17-13 15:00		465343-002
MW-1	W	06-18-13 14:15		465343-003
MW-2	W	06-18-13 14:40		465343-004
MW-3	W	06-18-13 15:00		465343-005
MW-4	W	06-18-13 15:20		465343-006
Trip Blank	W	06-18-13 00:00		465343-007

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-916732 Select Metals by SW-846 6010C
SW6010C

Batch 916732, Iron, Magnesium, Titanium recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Aluminum, Calcium, Phosphorus, Potassium, Silicon, Sulfur recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Manganese recovered above QC limits in the Matrix Spike Duplicate.
Samples affected are: 465343-002, -001.
The Laboratory Control Sample for Aluminum, Magnesium, Sulfur, Calcium, Iron, Manganese, Silicon, Titanium, Potassium, Phosphorus is within laboratory Control Limits

SW6010C

Batch 916732, Calcium, Phosphorus, Sulfur RPD was outside QC limits.
Samples affected are: 465343-002, -001

Batch: LBA-916744 SVOCs by SW-846 8270D
SW8270D_ATL

Batch 916744, 2-Fluorophenol, Phenol-d5 recovered below QC limits Data confirmed by re-analysis.
Samples affected are: 639993-1-BLK.

SW8270D_ATL

Batch 916744, Hexachlorocyclopentadiene recovered below QC limits in the Matrix Spike Duplicate.
Samples affected are: 465343-002, -001.
The Laboratory Control Sample for Hexachlorocyclopentadiene is within laboratory Control Limits

Batch: LBA-916748 VOCs by SW-846 8260B
SW8260B_ATL

Batch 916748, Vinyl acetate recovered below QC limits in the Matrix Spike Duplicate.
Samples affected are: 465343-002, -001.
The Laboratory Control Sample for Vinyl acetate is within laboratory Control Limits

Batch: LBA-916782 MADEP VPH REV 1.1
VPH_ATL

Batch 916782, C9-C12 Aliphatics (Unadj.) recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 465343-006.
The Laboratory Control Sample for C9-C12 Aliphatics (Unadj.) is within laboratory Control Limits

Batch: LBA-917159 VOCs by GC/MS by SM6200B
SM6200B

Batch 917159, cis-1,3-Dichloropropene recovered above QC limits in the Matrix Spike.
Samples affected are: 465343-007, -006.
The Laboratory Control Sample for cis-1,3-Dichloropropene is within laboratory Control Limits

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantiation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Hits Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id : **MW-4, 12'**
Lab Sample Id : 465343-001

Matrix : Soil
Date Collected : 06.17.13 14.50
Date Received : 06.19.13 10.00

% Moisture :
Basis : Wet Weight

Analytical Method : Select Metals by SW-846 6010C
Seq Number 916732

Prep Method: SW3050B
Date Prep: 06.20.13 10.40

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	3.98	mg/kg	06.20.13 17.13	J	1
Lead	7439-92-1	7.40	mg/kg	06.20.13 17.13		1

Analytical Method : VOCs by SW-846 8260B
Seq Number 916748

Prep Method: SW5035
Date Prep: 06.20.13 07.45

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
1,2,4-Trimethylbenzene	95-63-6	0.013	mg/kg	06.20.13 14.03		1
m,p-Xylenes	179601-23-1	0.00114	mg/kg	06.20.13 14.03	J	1
Naphthalene	91-20-3	0.013	mg/kg	06.20.13 14.03		1
n-Propylbenzene	103-65-1	0.0012	mg/kg	06.20.13 14.03		1
o-Xylene	95-47-6	0.00101	mg/kg	06.20.13 14.03		1

Hits Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id : **MW-4, 16'**
Lab Sample Id : 465343-002

Matrix : Soil
Date Collected : 06.17.13 15.00
Date Received : 06.19.13 10.00

% Moisture :
Basis : Wet Weight

Analytical Method : EPH by MADEP Method
Seq Number 917187

Prep Method: SW3550
Date Prep: 06.20.13 12.40

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
Unadjusted C11-C22 Aromatics	C11C22	30.0	mg/kg	06.26.13 04.41		1

Analytical Method : Select Metals by SW-846 6010C
Seq Number 916732

Prep Method: SW3050B
Date Prep: 06.20.13 10.40

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	3.25	mg/kg	06.20.13 17.15	J	1
Lead	7439-92-1	4.91	mg/kg	06.20.13 17.15		1

Analytical Method : VOCs by SW-846 8260B
Seq Number 916748

Prep Method: SW5035
Date Prep: 06.20.13 07.45

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
1,2,4-Trimethylbenzene	95-63-6	0.0069	mg/kg	06.20.13 14.29		1
1,3,5-Trimethylbenzene	108-67-8	0.0015	mg/kg	06.20.13 14.29		1
Naphthalene	91-20-3	0.0061	mg/kg	06.20.13 14.29		1

Hits Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id : **MW-2**
Lab Sample Id :465343-004

Matrix : Ground Water
Date Collected :06.18.13 14.40
Date Received :06.19.13 10.00

% Moisture :

Analytical Method : VOCs by SW-846 8260B
Seq Number 916874

Prep Method: SW5030B
Date Prep: 06.22.13 08.09

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
cis-1,2-Dichloroethene	156-59-2	13.8	ug/L	06.22.13 18.26		1
Tetrachloroethene	127-18-4	30.4	ug/L	06.22.13 18.26		1
Toluene	108-88-3	1.06	ug/L	06.22.13 18.26		1
Trichloroethene	79-01-6	14.6	ug/L	06.22.13 18.26		1

Hits Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id : **MW-3**
Lab Sample Id :465343-005

Matrix : Ground Water
Date Collected :06.18.13 15.00
Date Received :06.19.13 10.00

% Moisture :

Analytical Method : VOCs by SW-846 8260B
Seq Number 916874

Prep Method: SW5030B
Date Prep: 06.22.13 08.09

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
cis-1,2-Dichloroethene	156-59-2	3.49	ug/L	06.22.13 18.52		1
Tetrachloroethene	127-18-4	27.5	ug/L	06.22.13 18.52		1

Hits Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id : **MW-4** Matrix : Ground Water % Moisture :

Lab Sample Id :465343-006 Date Collected :06.18.13 15.20

Date Received :06.19.13 10.00

Analytical Method : EPH by MADEP Method Prep Method: SW3520C

Seq Number 917179 Date Prep: 06.20.13 10.30

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
Unadjusted C11-C22 Aromatics	C11C22	120	ug/L	06.25.13 23.43		1

Analytical Method : MADEP VPH REV 1.1 Prep Method: SW5030B

Seq Number 916782 Date Prep: 06.20.13 08.13

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
C9-C10 Aromatics (Unadj.)	HYDC9C10	20.0	ug/L	06.20.13 16.25		1
C9-C12 Aliphatics (Unadj.)	ALHYDRC9	50.0	ug/L	06.20.13 16.25	X	1

Analytical Method : SVOCs by EPA 625M + 10 TICs Prep Method: E625P

Seq Number 917130 Date Prep: 06.21.13 14.00

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
2-Methylnaphthalene	91-57-6	1.56	ug/L	06.28.13 14.41	J	1
Bis(2-ethylhexyl) phthalate	117-81-7	1.57	ug/L	06.28.13 14.41	J	1
Naphthalene	91-20-3	1.92	ug/L	06.28.13 14.41	J	1
3-Phenylbut-1-ene (TIC)	TIC	4.27	ug/L	06.28.13 14.41	JN	1
Hexadecane, 7,9-dimethyl- (TIC)	TIC	4.84	ug/L	06.28.13 14.41	JN	1
Squalene (TIC)	TIC	5.62	ug/L	06.28.13 14.41	JN	1
n-Hexadecanoic acid (TIC)	TIC	64.2	ug/L	06.28.13 14.41	JN	1
Octadecanoic acid (TIC)	TIC	76.4	ug/L	06.28.13 14.41	JN	1
Diisooctyl adipate (TIC)	TIC	8.22	ug/L	06.28.13 14.41	JN	1

Analytical Method : VOCs by GC/MS by SM6200B Prep Method: SM6200B_PREP

Seq Number 917159 Date Prep: 06.26.13 07.23

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
1,2,4-Trimethylbenzene	95-63-6	7.54	ug/L	06.26.13 11.39		1
Chloroform	67-66-3	1.50	ug/L	06.26.13 11.39		1
Isopropylbenzene	98-82-8	0.220	ug/L	06.26.13 11.39	J	1
Naphthalene	91-20-3	8.05	ug/L	06.26.13 11.39		1
n-Propylbenzene	103-65-1	0.610	ug/L	06.26.13 11.39	J	1
Tetrachloroethene (PCE)	127-18-4	0.980	ug/L	06.26.13 11.39		1
m,p-Xylenes	179601-23-1	1.54	ug/L	06.26.13 11.39		1
o-Xylene	95-47-6	1.51	ug/L	06.26.13 11.39		1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 12'** Matrix: Soil Date Received:06.19.13 10.00

Lab Sample Id: 465343-001 Date Collected: 06.17.13 14.50

Analytical Method: Select Metals by SW-846 6010C Prep Method: SW3050B

Tech: 4150 % Moisture:

Analyst: 4150 Date Prep: 06.20.13 10.40 Basis: Wet Weight

Seq Number: 916732

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	**3.98**	4.67	0.0561	mg/kg	06.20.13 17.13	J	1
Lead	7439-92-1	**7.40**	4.67	0.261	mg/kg	06.20.13 17.13		1

Analytical Method: EPH by MADEP Method Prep Method: SW3550

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.20.13 12.40 Basis: Wet Weight

Seq Number: 917187

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Unadjusted C11-C22 Aromatics	C11C22	U	19.8	19.8	mg/kg	06.26.13 03.16	U	1
Unadjusted C9-C18 Aliphatics	ALHYDRC9C18	U	9.92	9.92	mg/kg	06.26.13 11.51	U	1
Unadjusted C19-C36 Aliphatics	ALHYDRC19C3	U	9.92	9.92	mg/kg	06.26.13 11.51	UX	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctadecane	3386-33-2	66	%	40-140	06.26.13 11.51	
o-Terphenyl	84-15-1	77	%	40-140	06.26.13 03.16	
2-Fluorobiphenyl	321-60-8	90	%	40-140	06.26.13 03.16	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 12'** Matrix: Soil Date Received:06.19.13 10.00

Lab Sample Id: 465343-001 Date Collected: 06.17.13 14.50

Analytical Method: SVOCs by SW-846 8270D Prep Method: SW3550

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.20.13 13.38 Basis: Wet Weight

Seq Number: 916744

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2,4-Trichlorobenzene	120-82-1	U	0.332	0.0587	mg/kg	06.20.13 19.20	U	1
1,2-Dichlorobenzene	95-50-1	U	0.332	0.0537	mg/kg	06.20.13 19.20	U	1
1,2-Diphenylhydrazine	122-66-7	U	0.332	0.0365	mg/kg	06.20.13 19.20	U	1
1,3-Dichlorobenzene	541-73-1	U	0.332	0.0524	mg/kg	06.20.13 19.20	U	1
1,4-Dichlorobenzene	106-46-7	U	0.332	0.0517	mg/kg	06.20.13 19.20	U	1
2,4,6-Trichlorophenol	88-06-2	U	0.332	0.0640	mg/kg	06.20.13 19.20	U	1
2,4-Dichlorophenol	120-83-2	U	0.332	0.0421	mg/kg	06.20.13 19.20	U	1
2,4-Dimethylphenol	105-67-9	U	0.332	0.0604	mg/kg	06.20.13 19.20	U	1
2,4-Dinitrophenol	51-28-5	U	0.332	0.0534	mg/kg	06.20.13 19.20	U	1
2,4-Dinitrotoluene	121-14-2	U	0.332	0.0534	mg/kg	06.20.13 19.20	U	1
2,6-Dinitrotoluene	606-20-2	U	0.332	0.0431	mg/kg	06.20.13 19.20	U	1
2-Chloronaphthalene	91-58-7	U	0.332	0.0604	mg/kg	06.20.13 19.20	U	1
2-Chlorophenol	95-57-8	U	0.332	0.0594	mg/kg	06.20.13 19.20	U	1
2-Methylnaphthalene	91-57-6	U	0.332	0.0507	mg/kg	06.20.13 19.20	U	1
2-methylphenol	95-48-7	U	0.332	0.0464	mg/kg	06.20.13 19.20	U	1
2-Nitrophenol	88-75-5	U	0.332	0.0418	mg/kg	06.20.13 19.20	U	1
3&4-Methylphenol	15831-10-4	U	0.332	0.0982	mg/kg	06.20.13 19.20	U	1
3,3-Dichlorobenzidine	91-94-1	U	0.332	0.0484	mg/kg	06.20.13 19.20	U	1
4,6-dinitro-2-methyl phenol	534-52-1	U	0.332	0.0577	mg/kg	06.20.13 19.20	U	1
4-Bromophenyl-phenylether	101-55-3	U	0.332	0.0564	mg/kg	06.20.13 19.20	U	1
4-chloro-3-methylphenol	59-50-7	U	0.332	0.0474	mg/kg	06.20.13 19.20	U	1
4-Chloroaniline	106-47-8	U	0.332	0.0551	mg/kg	06.20.13 19.20	U	1
4-Chlorophenyl Phenyl Ether	7005-72-3	U	0.332	0.0630	mg/kg	06.20.13 19.20	U	1
4-Nitrophenol	100-02-7	U	0.332	0.0408	mg/kg	06.20.13 19.20	U	1
Acenaphthene	83-32-9	U	0.332	0.0464	mg/kg	06.20.13 19.20	U	1
Acenaphthylene	208-96-8	U	0.332	0.0564	mg/kg	06.20.13 19.20	U	1
Anthracene	120-12-7	U	0.332	0.0491	mg/kg	06.20.13 19.20	U	1
Benzo(a)anthracene	56-55-3	U	0.332	0.0537	mg/kg	06.20.13 19.20	U	1
Benzo(a)pyrene	50-32-8	U	0.332	0.0488	mg/kg	06.20.13 19.20	U	1
Benzo(b)fluoranthene	205-99-2	U	0.332	0.0541	mg/kg	06.20.13 19.20	U	1
Benzo(g,h,i)perylene	191-24-2	U	0.332	0.0547	mg/kg	06.20.13 19.20	U	1
Benzo(k)fluoranthene	207-08-9	U	0.332	0.0570	mg/kg	06.20.13 19.20	U	1
Benzoic Acid	65-85-0	U	0.332	0.0524	mg/kg	06.20.13 19.20	U	1
Benzyl Alcohol	100-51-6	U	0.332	0.0531	mg/kg	06.20.13 19.20	U	1
bis(2-chloroethoxy) methane	111-91-1	U	0.332	0.0398	mg/kg	06.20.13 19.20	U	1
bis(2-chloroethyl) ether	111-44-4	U	0.332	0.0471	mg/kg	06.20.13 19.20	U	1
bis(2-chloroisopropyl) ether	39638-32-9	U	0.332	0.0448	mg/kg	06.20.13 19.20	U	1
bis(2-ethylhexyl) phthalate	117-81-7	U	0.332	0.0537	mg/kg	06.20.13 19.20	U	1
Butylbenzylphthalate	85-68-7	U	0.332	0.0498	mg/kg	06.20.13 19.20	U	1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 12'**
Lab Sample Id: 465343-001

Matrix: Soil
Date Collected: 06.17.13 14.50

Date Received: 06.19.13 10.00

Analytical Method: SVOCs by SW-846 8270D
Tech: BRO
Analyst: NTR
Seq Number: 916744

Date Prep: 06.20.13 13.38

Prep Method: SW3550
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chrysene	218-01-9	U	0.332	0.0441	mg/kg	06.20.13 19.20	U	1
Dibenz(a,h)Anthracene	53-70-3	U	0.332	0.0643	mg/kg	06.20.13 19.20	U	1
Dibenzofuran	132-64-9	U	0.332	0.0425	mg/kg	06.20.13 19.20	U	1
Diethyl Phthalate	84-66-2	U	0.332	0.0534	mg/kg	06.20.13 19.20	U	1
Dimethyl Phthalate	131-11-3	U	0.332	0.0501	mg/kg	06.20.13 19.20	U	1
di-n-Butyl Phthalate	84-74-2	U	0.332	0.0610	mg/kg	06.20.13 19.20	U	1
di-n-Octyl Phthalate	117-84-0	U	0.332	0.0551	mg/kg	06.20.13 19.20	U	1
Fluoranthene	206-44-0	U	0.332	0.0431	mg/kg	06.20.13 19.20	U	1
Fluorene	86-73-7	U	0.332	0.0405	mg/kg	06.20.13 19.20	U	1
Hexachlorobenzene	118-74-1	U	0.332	0.0554	mg/kg	06.20.13 19.20	U	1
Hexachlorobutadiene	87-68-3	U	0.332	0.0368	mg/kg	06.20.13 19.20	U	1
Hexachlorocyclopentadiene	77-47-4	U	0.332	0.0570	mg/kg	06.20.13 19.20	UX	1
Hexachloroethane	67-72-1	U	0.332	0.0514	mg/kg	06.20.13 19.20	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	U	0.332	0.0604	mg/kg	06.20.13 19.20	U	1
Isophorone	78-59-1	U	0.332	0.0342	mg/kg	06.20.13 19.20	U	1
Naphthalene	91-20-3	U	0.332	0.0531	mg/kg	06.20.13 19.20	U	1
Nitrobenzene	98-95-3	U	0.332	0.0590	mg/kg	06.20.13 19.20	U	1
N-Nitrosodi-n-Propylamine	621-64-7	U	0.332	0.0474	mg/kg	06.20.13 19.20	U	1
N-Nitrosodiphenylamine	86-30-6	U	0.332	0.0697	mg/kg	06.20.13 19.20	U	1
Pentachlorophenol	87-86-5	U	0.332	0.0600	mg/kg	06.20.13 19.20	U	1
Phenanthrene	85-01-8	U	0.332	0.0551	mg/kg	06.20.13 19.20	U	1
Phenol	108-95-2	U	0.332	0.0464	mg/kg	06.20.13 19.20	U	1
Pyrene	129-00-0	U	0.332	0.0564	mg/kg	06.20.13 19.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
2-Fluorobiphenyl	321-60-8	56	%	20-112	06.20.13 19.20	
2-Fluorophenol	367-12-4	52	%	18-101	06.20.13 19.20	
Nitrobenzene-d5	4165-60-0	50	%	13-112	06.20.13 19.20	
Phenol-d5	4165-62-2	51	%	15-110	06.20.13 19.20	
Terphenyl-D14	1718-51-0	60	%	21-138	06.20.13 19.20	
2,4,6-Tribromophenol	118-79-6	69	%	21-128	06.20.13 19.20	

Final 1.000

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id:	**MW-4, 12'**	Matrix:	Soil	Date Received:	06.19.13 10.00
Lab Sample Id:	465343-001	Date Collected:	06.17.13 14.50		

Analytical Method:	MADEP VPH REV 1.1			Prep Method:	SW5030B
Tech:	BAT			% Moisture:	
Analyst:	MLA	Date Prep:	06.26.13 07.39	Basis:	Wet Weight
Seq Number:	917180				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Unadjusted C5-C8 Aliphatics	ALHYDRC5C8	U	0.750	0.750	mg/kg	06.26.13 11.46	U	50
Unadjusted C9-C12 Aliphatics	ALHYDRC9C1	U	0.750	0.750	mg/kg	06.26.13 11.46	U	50
Unadjusted C9-C10 Aromatics	HYDC9C10	U	0.250	0.250	mg/kg	06.26.13 11.46	U	50

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
2,5-Dibromotoluene	615-59-8	125	%	70-130	06.26.13 11.46	
2,5-Dibromotoluene (PID)	615-59-8	125	%	70-130	06.26.13 11.46	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 12'** Matrix: Soil Date Received:06.19.13 10.00

Lab Sample Id: 465343-001 Date Collected: 06.17.13 14.50

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5035

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.20.13 07.45 Basis: Wet Weight

Seq Number: 916748

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	0.00084	0.00063	mg/kg	06.20.13 14.03	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.0017	0.00100	mg/kg	06.20.13 14.03	U	1
1,1,2-Trichloroethane	79-00-5	U	0.00084	0.00056	mg/kg	06.20.13 14.03	U	1
1,1-Dichloroethane	75-34-3	U	0.00084	0.00067	mg/kg	06.20.13 14.03	U	1
1,1-Dichloroethene	75-35-4	U	0.0017	0.00097	mg/kg	06.20.13 14.03	U	1
1,1-Dichloropropene	563-58-6	U	0.00084	0.00045	mg/kg	06.20.13 14.03	U	1
1,2,3-Trichlorobenzene	87-61-6	U	0.00084	0.00048	mg/kg	06.20.13 14.03	U	1
1,2,3-Trichloropropane	96-18-4	U	0.0017	0.0014	mg/kg	06.20.13 14.03	U	1
1,2,4-Trichlorobenzene	120-82-1	U	0.00084	0.00073	mg/kg	06.20.13 14.03	U	1
1,2,4-Trimethylbenzene	95-63-6	**0.013**	0.00084	0.00060	mg/kg	06.20.13 14.03		1
1,2-Dibromoethane (EDB)	106-93-4	U	0.00084	0.00072	mg/kg	06.20.13 14.03	U	1
1,2-Dichlorobenzene	95-50-1	U	0.0017	0.0011	mg/kg	06.20.13 14.03	U	1
1,2-Dichloroethane	107-06-2	U	0.00084	0.00050	mg/kg	06.20.13 14.03	U	1
1,2-Dichloropropane	78-87-5	U	0.00084	0.00078	mg/kg	06.20.13 14.03	U	1
1,3,5-Trimethylbenzene	108-67-8	U	0.00084	0.00068	mg/kg	06.20.13 14.03	U	1
1,3-Dichlorobenzene	541-73-1	U	0.00084	0.00084	mg/kg	06.20.13 14.03	U	1
1,3-Dichloropropane	142-28-9	U	0.00084	0.00058	mg/kg	06.20.13 14.03	U	1
1,4-Dichlorobenzene	106-46-7	U	0.00084	0.00057	mg/kg	06.20.13 14.03	U	1
2,2-Dichloropropane	594-20-7	U	0.00084	0.00050	mg/kg	06.20.13 14.03	U	1
2-Butanone (MEK)	78-93-3	U	0.0084	0.0019	mg/kg	06.20.13 14.03	U	1
2-Chlorotoluene	95-49-8	U	0.00084	0.00059	mg/kg	06.20.13 14.03	U	1
2-Hexanone	591-78-6	U	0.0084	0.00095	mg/kg	06.20.13 14.03	U	1
4-Chlorotoluene	106-43-4	U	0.00084	0.00046	mg/kg	06.20.13 14.03	U	1
4-Isopropyltoluene	99-87-6	U	0.00084	0.00067	mg/kg	06.20.13 14.03	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	0.0084	0.0027	mg/kg	06.20.13 14.03	U	1
Acetone	67-64-1	U	0.0084	0.0058	mg/kg	06.20.13 14.03	U	1
Benzene	71-43-2	U	0.00084	0.00043	mg/kg	06.20.13 14.03	U	1
Bromobenzene	108-86-1	U	0.00084	0.00072	mg/kg	06.20.13 14.03	U	1
Bromochloromethane	74-97-5	U	0.0017	0.00084	mg/kg	06.20.13 14.03	U	1
Bromodichloromethane	75-27-4	U	0.00084	0.00042	mg/kg	06.20.13 14.03	U	1
Bromoform	75-25-2	U	0.00084	0.00080	mg/kg	06.20.13 14.03	U	1
Bromomethane	74-83-9	U	0.0042	0.0021	mg/kg	06.20.13 14.03	U	1
Carbon tetrachloride	56-23-5	U	0.00084	0.00062	mg/kg	06.20.13 14.03	U	1
Chlorobenzene	108-90-7	U	0.00084	0.00049	mg/kg	06.20.13 14.03	U	1
Chlorodibromomethane	124-48-1	U	0.00084	0.00083	mg/kg	06.20.13 14.03	U	1
Chloroethane	75-00-3	U	0.0042	0.0021	mg/kg	06.20.13 14.03	U	1
Chloroform	67-66-3	U	0.00084	0.00062	mg/kg	06.20.13 14.03	U	1
Chloromethane	74-87-3	U	0.0042	0.0019	mg/kg	06.20.13 14.03	U	1
cis-1,2-Dichloroethene	156-59-2	U	0.00084	0.00056	mg/kg	06.20.13 14.03	U	1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 12'** Matrix: Soil Date Received:06.19.13 10.00

Lab Sample Id: 465343-001 Date Collected: 06.17.13 14.50

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5035

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.20.13 07.45 Basis: Wet Weight

Seq Number: 916748

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	0.00084	0.00045	mg/kg	06.20.13 14.03	U	1
Dichlorodifluoromethane	75-71-8	U	0.0017	0.00099	mg/kg	06.20.13 14.03	U	1
Ethanol	64-17-5	U	0.042	0.024	mg/kg	06.20.13 14.03	U	1
Ethylbenzene	100-41-4	U	0.00084	0.00047	mg/kg	06.20.13 14.03	U	1
Isopropyl Ether	108-20-3	U	0.0017	0.0011	mg/kg	06.20.13 14.03	U	1
Isopropylbenzene	98-82-8	U	0.00084	0.00064	mg/kg	06.20.13 14.03	U	1
m,p-Xylenes	179601-23-1	**0.00114**	0.00168	0.00101	mg/kg	06.20.13 14.03	J	1
Methyl tert-butyl ether	1634-04-4	U	0.0017	0.00058	mg/kg	06.20.13 14.03	U	1
Methylene chloride	75-09-2	U	0.0042	0.0018	mg/kg	06.20.13 14.03	U	1
Naphthalene	91-20-3	**0.013**	0.0017	0.0011	mg/kg	06.20.13 14.03		1
n-Butylbenzene	104-51-8	U	0.00084	0.00074	mg/kg	06.20.13 14.03	U	1
n-Propylbenzene	103-65-1	**0.0012**	0.00084	0.00066	mg/kg	06.20.13 14.03		1
o-Xylene	95-47-6	**0.00101**	0.000839	0.000601	mg/kg	06.20.13 14.03		1
sec-Butylbenzene	135-98-8	U	0.00084	0.00055	mg/kg	06.20.13 14.03	U	1
Styrene	100-42-5	U	0.00084	0.00062	mg/kg	06.20.13 14.03	U	1
tert-Butylbenzene	98-06-6	U	0.00084	0.00070	mg/kg	06.20.13 14.03	U	1
Tetrachloroethene	127-18-4	U	0.0017	0.00087	mg/kg	06.20.13 14.03	U	1
Toluene	108-88-3	U	0.00084	0.00049	mg/kg	06.20.13 14.03	U	1
trans-1,2-Dichloroethene	156-60-5	U	0.00084	0.00065	mg/kg	06.20.13 14.03	U	1
trans-1,3-Dichloropropene	10061-02-6	U	0.00084	0.00056	mg/kg	06.20.13 14.03	U	1
Trichloroethene	79-01-6	U	0.00084	0.00059	mg/kg	06.20.13 14.03	U	1
Trichlorofluoromethane	75-69-4	U	0.0042	0.0029	mg/kg	06.20.13 14.03	U	1
Vinyl acetate	108-05-4	U	0.0042	0.00060	mg/kg	06.20.13 14.03	U	1
Vinyl chloride	75-01-4	U	0.0042	0.0017	mg/kg	06.20.13 14.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	109	%	50-150	06.20.13 14.03	
4-Bromofluorobenzene	460-00-4	103	%	57-158	06.20.13 14.03	
Toluene-D8	2037-26-5	96	%	50-150	06.20.13 14.03	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 16'** Matrix: Soil Date Received:06.19.13 10.00

Lab Sample Id: 465343-002 Date Collected: 06.17.13 15.00

Analytical Method: Select Metals by SW-846 6010C Prep Method: SW3050B

Tech: 4150 % Moisture:

Analyst: 4150 Date Prep: 06.20.13 10.40 Basis: Wet Weight

Seq Number: 916732

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	**3.25**	3.62	0.0435	mg/kg	06.20.13 17.15	J	1
Lead	7439-92-1	**4.91**	3.62	0.202	mg/kg	06.20.13 17.15		1

Analytical Method: EPH by MADEP Method Prep Method: SW3550

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.20.13 12.40 Basis: Wet Weight

Seq Number: 917187

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Unadjusted C11-C22 Aromatics	C11C22	**30.0**	19.8	19.8	mg/kg	06.26.13 04.41		1
Unadjusted C9-C18 Aliphatics	ALHYDRC9C18	U	9.89	9.89	mg/kg	06.26.13 13.09	U	1
Unadjusted C19-C36 Aliphatics	ALHYDRC19C3	U	9.89	9.89	mg/kg	06.26.13 13.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctadecane	3386-33-2	63	%	40-140	06.26.13 13.09	
o-Terphenyl	84-15-1	69	%	40-140	06.26.13 04.41	
2-Fluorobiphenyl	321-60-8	44	%	40-140	06.26.13 04.41	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 16'**
Lab Sample Id: 465343-002

Matrix: Soil
Date Collected: 06.17.13 15.00

Date Received: 06.19.13 10.00

Analytical Method: SVOCs by SW-846 8270D
Tech: BRO
Analyst: NTR
Seq Number: 916744

Date Prep: 06.20.13 13.38

Prep Method: SW3550
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2,4-Trichlorobenzene	120-82-1	U	0.333	0.0589	mg/kg	06.20.13 19.48	U	1
1,2-Dichlorobenzene	95-50-1	U	0.333	0.0539	mg/kg	06.20.13 19.48	U	1
1,2-Diphenylhydrazine	122-66-7	U	0.333	0.0366	mg/kg	06.20.13 19.48	U	1
1,3-Dichlorobenzene	541-73-1	U	0.333	0.0526	mg/kg	06.20.13 19.48	U	1
1,4-Dichlorobenzene	106-46-7	U	0.333	0.0519	mg/kg	06.20.13 19.48	U	1
2,4,6-Trichlorophenol	88-06-2	U	0.333	0.0642	mg/kg	06.20.13 19.48	U	1
2,4-Dichlorophenol	120-83-2	U	0.333	0.0422	mg/kg	06.20.13 19.48	U	1
2,4-Dimethylphenol	105-67-9	U	0.333	0.0605	mg/kg	06.20.13 19.48	U	1
2,4-Dinitrophenol	51-28-5	U	0.333	0.0536	mg/kg	06.20.13 19.48	U	1
2,4-Dinitrotoluene	121-14-2	U	0.333	0.0536	mg/kg	06.20.13 19.48	U	1
2,6-Dinitrotoluene	606-20-2	U	0.333	0.0432	mg/kg	06.20.13 19.48	U	1
2-Chloronaphthalene	91-58-7	U	0.333	0.0605	mg/kg	06.20.13 19.48	U	1
2-Chlorophenol	95-57-8	U	0.333	0.0595	mg/kg	06.20.13 19.48	U	1
2-Methylnaphthalene	91-57-6	U	0.333	0.0509	mg/kg	06.20.13 19.48	U	1
2-methylphenol	95-48-7	U	0.333	0.0466	mg/kg	06.20.13 19.48	U	1
2-Nitrophenol	88-75-5	U	0.333	0.0419	mg/kg	06.20.13 19.48	U	1
3&4-Methylphenol	15831-10-4	U	0.333	0.0985	mg/kg	06.20.13 19.48	U	1
3,3-Dichlorobenzidine	91-94-1	U	0.333	0.0486	mg/kg	06.20.13 19.48	U	1
4,6-dinitro-2-methyl phenol	534-52-1	U	0.333	0.0579	mg/kg	06.20.13 19.48	U	1
4-Bromophenyl-phenylether	101-55-3	U	0.333	0.0566	mg/kg	06.20.13 19.48	U	1
4-chloro-3-methylphenol	59-50-7	U	0.333	0.0476	mg/kg	06.20.13 19.48	U	1
4-Chloroaniline	106-47-8	U	0.333	0.0552	mg/kg	06.20.13 19.48	U	1
4-Chlorophenyl Phenyl Ether	7005-72-3	U	0.333	0.0632	mg/kg	06.20.13 19.48	U	1
4-Nitrophenol	100-02-7	U	0.333	0.0409	mg/kg	06.20.13 19.48	U	1
Acenaphthene	83-32-9	U	0.333	0.0466	mg/kg	06.20.13 19.48	U	1
Acenaphthylene	208-96-8	U	0.333	0.0566	mg/kg	06.20.13 19.48	U	1
Anthracene	120-12-7	U	0.333	0.0492	mg/kg	06.20.13 19.48	U	1
Benzo(a)anthracene	56-55-3	U	0.333	0.0539	mg/kg	06.20.13 19.48	U	1
Benzo(a)pyrene	50-32-8	U	0.333	0.0489	mg/kg	06.20.13 19.48	U	1
Benzo(b)fluoranthene	205-99-2	U	0.333	0.0542	mg/kg	06.20.13 19.48	U	1
Benzo(g,h,i)perylene	191-24-2	U	0.333	0.0549	mg/kg	06.20.13 19.48	U	1
Benzo(k)fluoranthene	207-08-9	U	0.333	0.0572	mg/kg	06.20.13 19.48	U	1
Benzoic Acid	65-85-0	U	0.333	0.0526	mg/kg	06.20.13 19.48	U	1
Benzyl Alcohol	100-51-6	U	0.333	0.0532	mg/kg	06.20.13 19.48	U	1
bis(2-chloroethoxy) methane	111-91-1	U	0.333	0.0399	mg/kg	06.20.13 19.48	U	1
bis(2-chloroethyl) ether	111-44-4	U	0.333	0.0472	mg/kg	06.20.13 19.48	U	1
bis(2-chloroisopropyl) ether	39638-32-9	U	0.333	0.0449	mg/kg	06.20.13 19.48	U	1
bis(2-ethylhexyl) phthalate	117-81-7	U	0.333	0.0539	mg/kg	06.20.13 19.48	U	1
Butylbenzylphthalate	85-68-7	U	0.333	0.0499	mg/kg	06.20.13 19.48	U	1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 16'**
Lab Sample Id: 465343-002

Matrix: Soil
Date Collected: 06.17.13 15.00

Date Received: 06.19.13 10.00

Analytical Method: SVOCs by SW-846 8270D
Tech: BRO
Analyst: NTR
Seq Number: 916744

Date Prep: 06.20.13 13.38

Prep Method: SW3550
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chrysene	218-01-9	U	0.333	0.0442	mg/kg	06.20.13 19.48	U	1
Dibenz(a,h)Anthracene	53-70-3	U	0.333	0.0645	mg/kg	06.20.13 19.48	U	1
Dibenzofuran	132-64-9	U	0.333	0.0426	mg/kg	06.20.13 19.48	U	1
Diethyl Phthalate	84-66-2	U	0.333	0.0536	mg/kg	06.20.13 19.48	U	1
Dimethyl Phthalate	131-11-3	U	0.333	0.0502	mg/kg	06.20.13 19.48	U	1
di-n-Butyl Phthalate	84-74-2	U	0.333	0.0612	mg/kg	06.20.13 19.48	U	1
di-n-Octyl Phthalate	117-84-0	U	0.333	0.0552	mg/kg	06.20.13 19.48	U	1
Fluoranthene	206-44-0	U	0.333	0.0432	mg/kg	06.20.13 19.48	U	1
Fluorene	86-73-7	U	0.333	0.0406	mg/kg	06.20.13 19.48	U	1
Hexachlorobenzene	118-74-1	U	0.333	0.0556	mg/kg	06.20.13 19.48	U	1
Hexachlorobutadiene	87-68-3	U	0.333	0.0369	mg/kg	06.20.13 19.48	U	1
Hexachlorocyclopentadiene	77-47-4	U	0.333	0.0572	mg/kg	06.20.13 19.48	U	1
Hexachloroethane	67-72-1	U	0.333	0.0516	mg/kg	06.20.13 19.48	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	U	0.333	0.0605	mg/kg	06.20.13 19.48	U	1
Isophorone	78-59-1	U	0.333	0.0343	mg/kg	06.20.13 19.48	U	1
Naphthalene	91-20-3	U	0.333	0.0532	mg/kg	06.20.13 19.48	U	1
Nitrobenzene	98-95-3	U	0.333	0.0592	mg/kg	06.20.13 19.48	U	1
N-Nitrosodi-n-Propylamine	621-64-7	U	0.333	0.0476	mg/kg	06.20.13 19.48	U	1
N-Nitrosodiphenylamine	86-30-6	U	0.333	0.0699	mg/kg	06.20.13 19.48	U	1
Pentachlorophenol	87-86-5	U	0.333	0.0602	mg/kg	06.20.13 19.48	U	1
Phenanthrene	85-01-8	U	0.333	0.0552	mg/kg	06.20.13 19.48	U	1
Phenol	108-95-2	U	0.333	0.0466	mg/kg	06.20.13 19.48	U	1
Pyrene	129-00-0	U	0.333	0.0566	mg/kg	06.20.13 19.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
2-Fluorobiphenyl	321-60-8	67	%	20-112	06.20.13 19.48	
2-Fluorophenol	367-12-4	62	%	18-101	06.20.13 19.48	
Nitrobenzene-d5	4165-60-0	62	%	13-112	06.20.13 19.48	
Phenol-d5	4165-62-2	60	%	15-110	06.20.13 19.48	
Terphenyl-D14	1718-51-0	79	%	21-138	06.20.13 19.48	
2,4,6-Tribromophenol	118-79-6	83	%	21-128	06.20.13 19.48	

Final 1.000

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 16'**
Lab Sample Id: 465343-002

Matrix: Soil
Date Collected: 06.17.13 15.00

Date Received: 06.19.13 10.00

Analytical Method: MADEP VPH REV 1.1
Tech: BAT
Analyst: MLA
Seq Number: 917180

Date Prep: 06.26.13 07.39

Prep Method: SW5030B
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Unadjusted C5-C8 Aliphatics	ALHYDRC5C8	U	0.750	0.750	mg/kg	06.26.13 12.30	U	50
Unadjusted C9-C12 Aliphatics	ALHYDRC9C1	U	0.750	0.750	mg/kg	06.26.13 12.30	U	50
Unadjusted C9-C10 Aromatics	HYDC9C10	U	0.250	0.250	mg/kg	06.26.13 12.30	U	50

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
2,5-Dibromotoluene	615-59-8	75	%	70-130	06.26.13 12.30	
2,5-Dibromotoluene (PID)	615-59-8	75	%	70-130	06.26.13 12.30	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 16'** Matrix: Soil Date Received:06.19.13 10.00

Lab Sample Id: 465343-002 Date Collected: 06.17.13 15.00

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5035

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.20.13 07.45 Basis: Wet Weight

Seq Number: 916748

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	0.00087	0.00066	mg/kg	06.20.13 14.29	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.0017	0.0010	mg/kg	06.20.13 14.29	U	1
1,1,2-Trichloroethane	79-00-5	U	0.00087	0.00058	mg/kg	06.20.13 14.29	U	1
1,1-Dichloroethane	75-34-3	U	0.00087	0.00070	mg/kg	06.20.13 14.29	U	1
1,1-Dichloroethene	75-35-4	U	0.0017	0.0010	mg/kg	06.20.13 14.29	U	1
1,1-Dichloropropene	563-58-6	U	0.00087	0.00047	mg/kg	06.20.13 14.29	U	1
1,2,3-Trichlorobenzene	87-61-6	U	0.00087	0.00050	mg/kg	06.20.13 14.29	U	1
1,2,3-Trichloropropane	96-18-4	U	0.0017	0.0014	mg/kg	06.20.13 14.29	U	1
1,2,4-Trichlorobenzene	120-82-1	U	0.00087	0.00076	mg/kg	06.20.13 14.29	U	1
1,2,4-Trimethylbenzene	95-63-6	**0.0069**	0.00087	0.00063	mg/kg	06.20.13 14.29		1
1,2-Dibromoethane (EDB)	106-93-4	U	0.00087	0.00075	mg/kg	06.20.13 14.29	U	1
1,2-Dichlorobenzene	95-50-1	U	0.0017	0.0011	mg/kg	06.20.13 14.29	U	1
1,2-Dichloroethane	107-06-2	U	0.00087	0.00052	mg/kg	06.20.13 14.29	U	1
1,2-Dichloropropane	78-87-5	U	0.00087	0.00081	mg/kg	06.20.13 14.29	U	1
1,3,5-Trimethylbenzene	108-67-8	**0.0015**	0.00087	0.00071	mg/kg	06.20.13 14.29		1
1,3-Dichlorobenzene	541-73-1	U	0.00087	0.00087	mg/kg	06.20.13 14.29	U	1
1,3-Dichloropropane	142-28-9	U	0.00087	0.00060	mg/kg	06.20.13 14.29	U	1
1,4-Dichlorobenzene	106-46-7	U	0.00087	0.00060	mg/kg	06.20.13 14.29	U	1
2,2-Dichloropropane	594-20-7	U	0.00087	0.00052	mg/kg	06.20.13 14.29	U	1
2-Butanone (MEK)	78-93-3	U	0.0087	0.0020	mg/kg	06.20.13 14.29	U	1
2-Chlorotoluene	95-49-8	U	0.00087	0.00062	mg/kg	06.20.13 14.29	U	1
2-Hexanone	591-78-6	U	0.0087	0.00098	mg/kg	06.20.13 14.29	U	1
4-Chlorotoluene	106-43-4	U	0.00087	0.00048	mg/kg	06.20.13 14.29	U	1
4-Isopropyltoluene	99-87-6	U	0.00087	0.00070	mg/kg	06.20.13 14.29	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	0.0087	0.0028	mg/kg	06.20.13 14.29	U	1
Acetone	67-64-1	U	0.0087	0.0060	mg/kg	06.20.13 14.29	U	1
Benzene	71-43-2	U	0.00087	0.00045	mg/kg	06.20.13 14.29	U	1
Bromobenzene	108-86-1	U	0.00087	0.00074	mg/kg	06.20.13 14.29	U	1
Bromochloromethane	74-97-5	U	0.0017	0.00088	mg/kg	06.20.13 14.29	U	1
Bromodichloromethane	75-27-4	U	0.00087	0.00044	mg/kg	06.20.13 14.29	U	1
Bromoform	75-25-2	U	0.00087	0.00084	mg/kg	06.20.13 14.29	U	1
Bromomethane	74-83-9	U	0.0044	0.0021	mg/kg	06.20.13 14.29	U	1
Carbon tetrachloride	56-23-5	U	0.00087	0.00065	mg/kg	06.20.13 14.29	U	1
Chlorobenzene	108-90-7	U	0.00087	0.00050	mg/kg	06.20.13 14.29	U	1
Chlorodibromomethane	124-48-1	U	0.00087	0.00087	mg/kg	06.20.13 14.29	U	1
Chloroethane	75-00-3	U	0.0044	0.0021	mg/kg	06.20.13 14.29	U	1
Chloroform	67-66-3	U	0.00087	0.00065	mg/kg	06.20.13 14.29	U	1
Chloromethane	74-87-3	U	0.0044	0.0020	mg/kg	06.20.13 14.29	U	1
cis-1,2-Dichloroethene	156-59-2	U	0.00087	0.00058	mg/kg	06.20.13 14.29	U	1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 16'** Matrix: Soil Date Received:06.19.13 10.00

Lab Sample Id: 465343-002 Date Collected: 06.17.13 15.00

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5035

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.20.13 07.45 Basis: Wet Weight

Seq Number: 916748

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	0.00087	0.00047	mg/kg	06.20.13 14.29	U	1
Dichlorodifluoromethane	75-71-8	U	0.0017	0.0010	mg/kg	06.20.13 14.29	U	1
Ethanol	64-17-5	U	0.044	0.024	mg/kg	06.20.13 14.29	U	1
Ethylbenzene	100-41-4	U	0.00087	0.00049	mg/kg	06.20.13 14.29	U	1
Isopropyl Ether	108-20-3	U	0.0017	0.0011	mg/kg	06.20.13 14.29	U	1
Isopropylbenzene	98-82-8	U	0.00087	0.00066	mg/kg	06.20.13 14.29	U	1
m,p-Xylenes	179601-23-1	U	0.00174	0.00105	mg/kg	06.20.13 14.29	U	1
Methyl tert-butyl ether	1634-04-4	U	0.0017	0.00060	mg/kg	06.20.13 14.29	U	1
Methylene chloride	75-09-2	U	0.0044	0.0019	mg/kg	06.20.13 14.29	U	1
Naphthalene	91-20-3	**0.0061**	0.0017	0.0011	mg/kg	06.20.13 14.29		1
n-Butylbenzene	104-51-8	U	0.00087	0.00077	mg/kg	06.20.13 14.29	U	1
n-Propylbenzene	103-65-1	U	0.00087	0.00068	mg/kg	06.20.13 14.29	U	1
o-Xylene	95-47-6	U	0.000871	0.000624	mg/kg	06.20.13 14.29	U	1
sec-Butylbenzene	135-98-8	U	0.00087	0.00057	mg/kg	06.20.13 14.29	U	1
Styrene	100-42-5	U	0.00087	0.00065	mg/kg	06.20.13 14.29	U	1
tert-Butylbenzene	98-06-6	U	0.00087	0.00073	mg/kg	06.20.13 14.29	U	1
Tetrachloroethene	127-18-4	U	0.0017	0.00090	mg/kg	06.20.13 14.29	U	1
Toluene	108-88-3	U	0.00087	0.00051	mg/kg	06.20.13 14.29	U	1
trans-1,2-Dichloroethene	156-60-5	U	0.00087	0.00068	mg/kg	06.20.13 14.29	U	1
trans-1,3-Dichloropropene	10061-02-6	U	0.00087	0.00058	mg/kg	06.20.13 14.29	U	1
Trichloroethene	79-01-6	U	0.00087	0.00062	mg/kg	06.20.13 14.29	U	1
Trichlorofluoromethane	75-69-4	U	0.0044	0.0031	mg/kg	06.20.13 14.29	U	1
Vinyl acetate	108-05-4	U	0.0044	0.00063	mg/kg	06.20.13 14.29	U	1
Vinyl chloride	75-01-4	U	0.0044	0.0017	mg/kg	06.20.13 14.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	106	%	50-150	06.20.13 14.29	
4-Bromofluorobenzene	460-00-4	100	%	57-158	06.20.13 14.29	
Toluene-D8	2037-26-5	98	%	50-150	06.20.13 14.29	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-1** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-003 Date Collected: 06.18.13 14.15

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.25.13 06.41

Seq Number: 917027

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	06.25.13 11.29	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	06.25.13 11.29	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	06.25.13 11.29	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	06.25.13 11.29	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	06.25.13 11.29	U	1
1,1-Dichloropropene	563-58-6	U	1.00	0.100	ug/L	06.25.13 11.29	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	06.25.13 11.29	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.210	ug/L	06.25.13 11.29	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	06.25.13 11.29	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	06.25.13 11.29	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	06.25.13 11.29	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	06.25.13 11.29	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.25.13 11.29	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	06.25.13 11.29	U	1
1,3,5-Trimethylbenzene	108-67-8	U	1.00	0.170	ug/L	06.25.13 11.29	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	06.25.13 11.29	U	1
1,3-Dichloropropane	142-28-9	U	1.00	0.190	ug/L	06.25.13 11.29	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	06.25.13 11.29	U	1
2,2-Dichloropropane	594-20-7	U	1.00	0.210	ug/L	06.25.13 11.29	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	06.25.13 11.29	U	1
2-Chlorotoluene	95-49-8	U	1.00	0.190	ug/L	06.25.13 11.29	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	06.25.13 11.29	U	1
4-Chlorotoluene	106-43-4	U	1.00	0.130	ug/L	06.25.13 11.29	U	1
4-Isopropyltoluene	99-87-6	U	1.00	0.130	ug/L	06.25.13 11.29	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	06.25.13 11.29	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	06.25.13 11.29	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	06.25.13 11.29	U	1
Bromobenzene	108-86-1	U	1.00	0.210	ug/L	06.25.13 11.29	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	06.25.13 11.29	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	06.25.13 11.29	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	06.25.13 11.29	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	06.25.13 11.29	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	06.25.13 11.29	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	06.25.13 11.29	U	1
Chlorodibromomethane	124-48-1	U	1.00	0.150	ug/L	06.25.13 11.29	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	06.25.13 11.29	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	06.25.13 11.29	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	06.25.13 11.29	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	06.25.13 11.29	U	1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-1** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-003 Date Collected: 06.18.13 14.15

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.25.13 06.41

Seq Number: 917027

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	06.25.13 11.29	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	06.25.13 11.29	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.25.13 11.29	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.25.13 11.29	U	1
Isopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.25.13 11.29	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	06.25.13 11.29	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.25.13 11.29	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.25.13 11.29	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	06.25.13 11.29	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.25.13 11.29	U	1
n-Butylbenzene	104-51-8	U	1.00	0.170	ug/L	06.25.13 11.29	U	1
n-Propylbenzene	103-65-1	U	1.00	0.180	ug/L	06.25.13 11.29	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.25.13 11.29	U	1
sec-Butylbenzene	135-98-8	U	1.00	0.210	ug/L	06.25.13 11.29	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	06.25.13 11.29	U	1
tert-Butylbenzene	98-06-6	U	1.00	0.180	ug/L	06.25.13 11.29	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	06.25.13 11.29	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.25.13 11.29	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	06.25.13 11.29	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	06.25.13 11.29	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	06.25.13 11.29	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	06.25.13 11.29	U	1
Vinyl acetate	108-05-4	U	1.00	0.720	ug/L	06.25.13 11.29	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	06.25.13 11.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	96	%	53-159	06.25.13 11.29	
4-Bromofluorobenzene	460-00-4	97	%	30-186	06.25.13 11.29	
Toluene-D8	2037-26-5	98	%	70-130	06.25.13 11.29	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-2** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-004 Date Collected: 06.18.13 14.40

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.22.13 08.09

Seq Number: 916874

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	06.22.13 18.26	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	06.22.13 18.26	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	06.22.13 18.26	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	06.22.13 18.26	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	06.22.13 18.26	U	1
1,1-Dichloropropene	563-58-6	U	1.00	0.100	ug/L	06.22.13 18.26	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	06.22.13 18.26	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.210	ug/L	06.22.13 18.26	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	06.22.13 18.26	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	06.22.13 18.26	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	06.22.13 18.26	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	06.22.13 18.26	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.22.13 18.26	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	06.22.13 18.26	U	1
1,3,5-Trimethylbenzene	108-67-8	U	1.00	0.170	ug/L	06.22.13 18.26	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	06.22.13 18.26	U	1
1,3-Dichloropropane	142-28-9	U	1.00	0.190	ug/L	06.22.13 18.26	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	06.22.13 18.26	U	1
2,2-Dichloropropane	594-20-7	U	1.00	0.210	ug/L	06.22.13 18.26	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	06.22.13 18.26	U	1
2-Chlorotoluene	95-49-8	U	1.00	0.190	ug/L	06.22.13 18.26	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	06.22.13 18.26	U	1
4-Chlorotoluene	106-43-4	U	1.00	0.130	ug/L	06.22.13 18.26	U	1
4-Isopropyltoluene	99-87-6	U	1.00	0.130	ug/L	06.22.13 18.26	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	06.22.13 18.26	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	06.22.13 18.26	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	06.22.13 18.26	U	1
Bromobenzene	108-86-1	U	1.00	0.210	ug/L	06.22.13 18.26	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	06.22.13 18.26	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	06.22.13 18.26	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	06.22.13 18.26	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	06.22.13 18.26	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	06.22.13 18.26	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	06.22.13 18.26	U	1
Chlorodibromomethane	124-48-1	U	1.00	0.150	ug/L	06.22.13 18.26	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	06.22.13 18.26	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	06.22.13 18.26	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	06.22.13 18.26	U	1
cis-1,2-Dichloroethene	156-59-2	**13.8**	1.00	0.210	ug/L	06.22.13 18.26		1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-2** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-004 Date Collected: 06.18.13 14.40

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.22.13 08.09

Seq Number: 916874

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	06.22.13 18.26	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	06.22.13 18.26	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.22.13 18.26	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.22.13 18.26	U	1
Isopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.22.13 18.26	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	06.22.13 18.26	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.22.13 18.26	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.22.13 18.26	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	06.22.13 18.26	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.22.13 18.26	U	1
n-Butylbenzene	104-51-8	U	1.00	0.170	ug/L	06.22.13 18.26	U	1
n-Propylbenzene	103-65-1	U	1.00	0.180	ug/L	06.22.13 18.26	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.22.13 18.26	U	1
sec-Butylbenzene	135-98-8	U	1.00	0.210	ug/L	06.22.13 18.26	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	06.22.13 18.26	U	1
tert-Butylbenzene	98-06-6	U	1.00	0.180	ug/L	06.22.13 18.26	U	1
Tetrachloroethene	127-18-4	**30.4**	1.00	0.160	ug/L	06.22.13 18.26		1
Toluene	108-88-3	**1.06**	1.00	0.140	ug/L	06.22.13 18.26		1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	06.22.13 18.26	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	06.22.13 18.26	U	1
Trichloroethene	79-01-6	**14.6**	1.00	0.190	ug/L	06.22.13 18.26		1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	06.22.13 18.26	U	1
Vinyl acetate	108-05-4	U	1.00	0.720	ug/L	06.22.13 18.26	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	06.22.13 18.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	131	%	53-159	06.22.13 18.26	
4-Bromofluorobenzene	460-00-4	94	%	30-186	06.22.13 18.26	
Toluene-D8	2037-26-5	94	%	70-130	06.22.13 18.26	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-3** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-005 Date Collected: 06.18.13 15.00

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.22.13 08.09

Seq Number: 916874

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	06.22.13 18.52	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	06.22.13 18.52	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	06.22.13 18.52	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	06.22.13 18.52	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	06.22.13 18.52	U	1
1,1-Dichloropropene	563-58-6	U	1.00	0.100	ug/L	06.22.13 18.52	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	06.22.13 18.52	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.210	ug/L	06.22.13 18.52	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	06.22.13 18.52	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	06.22.13 18.52	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	06.22.13 18.52	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	06.22.13 18.52	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.22.13 18.52	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	06.22.13 18.52	U	1
1,3,5-Trimethylbenzene	108-67-8	U	1.00	0.170	ug/L	06.22.13 18.52	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	06.22.13 18.52	U	1
1,3-Dichloropropane	142-28-9	U	1.00	0.190	ug/L	06.22.13 18.52	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	06.22.13 18.52	U	1
2,2-Dichloropropane	594-20-7	U	1.00	0.210	ug/L	06.22.13 18.52	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	06.22.13 18.52	U	1
2-Chlorotoluene	95-49-8	U	1.00	0.190	ug/L	06.22.13 18.52	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	06.22.13 18.52	U	1
4-Chlorotoluene	106-43-4	U	1.00	0.130	ug/L	06.22.13 18.52	U	1
4-Isopropyltoluene	99-87-6	U	1.00	0.130	ug/L	06.22.13 18.52	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	06.22.13 18.52	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	06.22.13 18.52	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	06.22.13 18.52	U	1
Bromobenzene	108-86-1	U	1.00	0.210	ug/L	06.22.13 18.52	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	06.22.13 18.52	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	06.22.13 18.52	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	06.22.13 18.52	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	06.22.13 18.52	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	06.22.13 18.52	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	06.22.13 18.52	U	1
Chlorodibromomethane	124-48-1	U	1.00	0.150	ug/L	06.22.13 18.52	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	06.22.13 18.52	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	06.22.13 18.52	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	06.22.13 18.52	U	1
cis-1,2-Dichloroethene	156-59-2	**3.49**	1.00	0.210	ug/L	06.22.13 18.52		1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-3** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-005 Date Collected: 06.18.13 15.00

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.22.13 08.09

Seq Number: 916874

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	06.22.13 18.52	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	06.22.13 18.52	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.22.13 18.52	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.22.13 18.52	U	1
Isopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.22.13 18.52	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	06.22.13 18.52	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.22.13 18.52	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.22.13 18.52	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	06.22.13 18.52	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.22.13 18.52	U	1
n-Butylbenzene	104-51-8	U	1.00	0.170	ug/L	06.22.13 18.52	U	1
n-Propylbenzene	103-65-1	U	1.00	0.180	ug/L	06.22.13 18.52	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.22.13 18.52	U	1
sec-Butylbenzene	135-98-8	U	1.00	0.210	ug/L	06.22.13 18.52	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	06.22.13 18.52	U	1
tert-Butylbenzene	98-06-6	U	1.00	0.180	ug/L	06.22.13 18.52	U	1
Tetrachloroethene	127-18-4	**27.5**	1.00	0.160	ug/L	06.22.13 18.52		1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.22.13 18.52	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	06.22.13 18.52	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	06.22.13 18.52	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	06.22.13 18.52	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	06.22.13 18.52	U	1
Vinyl acetate	108-05-4	U	1.00	0.720	ug/L	06.22.13 18.52	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	06.22.13 18.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	128	%	53-159	06.22.13 18.52	
4-Bromofluorobenzene	460-00-4	99	%	30-186	06.22.13 18.52	
Toluene-D8	2037-26-5	94	%	70-130	06.22.13 18.52	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-006 Date Collected: 06.18.13 15.20

Analytical Method: Select Metals by SW-846 6010C Prep Method: SW3010A

Tech: ABA % Moisture:

Analyst: 4150 Date Prep: 06.24.13 09.21

Seq Number: 916962

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	U	0.0500	0.000300	mg/L	06.25.13 13.49	U	1
Lead	7439-92-1	U	0.0100	0.00330	mg/L	06.25.13 13.49	U	1

Analytical Method: EPH by MADEP Method Prep Method: SW3520C

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.20.13 10.30

Seq Number: 917179

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Unadjusted C11-C22 Aromatics	C11C22	**120**	100	100	ug/L	06.25.13 23.43		1
Unadjusted C9-C18 Aliphatics	ALHYDRC9C18	U	100	100	ug/L	06.26.13 08.37	U	1
Unadjusted C19-C36 Aliphatics	ALHYDRC19C3	U	100	100	ug/L	06.26.13 08.37	UX	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctadecane	3386-33-2	75	%	40-140	06.26.13 08.37	
o-Terphenyl	84-15-1	80	%	40-140	06.25.13 23.43	
2-Fluorobiphenyl	321-60-8	84	%	40-140	06.25.13 23.43	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-006 Date Collected: 06.18.13 15.20

Analytical Method: SVOCs by EPA 625M + 10 TICs Prep Method: E625P

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.21.13 14.00

Seq Number: 917130

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2,4-Trichlorobenzene	120-82-1	U	10.0	1.43	ug/L	06.28.13 14.41	U	1
1,2-Dichlorobenzene	95-50-1	U	10.0	1.83	ug/L	06.28.13 14.41	U	1
1,2-Diphenylhydrazine (as Azobenzene)	122-66-7	U	50.0	4.76	ug/L	06.28.13 14.41	U	1
1,3-Dichlorobenzene	541-73-1	U	10.0	2.11	ug/L	06.28.13 14.41	U	1
1,3-Dinitrobenzene	99-65-0	U	10.0	20.1	ug/L	06.28.13 14.41	U	1
2,4,6-Trichlorophenol	88-06-2	U	10.0	1.64	ug/L	06.28.13 14.41	U	1
2,4-Dichlorophenol	120-83-2	U	10.0	1.78	ug/L	06.28.13 14.41	U	1
2,4-Dimethylphenol	105-67-9	U	10.0	1.63	ug/L	06.28.13 14.41	U	1
2,4-Dinitrophenol	51-28-5	U	50.0	7.11	ug/L	06.28.13 14.41	U	1
2,4-Dinitrotoluene	121-14-2	U	10.0	2.14	ug/L	06.28.13 14.41	U	1
2,6-Dinitrotoluene	606-20-2	U	10.0	2.72	ug/L	06.28.13 14.41	U	1
2-Chloronaphthalene	91-58-7	U	10.0	1.29	ug/L	06.28.13 14.41	U	1
2-Chlorophenol	95-57-8	U	10.0	1.83	ug/L	06.28.13 14.41	U	1
2-Methylnaphthalene	91-57-6	**1.56**	10.0	1.19	ug/L	06.28.13 14.41	J	1
2-Methylphenol	95-48-7	U	10.0	2.00	ug/L	06.28.13 14.41	U	1
2-Nitrophenol	88-75-5	U	10.0	1.95	ug/L	06.28.13 14.41	U	1
3&4-Methylphenol	15831-10-4	U	10.0	2.55	ug/L	06.28.13 14.41	U	1
3,3-Dichlorobenzidine	91-94-1	U	20.0	3.88	ug/L	06.28.13 14.41	U	1
4,6-Dinitro-2-methyl phenol	534-52-1	U	50.0	1.40	ug/L	06.28.13 14.41	U	1
4-Bromophenyl phenyl ether	101-55-3	U	10.0	2.12	ug/L	06.28.13 14.41	U	1
4-Chloro-3-methylphenol	59-50-7	U	20.0	2.18	ug/L	06.28.13 14.41	U	1
4-Chloroaniline	106-47-8	U	10.0	3.09	ug/L	06.28.13 14.41	U	1
4-Chlorophenyl phenyl ether	7005-72-3	U	10.0	1.35	ug/L	06.28.13 14.41	U	1
4-Nitrophenol	100-02-7	U	50.0	2.41	ug/L	06.28.13 14.41	U	1
Acenaphthene	83-32-9	U	10.0	1.43	ug/L	06.28.13 14.41	U	1
Acenaphthylene	208-96-8	U	10.0	1.48	ug/L	06.28.13 14.41	U	1
Anthracene	120-12-7	U	10.0	2.01	ug/L	06.28.13 14.41	U	1
Benzo(a)anthracene	56-55-3	U	10.0	1.90	ug/L	06.28.13 14.41	U	1
Benzo(a)pyrene	50-32-8	U	10.0	1.80	ug/L	06.28.13 14.41	U	1
Benzo(b)fluoranthene	205-99-2	U	10.0	1.97	ug/L	06.28.13 14.41	U	1
Benzo(g,h,i)perylene	191-24-2	U	10.0	1.97	ug/L	06.28.13 14.41	U	1
Benzo(k)fluoranthene	207-08-9	U	10.0	2.71	ug/L	06.28.13 14.41	U	1
Benzoic acid	65-85-0	U	50.0	2.21	ug/L	06.28.13 14.41	U	1
Benzyl alcohol	100-51-6	U	20.0	1.23	ug/L	06.28.13 14.41	U	1
Bis(2-chloroethoxy) methane	111-91-1	U	10.0	1.25	ug/L	06.28.13 14.41	ULF	1
Bis(2-chloroethyl) ether	111-44-4	U	10.0	1.78	ug/L	06.28.13 14.41	U	1
Bis(2-chloroisopropyl) ether	39638-32-9	U	10.0	1.24	ug/L	06.28.13 14.41	U	1
Bis(2-ethylhexyl) phthalate	117-81-7	**1.57**	10.0	1.20	ug/L	06.28.13 14.41	J	1
Butyl benzyl phthalate	85-68-7	U	10.0	1.82	ug/L	06.28.13 14.41	U	1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-006 Date Collected: 06.18.13 15.20

Analytical Method: SVOCs by EPA 625M + 10 TICs Prep Method: E625P

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.21.13 14.00

Seq Number: 917130

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chrysene	218-01-9	U	10.0	2.09	ug/L	06.28.13 14.41	U	1
Dibenz(a,h)anthracene	53-70-3	U	10.0	1.83	ug/L	06.28.13 14.41	U	1
Dibenzofuran	132-64-9	U	10.0	1.64	ug/L	06.28.13 14.41	U	1
Diethyl phthalate	84-66-2	U	10.0	1.90	ug/L	06.28.13 14.41	U	1
Dimethyl phthalate	131-11-3	U	10.0	1.97	ug/L	06.28.13 14.41	U	1
Di-n-butyl phthalate	84-74-2	U	10.0	2.08	ug/L	06.28.13 14.41	U	1
Di-n-octyl phthalate	117-84-0	U	10.0	1.38	ug/L	06.28.13 14.41	U	1
Fluoranthene	206-44-0	U	10.0	1.81	ug/L	06.28.13 14.41	U	1
Fluorene	86-73-7	U	10.0	1.56	ug/L	06.28.13 14.41	U	1
Hexachlorobenzene	118-74-1	U	10.0	2.21	ug/L	06.28.13 14.41	U	1
Hexachlorobutadiene	87-68-3	U	10.0	1.78	ug/L	06.28.13 14.41	U	1
Hexachlorocyclopentadiene	77-47-4	U	10.0	1.87	ug/L	06.28.13 14.41	UL	1
Hexachloroethane	67-72-1	U	10.0	2.38	ug/L	06.28.13 14.41	U	1
Indeno(1,2,3-c,d)pyrene	193-39-5	U	10.0	1.87	ug/L	06.28.13 14.41	U	1
Isophorone	78-59-1	U	10.0	1.41	ug/L	06.28.13 14.41	U	1
Naphthalene	91-20-3	**1.92**	10.0	1.52	ug/L	06.28.13 14.41	J	1
Nitrobenzene	98-95-3	U	10.0	1.49	ug/L	06.28.13 14.41	U	1
N-Nitrosodi-n-propylamine	621-64-7	U	10.0	1.36	ug/L	06.28.13 14.41	U	1
N-Nitrosodiphenylamine	86-30-6	U	10.0	2.50	ug/L	06.28.13 14.41	U	1
Pentachlorophenol	87-86-5	U	50.0	2.26	ug/L	06.28.13 14.41	U	1
Phenanthrene	85-01-8	U	10.0	2.04	ug/L	06.28.13 14.41	U	1
Phenol	108-95-2	U	10.0	1.76	ug/L	06.28.13 14.41	U	1
Pyrene	129-00-0	U	10.0	2.40	ug/L	06.28.13 14.41	U	1
3-Phenylbut-1-ene (TIC)	TIC	**4.27**			ug/L	06.28.13 14.41	JN	1
Diisooctyl adipate (TIC)	TIC	**8.22**			ug/L	06.28.13 14.41	JN	1
Hexadecane, 7,9-dimethyl- (TIC)	TIC	**4.84**			ug/L	06.28.13 14.41	JN	1
Octadecanoic acid (TIC)	TIC	**76.4**			ug/L	06.28.13 14.41	JN	1
Squalene (TIC)	TIC	**5.62**			ug/L	06.28.13 14.41	JN	1
n-Hexadecanoic acid (TIC)	TIC	**64.2**			ug/L	06.28.13 14.41	JN	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
2,4,6-Tribromophenol	118-79-6	85	%	32-129	06.28.13 14.41	
2-Fluorobiphenyl	321-60-8	73	%	39-99	06.28.13 14.41	
2-Fluorophenol	367-12-4	69	%	33-92	06.28.13 14.41	
Nitrobenzene-d5	4165-60-0	71	%	37-94	06.28.13 14.41	
Phenol-d5	4165-62-2	72	%	28-88	06.28.13 14.41	
Terphenyl-D14	1718-51-0	103	%	18-133	06.28.13 14.41	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4**
Lab Sample Id: 465343-006

Matrix: Ground Water
Date Collected: 06.18.13 15.20

Date Received: 06.19.13 10.00

Analytical Method: MADEP VPH REV 1.1
Tech: BAT
Analyst: MLA
Seq Number: 916782

Date Prep: 06.20.13 08.13

Prep Method: SW5030B
% Moisture:

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C5-C8 Aliphatics (Unadj.)	ALHYDRC5C8	U	15.0	15.0	ug/L	06.20.13 16.25	U	1
C9-C10 Aromatics (Unadj.)	HYDC9C10	**20.0**	5.00	5.00	ug/L	06.20.13 16.25		1
C9-C12 Aliphatics (Unadj.)	ALHYDRC9C12	**50.0**	15.0	15.0	ug/L	06.20.13 16.25	X	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
2,5-Dibromotoluene	615-59-8	113	%	70-130	06.20.13 16.25	
2,5-Dibromotoluene (PID)	615-59-8	108	%	70-130	06.20.13 16.25	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-006 Date Collected: 06.18.13 15.20

Analytical Method: VOCs by GC/MS by SM6200B Prep Method: SM6200B_PREP

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.26.13 07.23

Seq Number: 917159

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	0.500	0.0760	ug/L	06.26.13 11.39	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.500	0.0700	ug/L	06.26.13 11.39	U	1
1,1,2-Trichloroethane	79-00-5	U	0.500	0.113	ug/L	06.26.13 11.39	U	1
1,1-Dichloroethane	75-34-3	U	0.500	0.121	ug/L	06.26.13 11.39	U	1
1,1-Dichloroethene	75-35-4	U	0.500	0.104	ug/L	06.26.13 11.39	U	1
1,1-Dichloropropene	563-58-6	U	0.500	0.0600	ug/L	06.26.13 11.39	U	1
1,2,3-Trichlorobenzene	87-61-6	U	2.00	0.118	ug/L	06.26.13 11.39	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.138	ug/L	06.26.13 11.39	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.0690	ug/L	06.26.13 11.39	U	1
1,2,4-Trimethylbenzene	95-63-6	**7.54**	0.500	0.103	ug/L	06.26.13 11.39		1
1,2-Dibromoethane (EDB)		U	1.00	0.180	ug/L	06.26.13 11.39	U	1
1,2-Dichlorobenzene	95-50-1	U	0.500	0.0940	ug/L	06.26.13 11.39	U	1
1,2-Dichloroethane	107-06-2	U	0.500	0.0900	ug/L	06.26.13 11.39	U	1
1,2-Dichloropropane	78-87-5	U	0.500	0.122	ug/L	06.26.13 11.39	U	1
1,3,5-Trimethylbenzene	108-67-8	U	0.500	0.0870	ug/L	06.26.13 11.39	U	1
1,3-Dichlorobenzene	541-73-1	U	0.500	0.0980	ug/L	06.26.13 11.39	U	1
1,3-Dichloropropane	142-28-9	U	0.500	0.133	ug/L	06.26.13 11.39	U	1
1,4-Dichlorobenzene	106-46-7	U	0.500	0.0670	ug/L	06.26.13 11.39	U	1
2,2-Dichloropropane	594-20-7	U	0.200	0.0970	ug/L	06.26.13 11.39	U	1
2-Butanone (MEK)	78-93-3	U	20.0	0.378	ug/L	06.26.13 11.39	U	1
2-Chlorotoluene	95-49-8	U	0.200	0.0880	ug/L	06.26.13 11.39	U	1
2-Hexanone	591-78-6	U	0.400	0.352	ug/L	06.26.13 11.39	U	1
4-Chlorotoluene	106-43-4	U	0.500	0.0900	ug/L	06.26.13 11.39	U	1
4-Isopropyltoluene	99-87-6	U	0.500	0.0890	ug/L	06.26.13 11.39	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	0.400	0.253	ug/L	06.26.13 11.39	U	1
Acetone	67-64-1	U	2.00	0.352	ug/L	06.26.13 11.39	U	1
Benzene	71-43-2	U	0.500	0.119	ug/L	06.26.13 11.39	U	1
Bromobenzene	108-86-1	U	0.500	0.132	ug/L	06.26.13 11.39	U	1
Bromochloromethane	74-97-5	U	0.500	0.112	ug/L	06.26.13 11.39	U	1
Bromodichloromethane	75-27-4	U	0.500	0.124	ug/L	06.26.13 11.39	U	1
Bromoform	75-25-2	U	2.00	0.159	ug/L	06.26.13 11.39	U	1
Bromomethane	74-83-9	U	1.00	0.0970	ug/L	06.26.13 11.39	U	1
Carbon tetrachloride	56-23-5	U	0.500	0.0990	ug/L	06.26.13 11.39	U	1
Chlorobenzene	108-90-7	U	0.500	0.105	ug/L	06.26.13 11.39	U	1
Chlorodibromomethane	124-48-1	U	0.500	0.177	ug/L	06.26.13 11.39	U	1
Chloroethane	75-00-3	U	0.500	0.0420	ug/L	06.26.13 11.39	U	1
Chloroform	67-66-3	**1.50**	0.500	0.172	ug/L	06.26.13 11.39		1
Chloromethane	74-87-3	U	0.500	0.0850	ug/L	06.26.13 11.39	U	1
cis-1,2-Dichloroethene	156-59-2	U	0.500	0.114	ug/L	06.26.13 11.39	U	1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-006 Date Collected: 06.18.13 15.20

Analytical Method: VOCs by GC/MS by SM6200B Prep Method: SM6200B_PREP

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.26.13 07.23

Seq Number: 917159

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	06.26.13 11.39	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.0670	ug/L	06.26.13 11.39	U	1
Ethanol	64-17-5	U	50.0	3.00	ug/L	06.26.13 11.39	U	1
Ethylbenzene	100-41-4	U	0.500	0.0920	ug/L	06.26.13 11.39	U	1
Isopropyl ether	108-20-3	U	0.500	0.0920	ug/L	06.26.13 11.39	U	1
Isopropylbenzene	98-82-8	**0.220**	0.500	0.0980	ug/L	06.26.13 11.39	J	1
Methyl tert-butyl ether (MTBE)	1634-04-4	U	0.500	0.169	ug/L	06.26.13 11.39	U	1
Methylene Chloride	75-09-2	U	0.500	0.190	ug/L	06.26.13 11.39	U	1
Naphthalene	91-20-3	**8.05**	2.00	0.0940	ug/L	06.26.13 11.39		1
n-Butylbenzene	104-51-8	U	2.00	0.0600	ug/L	06.26.13 11.39	U	1
n-Propylbenzene	103-65-1	**0.610**	1.00	0.0650	ug/L	06.26.13 11.39	J	1
sec-Butylbenzene	135-98-8	U	0.500	0.0920	ug/L	06.26.13 11.39	U	1
Styrene	100-42-5	U	0.500	0.0740	ug/L	06.26.13 11.39	U	1
tert-Butylbenzene	98-06-6	U	0.500	0.0890	ug/L	06.26.13 11.39	U	1
Tetrachloroethene (PCE)	127-18-4	**0.980**	0.500	0.0540	ug/L	06.26.13 11.39		1
Toluene	108-88-3	U	0.500	0.0570	ug/L	06.26.13 11.39	U	1
trans-1,2-Dichloroethene	156-60-5	U	0.500	0.188	ug/L	06.26.13 11.39	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	06.26.13 11.39	U	1
Trichloroethene	79-01-6	U	0.500	0.139	ug/L	06.26.13 11.39	U	1
Trichlorofluoromethane	75-69-4	U	0.500	0.0540	ug/L	06.26.13 11.39	U	1
Vinyl Acetate	108-05-4	U	1.00	0.720	ug/L	06.26.13 11.39	U	1
Vinyl Chloride	75-01-4	U	0.500	0.0810	ug/L	06.26.13 11.39	U	1
m,p-Xylenes	179601-23-1	**1.54**	1.00	0.176	ug/L	06.26.13 11.39		1
o-Xylene	95-47-6	**1.51**	0.500	0.122	ug/L	06.26.13 11.39		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	112	%	53-159	06.26.13 11.39	
4-Bromofluorobenzene	460-00-4	100	%	30-186	06.26.13 11.39	
Toluene-D8	2037-26-5	96	%	70-130	06.26.13 11.39	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **Trip Blank** Matrix: Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-007 Date Collected: 06.18.13 00.00

Analytical Method: VOCs by GC/MS by SM6200B Prep Method: SM6200B_PREP

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.26.13 07.23

Seq Number: 917159

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	0.500	0.0760	ug/L	06.26.13 11.06	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.500	0.0700	ug/L	06.26.13 11.06	U	1
1,1,2-Trichloroethane	79-00-5	U	0.500	0.113	ug/L	06.26.13 11.06	U	1
1,1-Dichloroethane	75-34-3	U	0.500	0.121	ug/L	06.26.13 11.06	U	1
1,1-Dichloroethene	75-35-4	U	0.500	0.104	ug/L	06.26.13 11.06	U	1
1,1-Dichloropropene	563-58-6	U	0.500	0.0600	ug/L	06.26.13 11.06	U	1
1,2,3-Trichlorobenzene	87-61-6	U	2.00	0.118	ug/L	06.26.13 11.06	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.138	ug/L	06.26.13 11.06	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.0690	ug/L	06.26.13 11.06	U	1
1,2,4-Trimethylbenzene	95-63-6	U	0.500	0.103	ug/L	06.26.13 11.06	U	1
1,2-Dibromoethane (EDB)		U	1.00	0.180	ug/L	06.26.13 11.06	U	1
1,2-Dichlorobenzene	95-50-1	U	0.500	0.0940	ug/L	06.26.13 11.06	U	1
1,2-Dichloroethane	107-06-2	U	0.500	0.0900	ug/L	06.26.13 11.06	U	1
1,2-Dichloropropane	78-87-5	U	0.500	0.122	ug/L	06.26.13 11.06	U	1
1,3,5-Trimethylbenzene	108-67-8	U	0.500	0.0870	ug/L	06.26.13 11.06	U	1
1,3-Dichlorobenzene	541-73-1	U	0.500	0.0980	ug/L	06.26.13 11.06	U	1
1,3-Dichloropropane	142-28-9	U	0.500	0.133	ug/L	06.26.13 11.06	U	1
1,4-Dichlorobenzene	106-46-7	U	0.500	0.0670	ug/L	06.26.13 11.06	U	1
2,2-Dichloropropane	594-20-7	U	0.200	0.0970	ug/L	06.26.13 11.06	U	1
2-Butanone (MEK)	78-93-3	U	20.0	0.378	ug/L	06.26.13 11.06	U	1
2-Chlorotoluene	95-49-8	U	0.200	0.0880	ug/L	06.26.13 11.06	U	1
2-Hexanone	591-78-6	U	0.400	0.352	ug/L	06.26.13 11.06	U	1
4-Chlorotoluene	106-43-4	U	0.500	0.0900	ug/L	06.26.13 11.06	U	1
4-Isopropyltoluene	99-87-6	U	0.500	0.0890	ug/L	06.26.13 11.06	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	0.400	0.253	ug/L	06.26.13 11.06	U	1
Acetone	67-64-1	U	2.00	0.352	ug/L	06.26.13 11.06	U	1
Benzene	71-43-2	U	0.500	0.119	ug/L	06.26.13 11.06	U	1
Bromobenzene	108-86-1	U	0.500	0.132	ug/L	06.26.13 11.06	U	1
Bromochloromethane	74-97-5	U	0.500	0.112	ug/L	06.26.13 11.06	U	1
Bromodichloromethane	75-27-4	U	0.500	0.124	ug/L	06.26.13 11.06	U	1
Bromoform	75-25-2	U	2.00	0.159	ug/L	06.26.13 11.06	U	1
Bromomethane	74-83-9	U	1.00	0.0970	ug/L	06.26.13 11.06	U	1
Carbon tetrachloride	56-23-5	U	0.500	0.0990	ug/L	06.26.13 11.06	U	1
Chlorobenzene	108-90-7	U	0.500	0.105	ug/L	06.26.13 11.06	U	1
Chlorodibromomethane	124-48-1	U	0.500	0.177	ug/L	06.26.13 11.06	U	1
Chloroethane	75-00-3	U	0.500	0.0420	ug/L	06.26.13 11.06	U	1
Chloroform	67-66-3	U	0.500	0.172	ug/L	06.26.13 11.06	U	1
Chloromethane	74-87-3	U	0.500	0.0850	ug/L	06.26.13 11.06	U	1
cis-1,2-Dichloroethene	156-59-2	U	0.500	0.114	ug/L	06.26.13 11.06	U	1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **Trip Blank** Matrix: Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-007 Date Collected: 06.18.13 00.00

Analytical Method: VOCs by GC/MS by SM6200B Prep Method: SM6200B_PREP

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.26.13 07.23

Seq Number: 917159

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	06.26.13 11.06	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.0670	ug/L	06.26.13 11.06	U	1
Ethanol	64-17-5	U	50.0	3.00	ug/L	06.26.13 11.06	U	1
Ethylbenzene	100-41-4	U	0.500	0.0920	ug/L	06.26.13 11.06	U	1
Isopropyl ether	108-20-3	U	0.500	0.0920	ug/L	06.26.13 11.06	U	1
Isopropylbenzene	98-82-8	U	0.500	0.0980	ug/L	06.26.13 11.06	U	1
Methyl tert-butyl ether (MTBE)	1634-04-4	U	0.500	0.169	ug/L	06.26.13 11.06	U	1
Methylene Chloride	75-09-2	U	0.500	0.190	ug/L	06.26.13 11.06	U	1
Naphthalene	91-20-3	U	2.00	0.0940	ug/L	06.26.13 11.06	U	1
n-Butylbenzene	104-51-8	U	2.00	0.0600	ug/L	06.26.13 11.06	U	1
n-Propylbenzene	103-65-1	U	1.00	0.0650	ug/L	06.26.13 11.06	U	1
sec-Butylbenzene	135-98-8	U	0.500	0.0920	ug/L	06.26.13 11.06	U	1
Styrene	100-42-5	U	0.500	0.0740	ug/L	06.26.13 11.06	U	1
tert-Butylbenzene	98-06-6	U	0.500	0.0890	ug/L	06.26.13 11.06	U	1
Tetrachloroethene (PCE)	127-18-4	U	0.500	0.0540	ug/L	06.26.13 11.06	U	1
Toluene	108-88-3	U	0.500	0.0570	ug/L	06.26.13 11.06	U	1
trans-1,2-Dichloroethene	156-60-5	U	0.500	0.188	ug/L	06.26.13 11.06	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	06.26.13 11.06	U	1
Trichloroethene	79-01-6	U	0.500	0.139	ug/L	06.26.13 11.06	U	1
Trichlorofluoromethane	75-69-4	U	0.500	0.0540	ug/L	06.26.13 11.06	U	1
Vinyl Acetate	108-05-4	U	1.00	0.720	ug/L	06.26.13 11.06	U	1
Vinyl Chloride	75-01-4	U	0.500	0.0810	ug/L	06.26.13 11.06	U	1
m,p-Xylenes	179601-23-1	U	1.00	0.176	ug/L	06.26.13 11.06	U	1
o-Xylene	95-47-6	U	0.500	0.122	ug/L	06.26.13 11.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	112	%	53-159	06.26.13 11.06	
4-Bromofluorobenzene	460-00-4	101	%	30-186	06.26.13 11.06	
Toluene-D8	2037-26-5	91	%	70-130	06.26.13 11.06	

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **Select Metals by SW-846 6010C** Prep Method: SW3050B
Seq Number: 916732 Matrix: Solid Date Prep: 06.20.13
MB Sample Id: 639971-1-BLK LCS Sample Id: 639971-1-BKS LCSD Sample Id: 639971-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chromium	<0.0600	100	98.5	99	97.5	98	80-120	1	20	mg/kg	06.20.13 16:38	
Lead	<0.279	100	98.6	99	98.2	98	80-120	0	20	mg/kg	06.20.13 16:38	

Analytical Method: **Select Metals by SW-846 6010C** Prep Method: SW3010A
Seq Number: 916962 Matrix: Water Date Prep: 06.24.13
MB Sample Id: 640082-1-BLK LCS Sample Id: 640082-1-BKS LCSD Sample Id: 640082-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chromium	0.000700	1.00	0.982	98	0.984	98	80-120	0	20	mg/L	06.25.13 12:59	
Lead	<0.00330	1.00	0.980	98	0.982	98	80-120	0	20	mg/L	06.25.13 12:59	

Analytical Method: **Select Metals by SW-846 6010C** Prep Method: SW3050B
Seq Number: 916732 Matrix: Soil Date Prep: 06.20.13
Parent Sample Id: 465297-001 MD Sample Id: 465297-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Chromium	5.75	8.10	34	20	mg/kg	06.20.13 16:49	F
Lead	28.9	30.8	6	20	mg/kg	06.20.13 16:49	

Analytical Method: **Select Metals by SW-846 6010C** Prep Method: SW3010A
Seq Number: 916962 Matrix: Surface Water Date Prep: 06.24.13
Parent Sample Id: 465405-001 MD Sample Id: 465405-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Chromium	<0.000300	<0.000300	0	20	mg/L	06.25.13 13:09	U
Lead	<0.00330	<0.00330	0	20	mg/L	06.25.13 13:09	U

Analytical Method: **Select Metals by SW-846 6010C** Prep Method: SW3050B
Seq Number: 916732 Matrix: Soil Date Prep: 06.20.13
Parent Sample Id: 465297-001 MS Sample Id: 465297-001 S MSD Sample Id: 465297-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chromium	5.75	109	110	96	120	99	80-120	9	20	mg/kg	06.20.13 16:51	
Lead	28.9	109	124	87	139	96	80-120	11	20	mg/kg	06.20.13 16:51	

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **Select Metals by SW-846 6010C** Prep Method: SW3010A
Seq Number: 916962 Matrix: Surface Water Date Prep: 06.24.13
Parent Sample Id: 465405-001 MS Sample Id: 465405-001 S MSD Sample Id: 465405-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chromium	<0.000300	1.00	0.976	98	0.963	96	80-120	1	20	mg/L	06.25.13 13:11	
Lead	<0.00330	1.00	0.960	96	0.948	95	80-120	1	20	mg/L	06.25.13 13:11	

Analytical Method: **Percent Moisture**
Seq Number: 916837 Matrix: Soil
Parent Sample Id: 465362-001 MD Sample Id: 465362-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	18.9	19.0	1	20	%	06.21.13 16:45	

Analytical Method: **EPH by MADEP Method** Prep Method: SW3520C
Seq Number: 917179 Matrix: Water Date Prep: 06.20.13
MB Sample Id: 640202-1-BLK LCS Sample Id: 640202-1-BKS LCSD Sample Id: 640202-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Unadjusted C11-C22 Aromatics	<100	850	637	75	622	73	40-140	2	40	ug/L	06.25.13 21:35	
Unadjusted C9-C18 Aliphatics	<100	300	231	77	222	74	40-140	4	40	ug/L	06.26.13 06:40	
Unadjusted C19-C36 Aliphatics	<100	400	427	107	415	104	40-140	3	40	ug/L	06.26.13 06:40	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctadecane	52		86		72		40-140	%	06.26.13 06:40
o-Terphenyl	68		78		75		40-140	%	06.25.13 21:35
2-Fluorobiphenyl	78		81		86		40-140	%	06.25.13 21:35

Analytical Method: **EPH by MADEP Method** Prep Method: SW3550
Seq Number: 917187 Matrix: Solid Date Prep: 06.20.13
MB Sample Id: 639999-1-BLK LCS Sample Id: 639999-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Unadjusted C11-C22 Aromatics	<6.67	28.3	19.1	67	40-140	mg/kg	06.26.13 01:08	
Unadjusted C9-C18 Aliphatics	<3.33	10.0	11.7	117	40-140	mg/kg	06.26.13 09:54	
Unadjusted C19-C36 Aliphatics	<3.33	13.3	14.6	110	40-140	mg/kg	06.26.13 09:54	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	Limits	Units	Analysis Date
1-Chlorooctadecane	61		84		40-140	%	06.26.13 09:54
o-Terphenyl	77		87		40-140	%	06.26.13 01:08
2-Fluorobiphenyl	86		64		40-140	%	06.26.13 01:08

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **EPH by MADEP Method** Prep Method: SW3550

Seq Number: 917187 Matrix: Soil Date Prep: 06.20.13

Parent Sample Id: 465343-001 MS Sample Id: 465343-001 S MSD Sample Id: 465343-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Unadjusted C11-C22 Aromatics	<20.0	84.9	56.4	66	61.5	73	40-140	9	40	mg/kg	06.26.13 01:51	
Unadjusted C9-C18 Aliphatics	<9.99	30.0	32.9	110	29.6	99	40-140	11	40	mg/kg	06.26.13 10:33	
Unadjusted C19-C36 Aliphatics	<9.99	40.0	61.2	153	50.7	127	40-140	19	40	mg/kg	06.26.13 10:33	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctadecane	76		72		40-140	%	06.26.13 10:33
o-Terphenyl	75		68		40-140	%	06.26.13 01:51
2-Fluorobiphenyl	79		77		40-140	%	06.26.13 01:51

Analytical Method: **EPH by MADEP Method** Prep Method: SW3520C

Seq Number: 917179 Matrix: Ground Water Date Prep: 06.20.13

Parent Sample Id: 465343-006 MS Sample Id: 465343-006 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Unadjusted C11-C22 Aromatics	120	850	709	69	40-140	ug/L	06.25.13 23:00	
Unadjusted C9-C18 Aliphatics	<100	300	220	73	40-140	ug/L	06.26.13 07:58	
Unadjusted C19-C36 Aliphatics	<100	400	563	141	40-140	ug/L	06.26.13 07:58	X

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
1-Chlorooctadecane	87		40-140	%	06.26.13 07:58
o-Terphenyl	87		40-140	%	06.25.13 23:00
2-Fluorobiphenyl	92		40-140	%	06.25.13 23:00

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **SVOCs by EPA 625M + 10 TICs** Prep Method: SW3520C
Seq Number: 917130 Matrix: Water Date Prep: 06.21.13
MB Sample Id: 640195-1-BLK LCS Sample Id: 640195-1-BKS LCSD Sample Id: 640195-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<1.43	50.0	35.9	72	37.1	74	44-142	3	30	ug/L	06.25.13 12:13	
1,2-Dichlorobenzene	<1.83	50.0	37.7	75	38.1	76	32-129	1	30	ug/L	06.25.13 12:13	
1,3-Dichlorobenzene	<2.11	50.0	35.8	72	35.6	71	10-172	1	30	ug/L	06.25.13 12:13	
1,3-Dinitrobenzene	<20.1	50.0	46.4	93	48.9	98	70-130	5	30	ug/L	06.25.13 12:13	
2,4,6-Trichlorophenol	<1.64	50.0	26.7	53	25.0	50	37-144	7	30	ug/L	06.25.13 12:13	
2,4-Dichlorophenol	<1.78	50.0	30.8	62	25.5	51	39-135	19	30	ug/L	06.25.13 12:13	
2,4-Dimethylphenol	<1.63	50.0	39.4	79	40.0	80	32-119	2	30	ug/L	06.25.13 12:13	
2,4-Dinitrophenol	<7.11	50.0	13.8	28	14.2	28	10-191	3	30	ug/L	06.25.13 12:13	
2,4-Dinitrotoluene	<2.14	50.0	46.0	92	50.1	100	39-139	9	30	ug/L	06.25.13 12:13	
2,6-Dinitrotoluene	<2.72	50.0	45.4	91	48.0	96	50-158	6	30	ug/L	06.25.13 12:13	
2-Chloronaphthalene	<1.29	50.0	41.5	83	45.6	91	60-118	9	30	ug/L	06.25.13 12:13	
2-Chlorophenol	<1.83	50.0	29.7	59	23.5	47	23-134	23	30	ug/L	06.25.13 12:13	
2-Methylnaphthalene	<1.19	50.0	36.3	73	39.2	78	45-105	8	30	ug/L	06.25.13 12:13	
2-Methylphenol	<2.00	50.0	37.5	75	32.6	65	40-110	14	30	ug/L	06.25.13 12:13	
2-Nitrophenol	<1.95	50.0	28.6	57	23.3	47	29-182	20	30	ug/L	06.25.13 12:13	
3&4-Methylphenol	<2.55	100	73.6	74	64.2	64	30-110	14	30	ug/L	06.25.13 12:13	
4,6-Dinitro-2-methyl phenol	<1.40	50.0	17.9	36	17.0	34	10-181	5	30	ug/L	06.25.13 12:13	
4-Bromophenyl phenyl ether	<2.12	50.0	44.3	89	46.2	92	53-127	4	30	ug/L	06.25.13 12:13	
4-Chloro-3-methylphenol	<2.18	50.0	40.0	80	34.9	70	22-147	14	30	ug/L	06.25.13 12:13	
4-Chloroaniline	<3.09	50.0	21.3	43	4.76	10	15-110	127	30	ug/L	06.25.13 12:13	LF
4-Chlorophenyl phenyl ether	<1.35	50.0	42.3	85	46.0	92	25-158	8	30	ug/L	06.25.13 12:13	
4-Nitrophenol	<2.41	50.0	14.1	28	16.1	32	10-132	13	30	ug/L	06.25.13 12:13	
Acenaphthene	<1.43	50.0	42.0	84	46.2	92	47-145	10	30	ug/L	06.25.13 12:13	
Acenaphthylene	<1.48	50.0	42.5	85	38.0	76	33-145	11	30	ug/L	06.25.13 12:13	
Anthracene	<2.01	50.0	43.2	86	44.3	89	27-133	3	30	ug/L	06.25.13 12:13	
Benzo(a)anthracene	<1.90	50.0	46.7	93	49.5	99	33-143	6	30	ug/L	06.25.13 12:13	
Benzo(a)pyrene	<1.80	50.0	37.9	76	38.7	77	17-163	2	30	ug/L	06.25.13 12:13	
Benzo(b)fluoranthene	<1.97	50.0	45.7	91	48.0	96	24-159	5	30	ug/L	06.25.13 12:13	
Benzo(g,h,i)perylene	<1.97	50.0	47.0	94	48.5	97	10-219	3	30	ug/L	06.25.13 12:13	
Benzo(k)fluoranthene	<2.71	50.0	42.7	85	46.2	92	11-162	8	30	ug/L	06.25.13 12:13	
Benzoic acid	<2.21	50.0	13.3	27	16.6	33	1-125	22	30	ug/L	06.25.13 12:13	
Benzyl alcohol	<1.23	50.0	38.3	77	36.7	73	30-110	4	30	ug/L	06.25.13 12:13	
Bis(2-chloroethoxy) methane	<1.25	50.0	37.9	76	16.0	32	33-184	81	30	ug/L	06.25.13 12:13	LF
Bis(2-chloroethyl) ether	<1.78	50.0	40.6	81	42.0	84	12-158	3	30	ug/L	06.25.13 12:13	
Bis(2-chloroisopropyl) ether	<1.24	50.0	50.6	101	52.2	104	36-166	3	30	ug/L	06.25.13 12:13	
Bis(2-ethylhexyl) phthalate	<1.20	50.0	56.5	113	56.6	113	8-158	0	30	ug/L	06.25.13 12:13	
Butyl benzyl phthalate	<1.82	50.0	51.9	104	48.3	97	10-152	7	30	ug/L	06.25.13 12:13	
Chrysene	<2.09	50.0	46.2	92	48.1	96	17-168	4	30	ug/L	06.25.13 12:13	
Dibenz(a,h)anthracene	<1.83	50.0	43.0	86	46.7	93	10-227	8	30	ug/L	06.25.13 12:13	
Dibenzofuran	<1.64	50.0	40.3	81	43.5	87	55-105	8	30	ug/L	06.25.13 12:13	
Diethyl phthalate	<1.90	50.0	46.4	93	48.4	97	10-114	4	30	ug/L	06.25.13 12:13	
Dimethyl phthalate	<1.97	50.0	44.9	90	46.7	93	10-112	4	30	ug/L	06.25.13 12:13	
Di-n-butyl phthalate	<2.08	50.0	46.5	93	48.4	97	1-118	4	30	ug/L	06.25.13 12:13	
Di-n-octyl phthalate	<1.38	50.0	50.9	102	52.5	105	4-146	3	30	ug/L	06.25.13 12:13	
Fluoranthene	<1.81	50.0	46.3	93	48.4	97	26-137	4	30	ug/L	06.25.13 12:13	
Fluorene	<1.56	50.0	44.5	89	47.7	95	59-121	7	30	ug/L	06.25.13 12:13	
Hexachlorobenzene	<2.21	50.0	45.1	90	47.3	95	10-152	5	30	ug/L	06.25.13 12:13	
Hexachlorobutadiene	<1.78	50.0	30.5	61	31.0	62	24-116	2	30	ug/L	06.25.13 12:13	
Hexachlorocyclopentadiene	<1.87	50.0	9.69	19	9.47	19	70-130	2	30	ug/L	06.25.13 12:13	L
Hexachloroethane	<2.38	50.0	34.8	70	32.7	65	40-113	6	30	ug/L	06.25.13 12:13	
Indeno(1,2,3-c,d)pyrene	<1.87	50.0	42.1	84	44.7	89	10-171	6	30	ug/L	06.25.13 12:13	
Isophorone	<1.41	50.0	42.5	85	45.9	92	21-196	8	30	ug/L	06.25.13 12:13	

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **SVOCs by EPA 625M + 10 TICs** Prep Method: SW3520C
Seq Number: 917130 Matrix: Water Date Prep: 06.21.13
MB Sample Id: 640195-1-BLK LCS Sample Id: 640195-1-BKS LCSD Sample Id: 640195-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Naphthalene	<1.52	50.0	39.4	79	41.8	84	21-133	6	30	ug/L	06.25.13 12:13	
Nitrobenzene	<1.49	50.0	41.1	82	42.7	85	35-180	4	30	ug/L	06.25.13 12:13	
N-Nitrosodi-n-propylamine	<1.36	50.0	43.4	87	47.1	94	10-230	8	30	ug/L	06.25.13 12:13	
N-Nitrosodiphenylamine	<2.50	50.0	31.3	63	18.1	36	50-110	53	30	ug/L	06.25.13 12:13	LF
Pentachlorophenol	<2.26	50.0	23.0	46	21.9	44	14-176	5	30	ug/L	06.25.13 12:13	
Phenanthrene	<2.04	50.0	45.7	91	47.3	95	54-120	3	30	ug/L	06.25.13 12:13	
Phenol	<1.76	50.0	29.1	58	23.1	46	5-112	23	30	ug/L	06.25.13 12:13	
Pyrene	<2.40	50.0	46.0	92	47.0	94	52-115	2	30	ug/L	06.25.13 12:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
2,4,6-Tribromophenol	79		64		60		32-129	%	06.25.13 12:13
2-Fluorobiphenyl	76		79		89		39-99	%	06.25.13 12:13
2-Fluorophenol	70		57		49		33-92	%	06.25.13 12:13
Nitrobenzene-d5	72		75		81		37-94	%	06.25.13 12:13
Phenol-d5	69		69		60		28-88	%	06.25.13 12:13
Terphenyl-D14	102		98		104		18-133	%	06.25.13 12:13

Analytical Method: **SVOCs by EPA 625M + 10 TICs** Prep Method: SW3520C
Seq Number: 917130 Matrix: Water Date Prep: 06.21.13
MB Sample Id: 640195-1-BLK LCS Sample Id: 640195-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
3,3-Dichlorobenzidine	<3.88	50.0	13.6	27	10-262	ug/L	06.25.13 12:13	

Analytical Method: **SVOCs by EPA 625M + 10 TICs** Prep Method: SW3520C
Seq Number: 917130 Matrix: Water Date Prep: 06.21.13
MB Sample Id: 640195-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
1,2-Diphenylhydrazine (as Azobenzene)	U	ug/L	06.25.13 11:44	

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **SVOCs by EPA 625M + 10 TICs** Prep Method: SW3520C
Seq Number: 917130 Matrix: Ground Water Date Prep: 06.21.13
Parent Sample Id: 465284-006 MS Sample Id: 465284-006 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<1.43	50.0	22.1	44	44-142	ug/L	06.25.13 13:10	
1,2-Dichlorobenzene	<1.83	50.0	22.4	45	32-129	ug/L	06.25.13 13:10	
1,3-Dichlorobenzene	<2.11	50.0	21.4	43	10-172	ug/L	06.25.13 13:10	
1,3-Dinitrobenzene	<20.1	50.0	35.3	71	70-130	ug/L	06.25.13 13:10	
2,4,6-Trichlorophenol	<1.64	50.0	29.9	60	37-144	ug/L	06.25.13 13:10	
2,4-Dichlorophenol	<1.78	50.0	24.9	50	39-135	ug/L	06.25.13 13:10	
2,4-Dimethylphenol	<1.63	50.0	25.9	52	32-119	ug/L	06.25.13 13:10	
2,4-Dinitrophenol	<7.11	50.0	21.1	42	10-191	ug/L	06.25.13 13:10	
2,4-Dinitrotoluene	<2.14	50.0	35.7	71	39-139	ug/L	06.25.13 13:10	
2,6-Dinitrotoluene	<2.72	50.0	33.2	66	50-158	ug/L	06.25.13 13:10	
2-Chloronaphthalene	<1.29	50.0	29.1	58	60-118	ug/L	06.25.13 13:10	X
2-Chlorophenol	<1.83	50.0	22.2	44	23-134	ug/L	06.25.13 13:10	
2-Methylnaphthalene	<1.19	50.0	23.4	47	45-105	ug/L	06.25.13 13:10	
2-Methylphenol	<2.00	50.0	22.7	45	40-110	ug/L	06.25.13 13:10	
2-Nitrophenol	<1.95	50.0	23.6	47	29-182	ug/L	06.25.13 13:10	
3&4-Methylphenol	<2.55	100	46.1	46	30-110	ug/L	06.25.13 13:10	
3,3-Dichlorobenzidine	<3.88	50.0	9.23	18	10-262	ug/L	06.25.13 13:10	
4,6-Dinitro-2-methyl phenol	<1.40	50.0	24.4	49	10-181	ug/L	06.25.13 13:10	
4-Bromophenyl phenyl ether	<2.12	50.0	32.2	64	53-127	ug/L	06.25.13 13:10	
4-Chloro-3-methylphenol	<2.18	50.0	30.7	61	22-147	ug/L	06.25.13 13:10	
4-Chloroaniline	<3.09	50.0	7.96	16	15-110	ug/L	06.25.13 13:10	
4-Chlorophenyl phenyl ether	<1.35	50.0	31.6	63	25-158	ug/L	06.25.13 13:10	
4-Nitrophenol	<2.41	50.0	14.3	29	10-132	ug/L	06.25.13 13:10	
Acenaphthene	<1.43	50.0	30.9	62	47-145	ug/L	06.25.13 13:10	
Acenaphthylene	<1.48	50.0	32.6	65	33-145	ug/L	06.25.13 13:10	
Anthracene	<2.01	50.0	32.5	65	27-133	ug/L	06.25.13 13:10	
Benzo(a)anthracene	<1.90	50.0	34.6	69	33-143	ug/L	06.25.13 13:10	
Benzo(a)pyrene	<1.80	50.0	24.0	48	17-163	ug/L	06.25.13 13:10	
Benzo(b)fluoranthene	<1.97	50.0	32.1	64	24-159	ug/L	06.25.13 13:10	
Benzo(g,h,i)perylene	<1.97	50.0	31.9	64	10-219	ug/L	06.25.13 13:10	
Benzo(k)fluoranthene	<2.71	50.0	30.4	61	11-162	ug/L	06.25.13 13:10	
Benzoic acid	<2.21	50.0	17.0	34	1-125	ug/L	06.25.13 13:10	
Benzyl alcohol	<1.23	50.0	20.2	40	30-110	ug/L	06.25.13 13:10	
Bis(2-chloroethoxy) methane	<1.25	50.0	26.2	52	33-184	ug/L	06.25.13 13:10	
Bis(2-chloroethyl) ether	<1.78	50.0	24.6	49	12-158	ug/L	06.25.13 13:10	
Bis(2-chloroisopropyl) ether	<1.24	50.0	30.7	61	36-166	ug/L	06.25.13 13:10	
Bis(2-ethylhexyl) phthalate	3.82	50.0	37.2	67	8-158	ug/L	06.25.13 13:10	
Butyl benzyl phthalate	<1.82	50.0	38.0	76	10-152	ug/L	06.25.13 13:10	
Chrysene	<2.09	50.0	33.4	67	17-168	ug/L	06.25.13 13:10	
Dibenz(a,h)anthracene	<1.83	50.0	30.6	61	10-227	ug/L	06.25.13 13:10	
Dibenzofuran	<1.64	50.0	30.3	61	55-105	ug/L	06.25.13 13:10	
Diethyl phthalate	<1.90	50.0	35.8	72	10-114	ug/L	06.25.13 13:10	
Dimethyl phthalate	<1.97	50.0	34.2	68	10-112	ug/L	06.25.13 13:10	
Di-n-butyl phthalate	<2.08	50.0	34.0	68	1-118	ug/L	06.25.13 13:10	
Di-n-octyl phthalate	<1.38	50.0	34.3	69	4-146	ug/L	06.25.13 13:10	
Fluoranthene	<1.81	50.0	33.9	68	26-137	ug/L	06.25.13 13:10	
Fluorene	<1.56	50.0	33.5	67	59-121	ug/L	06.25.13 13:10	
Hexachlorobenzene	<2.21	50.0	32.7	65	10-152	ug/L	06.25.13 13:10	
Hexachlorobutadiene	<1.78	50.0	17.7	35	24-116	ug/L	06.25.13 13:10	
Hexachlorocyclopentadiene	<1.87	50.0	11.3	23	70-130	ug/L	06.25.13 13:10	X
Hexachloroethane	<2.38	50.0	20.0	40	40-113	ug/L	06.25.13 13:10	
Indeno(1,2,3-c,d)pyrene	<1.87	50.0	29.2	58	10-171	ug/L	06.25.13 13:10	

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **SVOCs by EPA 625M + 10 TICs** Prep Method: SW3520C

Seq Number: 917130 Matrix: Ground Water Date Prep: 06.21.13

Parent Sample Id: 465284-006 MS Sample Id: 465284-006 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Isophorone	<1.41	50.0	28.7	57	21-196	ug/L	06.25.13 13:10	
Naphthalene	<1.52	50.0	24.6	49	21-133	ug/L	06.25.13 13:10	
Nitrobenzene	<1.49	50.0	25.6	51	35-180	ug/L	06.25.13 13:10	
N-Nitrosodi-n-propylamine	<1.36	50.0	29.8	60	10-230	ug/L	06.25.13 13:10	
N-Nitrosodiphenylamine	<2.50	50.0	28.2	56	50-110	ug/L	06.25.13 13:10	
Pentachlorophenol	<2.26	50.0	27.4	55	14-176	ug/L	06.25.13 13:10	
Phenanthrene	<2.04	50.0	33.2	66	54-120	ug/L	06.25.13 13:10	
Phenol	<1.76	50.0	15.5	31	5-112	ug/L	06.25.13 13:10	
Pyrene	<2.40	50.0	34.2	68	52-115	ug/L	06.25.13 13:10	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
2,4,6-Tribromophenol	78		32-129	%	06.25.13 13:10
2-Fluorobiphenyl	68		39-99	%	06.25.13 13:10
2-Fluorophenol	55		33-92	%	06.25.13 13:10
Nitrobenzene-d5	58		37-94	%	06.25.13 13:10
Phenol-d5	57		28-88	%	06.25.13 13:10
Terphenyl-D14	86		18-133	%	06.25.13 13:10

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **SVOCs by SW-846 8270D** Prep Method: SW3550

Seq Number: 916744 Matrix: Solid Date Prep: 06.20.13

MB Sample Id: 639993-1-BLK LCS Sample Id: 639993-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<0.0590	1.67	1.45	87	52-104	mg/kg	06.20.13 18:23	
1,2-Dichlorobenzene	<0.0540	1.67	1.39	83	49-103	mg/kg	06.20.13 18:23	
1,2-Diphenylhydrazine	<0.0367	1.67	1.40	84	43-133	mg/kg	06.20.13 18:23	
1,3-Dichlorobenzene	<0.0527	1.67	1.41	84	48-101	mg/kg	06.20.13 18:23	
1,4-Dichlorobenzene	<0.0520	1.67	1.38	83	46-99	mg/kg	06.20.13 18:23	
2,4,6-Trichlorophenol	<0.0643	1.67	1.44	86	47-118	mg/kg	06.20.13 18:23	
2,4-Dichlorophenol	<0.0423	1.67	1.35	81	51-109	mg/kg	06.20.13 18:23	
2,4-Dimethylphenol	<0.0607	1.67	1.38	83	46-106	mg/kg	06.20.13 18:23	
2,4-Dinitrophenol	<0.0537	1.67	1.08	65	15-130	mg/kg	06.20.13 18:23	
2,4-Dinitrotoluene	<0.0537	1.67	1.48	89	53-125	mg/kg	06.20.13 18:23	
2,6-Dinitrotoluene	<0.0433	1.67	1.43	86	48-128	mg/kg	06.20.13 18:23	
2-Chloronaphthalene	<0.0607	1.67	1.44	86	54-109	mg/kg	06.20.13 18:23	
2-Chlorophenol	<0.0597	1.67	1.36	81	47-105	mg/kg	06.20.13 18:23	
2-Methylnaphthalene	<0.0510	1.67	1.29	77	45-102	mg/kg	06.20.13 18:23	
2-methylphenol	<0.0467	1.67	1.29	77	48-106	mg/kg	06.20.13 18:23	
2-Nitrophenol	<0.0420	1.67	1.35	81	38-118	mg/kg	06.20.13 18:23	
3&4-Methylphenol	<0.0987	3.33	2.67	80	40-105	mg/kg	06.20.13 18:23	
3,3-Dichlorobenzidine	<0.0487	1.67	1.19	71	14-139	mg/kg	06.20.13 18:23	
4,6-dinitro-2-methyl phenol	<0.0580	1.67	1.24	74	14-141	mg/kg	06.20.13 18:23	
4-Bromophenyl-phenylether	<0.0567	1.67	1.58	95	54-119	mg/kg	06.20.13 18:23	
4-chloro-3-methylphenol	<0.0477	1.67	1.37	82	45-115	mg/kg	06.20.13 18:23	
4-Chloroaniline	<0.0553	1.67	1.00	60	16-139	mg/kg	06.20.13 18:23	
4-Chlorophenyl Phenyl Ether	<0.0633	1.67	1.50	90	56-113	mg/kg	06.20.13 18:23	
4-Nitrophenol	<0.0410	1.67	1.09	65	35-122	mg/kg	06.20.13 18:23	
Acenaphthene	<0.0467	1.67	1.48	89	50-113	mg/kg	06.20.13 18:23	
Acenaphthylene	<0.0567	1.67	1.54	92	57-126	mg/kg	06.20.13 18:23	
Anthracene	<0.0493	1.67	1.48	89	60-116	mg/kg	06.20.13 18:23	
Benzo(a)anthracene	<0.0540	1.67	1.51	90	56-123	mg/kg	06.20.13 18:23	
Benzo(a)pyrene	<0.0490	1.67	1.45	87	58-101	mg/kg	06.20.13 18:23	
Benzo(b)fluoranthene	<0.0543	1.67	1.53	92	60-111	mg/kg	06.20.13 18:23	
Benzo(g,h,i)perylene	<0.0550	1.67	1.43	86	57-122	mg/kg	06.20.13 18:23	
Benzo(k)fluoranthene	<0.0573	1.67	1.45	87	59-116	mg/kg	06.20.13 18:23	
Benzoic Acid	<0.0527	1.67	1.19	71	50-125	mg/kg	06.20.13 18:23	
Benzyl Alcohol	<0.0533	1.67	1.33	80	45-107	mg/kg	06.20.13 18:23	
bis(2-chloroethoxy) methane	<0.0400	1.67	1.43	86	50-106	mg/kg	06.20.13 18:23	
bis(2-chloroethyl) ether	<0.0473	1.67	1.35	81	50-103	mg/kg	06.20.13 18:23	
bis(2-chloroisopropyl) ether	<0.0450	1.67	1.66	99	43-117	mg/kg	06.20.13 18:23	
bis(2-ethylhexyl) phthalate	<0.0540	1.67	1.40	84	46-137	mg/kg	06.20.13 18:23	
Butylbenzylphthalate	<0.0500	1.67	1.41	84	44-137	mg/kg	06.20.13 18:23	
Chrysene	<0.0443	1.67	1.47	88	57-114	mg/kg	06.20.13 18:23	
Dibenz(a,h)Anthracene	<0.0647	1.67	1.44	86	57-123	mg/kg	06.20.13 18:23	
Dibenzofuran	<0.0427	1.67	1.36	81	50-109	mg/kg	06.20.13 18:23	
Diethyl Phthalate	<0.0537	1.67	1.44	86	51-124	mg/kg	06.20.13 18:23	
Dimethyl Phthalate	<0.0503	1.67	1.46	87	53-116	mg/kg	06.20.13 18:23	
di-n-Butyl Phthalate	<0.0613	1.67	1.40	84	53-127	mg/kg	06.20.13 18:23	
di-n-Octyl Phthalate	<0.0553	1.67	1.37	82	46-133	mg/kg	06.20.13 18:23	
Fluoranthene	<0.0433	1.67	1.51	90	61-115	mg/kg	06.20.13 18:23	
Fluorene	<0.0407	1.67	1.46	87	55-114	mg/kg	06.20.13 18:23	
Hexachlorobenzene	<0.0557	1.67	1.72	103	54-121	mg/kg	06.20.13 18:23	
Hexachlorobutadiene	<0.0370	1.67	1.42	85	50-110	mg/kg	06.20.13 18:23	
Hexachlorocyclopentadiene	<0.0573	1.67	1.32	79	60-144	mg/kg	06.20.13 18:23	
Hexachloroethane	<0.0517	1.67	1.28	77	42-109	mg/kg	06.20.13 18:23	

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **SVOCs by SW-846 8270D** Prep Method: SW3550

Seq Number: 916744 Matrix: Solid Date Prep: 06.20.13

MB Sample Id: 639993-1-BLK LCS Sample Id: 639993-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Indeno(1,2,3-c,d)Pyrene	<0.0607	1.67	1.39	83	58-127	mg/kg	06.20.13 18:23	
Isophorone	<0.0343	1.67	1.37	82	47-143	mg/kg	06.20.13 18:23	
Naphthalene	<0.0533	1.67	1.41	84	50-106	mg/kg	06.20.13 18:23	
Nitrobenzene	<0.0593	1.67	1.33	80	47-107	mg/kg	06.20.13 18:23	
N-Nitrosodi-n-Propylamine	<0.0477	1.67	1.43	86	43-125	mg/kg	06.20.13 18:23	
N-Nitrosodiphenylamine	<0.0700	1.67	1.54	92	54-127	mg/kg	06.20.13 18:23	
Pentachlorophenol	<0.0603	1.67	1.34	80	10-141	mg/kg	06.20.13 18:23	
Phenanthrene	<0.0553	1.67	1.49	89	59-112	mg/kg	06.20.13 18:23	
Phenol	<0.0467	1.67	1.29	77	45-108	mg/kg	06.20.13 18:23	
Pyrene	<0.0567	1.67	1.44	86	52-124	mg/kg	06.20.13 18:23	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	Limits	Units	Analysis Date
2-Fluorobiphenyl	50		84		20-112	%	06.20.13 18:23
2-Fluorophenol	3	**	81		18-101	%	06.20.13 18:23
Nitrobenzene-d5	33		75		13-112	%	06.20.13 18:23
Phenol-d5	8	**	78		15-110	%	06.20.13 18:23
Terphenyl-D14	83		84		21-138	%	06.20.13 18:23
2,4,6-Tribromophenol	82		107		21-128	%	06.20.13 18:23

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **SVOCs by SW-846 8270D** Prep Method: SW3550

Seq Number: 916744 Matrix: Soil Date Prep: 06.20.13

Parent Sample Id: 465343-001 MS Sample Id: 465343-001 S MSD Sample Id: 465343-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<0.0588	1.66	1.21	73	1.03	62	45-110	16	30	mg/kg	06.20.13 20:17	
1,2-Dichlorobenzene	<0.0538	1.66	1.13	68	1.04	63	45-100	8	30	mg/kg	06.20.13 20:17	
1,2-Diphenylhydrazine	<0.0365	1.66	1.26	76	1.21	73	45-120	4	30	mg/kg	06.20.13 20:17	
1,3-Dichlorobenzene	<0.0525	1.66	1.12	67	1.02	61	40-100	9	30	mg/kg	06.20.13 20:17	
1,4-Dichlorobenzene	<0.0518	1.66	1.12	67	1.01	61	35-105	10	30	mg/kg	06.20.13 20:17	
2,4,6-Trichlorophenol	<0.0641	1.66	1.26	76	1.07	64	45-110	16	30	mg/kg	06.20.13 20:17	
2,4-Dichlorophenol	<0.0422	1.66	1.20	72	1.05	63	45-110	13	30	mg/kg	06.20.13 20:17	
2,4-Dimethylphenol	<0.0604	1.66	1.18	71	1.09	66	30-105	8	30	mg/kg	06.20.13 20:17	
2,4-Dinitrophenol	<0.0535	1.66	0.887	53	0.722	43	15-130	21	30	mg/kg	06.20.13 20:17	
2,4-Dinitrotoluene	<0.0535	1.66	1.31	79	1.23	74	50-115	6	30	mg/kg	06.20.13 20:17	
2,6-Dinitrotoluene	<0.0432	1.66	1.28	77	1.18	71	50-110	8	30	mg/kg	06.20.13 20:17	
2-Chloronaphthalene	<0.0604	1.66	1.27	77	1.13	68	45-105	12	30	mg/kg	06.20.13 20:17	
2-Chlorophenol	<0.0594	1.66	1.11	67	1.04	63	45-105	7	30	mg/kg	06.20.13 20:17	
2-Methylnaphthalene	<0.0508	1.66	1.12	67	0.997	60	45-105	12	30	mg/kg	06.20.13 20:17	
2-methylphenol	<0.0465	1.66	1.12	67	1.08	65	40-105	4	30	mg/kg	06.20.13 20:17	
2-Nitrophenol	<0.0418	1.66	1.11	67	0.991	60	40-110	11	30	mg/kg	06.20.13 20:17	
3&4-Methylphenol	<0.0983	3.32	2.27	68	2.14	64	40-105	6	30	mg/kg	06.20.13 20:17	
3,3-Dichlorobenzidine	<0.0485	1.66	1.02	61	0.935	56	20-140	9	30	mg/kg	06.20.13 20:17	
4,6-dinitro-2-methyl phenol	<0.0578	1.66	1.12	67	0.840	51	30-135	29	30	mg/kg	06.20.13 20:17	
4-Bromophenyl-phenylether	<0.0565	1.66	1.43	86	1.16	70	45-115	21	30	mg/kg	06.20.13 20:17	
4-chloro-3-methylphenol	<0.0475	1.66	1.18	71	1.10	66	45-115	7	30	mg/kg	06.20.13 20:17	
4-Chloroaniline	<0.0551	1.66	0.920	55	0.871	52	4-149	5	30	mg/kg	06.20.13 20:17	
4-Chlorophenyl Phenyl Ether	<0.0631	1.66	1.31	79	1.11	67	45-110	17	30	mg/kg	06.20.13 20:17	
4-Nitrophenol	<0.0409	1.66	0.959	58	1.03	62	15-140	7	30	mg/kg	06.20.13 20:17	
Acenaphthene	<0.0465	1.66	1.29	78	1.16	70	45-110	11	30	mg/kg	06.20.13 20:17	
Acenaphthylene	<0.0565	1.66	1.36	82	1.23	74	45-105	10	30	mg/kg	06.20.13 20:17	
Anthracene	<0.0492	1.66	1.32	80	1.17	70	55-105	12	30	mg/kg	06.20.13 20:17	
Benzo(a)anthracene	<0.0538	1.66	1.36	82	1.22	73	50-110	11	30	mg/kg	06.20.13 20:17	
Benzo(a)pyrene	<0.0488	1.66	1.27	77	1.15	69	50-110	10	30	mg/kg	06.20.13 20:17	
Benzo(b)fluoranthene	<0.0541	1.66	1.31	79	1.16	70	45-115	12	30	mg/kg	06.20.13 20:17	
Benzo(g,h,i)perylene	<0.0548	1.66	1.29	78	1.24	75	40-125	4	30	mg/kg	06.20.13 20:17	
Benzo(k)fluoranthene	<0.0571	1.66	1.28	77	1.13	68	45-125	12	30	mg/kg	06.20.13 20:17	
Benzoic Acid	<0.0525	1.66	0.944	57	0.890	54	50-125	6	30	mg/kg	06.20.13 20:17	
Benzyl Alcohol	<0.0531	1.66	1.14	69	1.06	64	20-125	7	30	mg/kg	06.20.13 20:17	
bis(2-chloroethoxy) methane	<0.0399	1.66	1.23	74	1.11	67	45-110	10	30	mg/kg	06.20.13 20:17	
bis(2-chloroethyl) ether	<0.0472	1.66	1.13	68	1.10	66	40-105	3	30	mg/kg	06.20.13 20:17	
bis(2-chloroisopropyl) ether	<0.0448	1.66	1.38	83	1.33	80	20-115	4	30	mg/kg	06.20.13 20:17	
bis(2-ethylhexyl) phthalate	<0.0538	1.66	1.29	78	1.34	81	45-125	4	30	mg/kg	06.20.13 20:17	
Butylbenzylphthalate	<0.0498	1.66	1.29	78	1.26	76	50-125	2	30	mg/kg	06.20.13 20:17	
Chrysene	<0.0442	1.66	1.30	78	1.17	70	55-110	11	30	mg/kg	06.20.13 20:17	
Dibenz(a,h)Anthracene	<0.0644	1.66	1.28	77	1.16	70	40-125	10	30	mg/kg	06.20.13 20:17	
Dibenzofuran	<0.0425	1.66	1.21	73	1.07	64	50-105	12	30	mg/kg	06.20.13 20:17	
Diethyl Phthalate	<0.0535	1.66	1.29	78	1.21	73	50-115	6	30	mg/kg	06.20.13 20:17	
Dimethyl Phthalate	<0.0501	1.66	1.29	78	1.19	72	50-110	8	30	mg/kg	06.20.13 20:17	
di-n-Butyl Phthalate	<0.0611	1.66	1.29	78	1.19	72	55-110	8	30	mg/kg	06.20.13 20:17	
di-n-Octyl Phthalate	<0.0551	1.66	1.26	76	1.26	76	40-130	0	30	mg/kg	06.20.13 20:17	
Fluoranthene	<0.0432	1.66	1.37	83	1.21	73	55-115	12	30	mg/kg	06.20.13 20:17	
Fluorene	<0.0405	1.66	1.31	79	1.18	71	50-110	10	30	mg/kg	06.20.13 20:17	
Hexachlorobenzene	<0.0555	1.66	1.48	89	1.19	72	45-120	22	30	mg/kg	06.20.13 20:17	
Hexachlorobutadiene	<0.0369	1.66	1.15	69	1.02	61	40-115	12	30	mg/kg	06.20.13 20:17	
Hexachlorocyclopentadiene	<0.0571	1.66	1.09	66	0.903	54	65-135	19	30	mg/kg	06.20.13 20:17	X
Hexachloroethane	<0.0515	1.66	1.06	64	1.08	65	35-110	2	30	mg/kg	06.20.13 20:17	

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **SVOCs by SW-846 8270D** Prep Method: SW3550

Seq Number: 916744 Matrix: Soil Date Prep: 06.20.13

Parent Sample Id: 465343-001 MS Sample Id: 465343-001 S MSD Sample Id: 465343-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Indeno(1,2,3-c,d)Pyrene	<0.0604	1.66	1.24	75	1.13	68	40-120	9	30	mg/kg	06.20.13 20:17	
Isophorone	<0.0342	1.66	1.20	72	1.13	68	45-110	6	30	mg/kg	06.20.13 20:17	
Naphthalene	<0.0531	1.66	1.21	73	1.09	66	40-105	10	30	mg/kg	06.20.13 20:17	
Nitrobenzene	<0.0591	1.66	1.11	67	1.07	64	40-115	4	30	mg/kg	06.20.13 20:17	
N-Nitrosodi-n-Propylamine	<0.0475	1.66	1.23	74	1.22	73	40-115	1	30	mg/kg	06.20.13 20:17	
N-Nitrosodiphenylamine	<0.0697	1.66	1.37	83	1.21	73	50-115	12	30	mg/kg	06.20.13 20:17	
Pentachlorophenol	<0.0601	1.66	1.18	71	0.956	58	25-120	21	30	mg/kg	06.20.13 20:17	
Phenanthrene	<0.0551	1.66	1.33	80	1.18	71	50-110	12	30	mg/kg	06.20.13 20:17	
Phenol	<0.0465	1.66	1.07	64	1.02	61	40-100	5	30	mg/kg	06.20.13 20:17	
Pyrene	<0.0565	1.66	1.29	78	1.16	70	45-125	11	30	mg/kg	06.20.13 20:17	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
2-Fluorobiphenyl	69		62		20-112	%	06.20.13 20:17
2-Fluorophenol	62		60		18-101	%	06.20.13 20:17
Nitrobenzene-d5	61		60		13-112	%	06.20.13 20:17
Phenol-d5	63		61		15-110	%	06.20.13 20:17
Terphenyl-D14	72		69		21-138	%	06.20.13 20:17
2,4,6-Tribromophenol	88		67		21-128	%	06.20.13 20:17

Analytical Method: **MADEP VPH REV 1.1** Prep Method: SW5030B

Seq Number: 916782 Matrix: Water Date Prep: 06.20.13

MB Sample Id: 640027-1-BLK LCS Sample Id: 640027-1-BKS LCSD Sample Id: 640027-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C5-C8 Aliphatics (Unadj.)	<15.0	150	161	107	161	107	70-130	0	25	ug/L	06.20.13 11:35	
C9-C10 Aromatics (Unadj.)	<5.00	50.0	51.0	102	51.0	102	70-130	0	25	ug/L	06.20.13 11:35	
C9-C12 Aliphatics (Unadj.)	<15.0	150	152	101	152	101	70-130	0	25	ug/L	06.20.13 11:35	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
2,5-Dibromotoluene	100		123		130		70-130	%	06.20.13 11:35
2,5-Dibromotoluene (PID)	98		120		128		70-130	%	06.20.13 11:35

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **MADEP VPH REV 1.1** Prep Method: SW5030B
Seq Number: 916782 Matrix: Ground Water Date Prep: 06.20.13
Parent Sample Id: 465343-006 MS Sample Id: 465343-006 S MSD Sample Id: 465343-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C5-C8 Aliphatics (Unadj.)	<15.0	150	132	88	134	89	70-130	2	25	ug/L	06.20.13 17:10	
C9-C10 Aromatics (Unadj.)	<5.00	50.0	64.0	128	64.0	128	70-130	0	25	ug/L	06.20.13 17:10	
C9-C12 Aliphatics (Unadj.)	50.0	150	143	62	128	52	70-130	11	25	ug/L	06.20.13 17:10	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
2,5-Dibromotoluene	113		105		70-130	%	06.20.13 17:10
2,5-Dibromotoluene (PID)	108		103		70-130	%	06.20.13 17:10

Analytical Method: **MADEP VPH REV 1.1** Prep Method: SW5030B
Seq Number: 917180 Matrix: Solid Date Prep: 06.26.13
MB Sample Id: 640310-1-BLK LCS Sample Id: 640310-1-BKS LCSD Sample Id: 640310-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Unadjusted C5-C8 Aliphatics	<0.750	7.50	7.50	100	8.00	107	70-130	6	25	mg/kg	06.26.13 10:17	
Unadjusted C9-C12 Aliphatics	<0.750	7.50	8.00	107	7.50	100	70-130	6	25	mg/kg	06.26.13 10:17	
Unadjusted C9-C10 Aromatics	<0.250	2.50	2.50	100	2.50	100	70-130	0	25	mg/kg	06.26.13 10:17	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
2,5-Dibromotoluene	100		125		125		70-130	%	06.26.13 10:17
2,5-Dibromotoluene (PID)	125		125		125		70-130	%	06.26.13 10:17

Analytical Method: **MADEP VPH REV 1.1** Prep Method: SW5030B
Seq Number: 917180 Matrix: Soil Date Prep: 06.26.13
Parent Sample Id: 465343-002 MD Sample Id: 465343-002 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Unadjusted C5-C8 Aliphatics	<0.750	<0.750	0	25	mg/kg	06.26.13 13:14	U
Unadjusted C9-C12 Aliphatics	<0.750	<0.750	0	25	mg/kg	06.26.13 13:14	U
Unadjusted C9-C10 Aromatics	<0.250	<0.250	0	25	mg/kg	06.26.13 13:14	U

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **MADEP VPH REV 1.1** Prep Method: SW5030B

Seq Number: 917180 Matrix: Soil Date Prep: 06.26.13

Parent Sample Id: 465343-002 MS Sample Id: 465343-002 S MSD Sample Id: 465343-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Unadjusted C5-C8 Aliphatics	<0.750	7.50	7.00	93	7.50	100	70-130	7	25	mg/kg	06.26.13 13:59	
Unadjusted C9-C12 Aliphatics	<0.750	7.50	6.00	80	6.50	87	70-130	8	25	mg/kg	06.26.13 13:59	
Unadjusted C9-C10 Aromatics	<0.250	2.50	2.00	80	2.00	80	70-130	0	25	mg/kg	06.26.13 13:59	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
2,5-Dibromotoluene	75		100		70-130	%	06.26.13 13:59
2,5-Dibromotoluene (PID)	100		100		70-130	%	06.26.13 13:59

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **VOCs by GC/MS by SM6200B** Prep Method: SM6200B_PREP

Seq Number: 917159 Matrix: Water Date Prep: 06.26.13

MB Sample Id: 640292-1-BLK LCS Sample Id: 640292-1-BKS LCSD Sample Id: 640292-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.0760	25.0	24.2	97	24.6	98	82-129	2	20	ug/L	06.26.13 08:20	
1,1,2,2-Tetrachloroethane	<0.0700	25.0	24.0	96	24.5	98	73-129	2	20	ug/L	06.26.13 08:20	
1,1,2-Trichloroethane	<0.113	25.0	23.6	94	22.9	92	78-126	3	20	ug/L	06.26.13 08:20	
1,1-Dichloroethane	<0.121	25.0	23.4	94	24.5	98	76-131	5	20	ug/L	06.26.13 08:20	
1,1-Dichloroethene	<0.104	25.0	24.2	97	25.4	102	81-132	5	22	ug/L	06.26.13 08:20	
1,1-Dichloropropene	<0.0600	25.0	24.4	98	24.1	96	83-134	1	20	ug/L	06.26.13 08:20	
1,2,3-Trichlorobenzene	<0.118	25.0	25.0	100	24.7	99	69-148	1	20	ug/L	06.26.13 08:20	
1,2,3-Trichloropropane	<0.138	25.0	23.8	95	24.3	97	75-124	2	20	ug/L	06.26.13 08:20	
1,2,4-Trichlorobenzene	<0.0690	25.0	25.5	102	25.0	100	77-140	2	20	ug/L	06.26.13 08:20	
1,2,4-Trimethylbenzene	<0.103	25.0	24.4	98	24.7	99	85-123	1	20	ug/L	06.26.13 08:20	
1,2-Dibromoethane (EDB)	<0.180	25.0	25.0	100	24.8	99	80-130	1	20	ug/L	06.26.13 08:20	
1,2-Dichlorobenzene	<0.0940	25.0	23.9	96	23.6	94	87-122	1	20	ug/L	06.26.13 08:20	
1,2-Dichloroethane	<0.0900	25.0	23.7	95	23.8	95	70-127	0	20	ug/L	06.26.13 08:20	
1,2-Dichloropropane	<0.122	25.0	24.4	98	23.4	94	73-140	4	20	ug/L	06.26.13 08:20	
1,3,5-Trimethylbenzene	<0.0870	25.0	24.4	98	24.5	98	83-129	0	20	ug/L	06.26.13 08:20	
1,3-Dichlorobenzene	<0.0980	25.0	23.9	96	23.9	96	88-120	0	20	ug/L	06.26.13 08:20	
1,3-Dichloropropane	<0.133	25.0	24.2	97	24.0	96	77-127	1	20	ug/L	06.26.13 08:20	
1,4-Dichlorobenzene	<0.0670	25.0	23.4	94	23.7	95	86-116	1	20	ug/L	06.26.13 08:20	
2,2-Dichloropropane	<0.0970	25.0	25.4	102	28.1	112	86-141	10	20	ug/L	06.26.13 08:20	
2-Butanone (MEK)	<0.378	50.0	47.3	95	48.9	98	53-149	3	20	ug/L	06.26.13 08:20	
2-Chlorotoluene	<0.0880	25.0	23.5	94	23.9	96	84-126	2	20	ug/L	06.26.13 08:20	
2-Hexanone	<0.352	50.0	50.0	100	50.9	102	68-140	2	20	ug/L	06.26.13 08:20	
4-Chlorotoluene	<0.0900	25.0	24.0	96	24.3	97	85-125	1	20	ug/L	06.26.13 08:20	
4-Isopropyltoluene	<0.0890	25.0	24.9	100	25.0	100	83-132	0	20	ug/L	06.26.13 08:20	
4-Methyl-2-pentanone (MIBK)	<0.253	50.0	49.1	98	49.5	99	66-135	1	20	ug/L	06.26.13 08:20	
Acetone	<0.352	50.0	61.8	124	70.5	141	58-168	13	21	ug/L	06.26.13 08:20	
Benzene	<0.119	25.0	23.6	94	23.6	94	78-136	0	20	ug/L	06.26.13 08:20	
Bromobenzene	<0.132	25.0	23.6	94	24.2	97	80-121	3	20	ug/L	06.26.13 08:20	
Bromochloromethane	<0.112	25.0	23.0	92	24.8	99	81-127	8	20	ug/L	06.26.13 08:20	
Bromodichloromethane	<0.124	25.0	25.1	100	25.4	102	89-128	1	20	ug/L	06.26.13 08:20	
Bromoform	<0.159	25.0	25.8	103	26.1	104	74-114	1	20	ug/L	06.26.13 08:20	
Bromomethane	<0.0970	25.0	21.9	88	22.5	90	80-132	3	20	ug/L	06.26.13 08:20	
Carbon tetrachloride	<0.0990	25.0	21.9	88	24.9	100	78-140	13	20	ug/L	06.26.13 08:20	
Chlorobenzene	<0.105	25.0	23.4	94	24.3	97	86-118	4	20	ug/L	06.26.13 08:20	
Chlorodibromomethane	<0.177	25.0	26.2	105	26.7	107	82-131	2	20	ug/L	06.26.13 08:20	
Chloroethane	<0.0420	25.0	22.3	89	22.6	90	71-132	1	20	ug/L	06.26.13 08:20	
Chloroform	<0.172	25.0	23.1	92	23.7	95	79-126	3	20	ug/L	06.26.13 08:20	
Chloromethane	<0.0850	25.0	22.6	90	22.3	89	69-135	1	20	ug/L	06.26.13 08:20	
cis-1,2-Dichloroethene	<0.114	25.0	23.5	94	24.3	97	79-133	3	20	ug/L	06.26.13 08:20	
cis-1,3-Dichloropropene	<0.100	25.0	26.2	105	25.6	102	75-138	2	20	ug/L	06.26.13 08:20	
Dichlorodifluoromethane	<0.0670	25.0	25.0	100	25.6	102	57-142	2	20	ug/L	06.26.13 08:20	
Ethanol	<3.00	1000	917	92	923	92	70-130	1	20	ug/L	06.26.13 08:20	
Ethylbenzene	<0.0920	25.0	24.1	96	24.4	98	84-124	1	20	ug/L	06.26.13 08:20	
Isopropyl ether	<0.0920	25.0	23.5	94	24.2	97	61-146	3	20	ug/L	06.26.13 08:20	
Isopropylbenzene	<0.0980	25.0	24.4	98	24.5	98	84-131	0	20	ug/L	06.26.13 08:20	
Methyl tert-butyl ether (MTBE)	<0.169	50.0	47.0	94	49.2	98	55-145	5	20	ug/L	06.26.13 08:20	
Methylene Chloride	<0.190	25.0	27.9	112	30.5	122	74-131	9	20	ug/L	06.26.13 08:20	
Naphthalene	<0.0940	25.0	25.5	102	25.3	101	74-144	1	20	ug/L	06.26.13 08:20	
n-Butylbenzene	<0.0600	25.0	25.8	103	25.7	103	80-134	0	20	ug/L	06.26.13 08:20	
n-Propylbenzene	<0.0650	25.0	24.2	97	24.4	98	82-129	1	20	ug/L	06.26.13 08:20	
sec-Butylbenzene	<0.0920	25.0	24.4	98	24.3	97	80-131	0	20	ug/L	06.26.13 08:20	
Styrene	<0.0740	25.0	24.1	96	24.9	100	88-123	3	20	ug/L	06.26.13 08:20	

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **VOCs by GC/MS by SM6200B** Prep Method: SM6200B_PREP

Seq Number: 917159 Matrix: Water Date Prep: 06.26.13

MB Sample Id: 640292-1-BLK LCS Sample Id: 640292-1-BKS LCSD Sample Id: 640292-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
tert-Butylbenzene	<0.0890	25.0	24.3	97	24.5	98	83-134	1	20	ug/L	06.26.13 08:20	
Tetrachloroethene (PCE)	<0.0540	25.0	24.4	98	23.8	95	83-126	2	20	ug/L	06.26.13 08:20	
Toluene	<0.0570	25.0	24.4	98	24.1	96	87-121	1	20	ug/L	06.26.13 08:20	
trans-1,2-Dichloroethene	<0.188	25.0	24.2	97	25.2	101	81-135	4	20	ug/L	06.26.13 08:20	
trans-1,3-Dichloropropene	<0.110	25.0	26.0	104	25.8	103	75-117	1	20	ug/L	06.26.13 08:20	
Trichloroethene	<0.139	25.0	24.4	98	22.3	89	84-125	9	20	ug/L	06.26.13 08:20	
Trichlorofluoromethane	<0.0540	25.0	23.5	94	25.1	100	65-143	7	20	ug/L	06.26.13 08:20	
Vinyl Acetate	<0.720	25.0	24.6	98	24.8	99	47-154	1	20	ug/L	06.26.13 08:20	
Vinyl Chloride	<0.0810	25.0	23.5	94	24.0	96	75-132	2	20	ug/L	06.26.13 08:20	
m,p-Xylenes	<0.176	50.0	47.9	96	48.2	96	85-127	1	20	ug/L	06.26.13 08:20	
o-Xylene	<0.122	25.0	24.5	98	25.1	100	86-124	2	20	ug/L	06.26.13 08:20	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	110		95		102		53-159	%	06.26.13 08:20
4-Bromofluorobenzene	102		98		97		30-186	%	06.26.13 08:20
Toluene-D8	92		99		98		70-130	%	06.26.13 08:20

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: VOCs by GC/MS by SM6200B Prep Method: SM6200B_PREP

Seq Number: 917159 Matrix: Ground Water Date Prep: 06.26.13

Parent Sample Id: 465523-007 MD Sample Id: 465523-007 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.0760	<0.0760	0	20	ug/L	06.26.13 13:19	U
1,1,2,2-Tetrachloroethane	<0.0700	<0.0700	0	20	ug/L	06.26.13 13:19	U
1,1,2-Trichloroethane	<0.113	<0.113	0	20	ug/L	06.26.13 13:19	U
1,1-Dichloroethane	<0.121	<0.121	0	20	ug/L	06.26.13 13:19	U
1,1-Dichloroethene	<0.104	<0.104	0	22	ug/L	06.26.13 13:19	U
1,1-Dichloropropene	<0.0600	<0.0600	0	20	ug/L	06.26.13 13:19	U
1,2,3-Trichlorobenzene	<0.118	<0.118	0	20	ug/L	06.26.13 13:19	U
1,2,3-Trichloropropane	<0.138	<0.138	0	20	ug/L	06.26.13 13:19	U
1,2,4-Trichlorobenzene	<0.0690	<0.0690	0	20	ug/L	06.26.13 13:19	U
1,2,4-Trimethylbenzene	<0.103	<0.103	0	20	ug/L	06.26.13 13:19	U
1,2-Dibromoethane (EDB)	<0.180	<0.180	0	20	ug/L	06.26.13 13:19	U
1,2-Dichlorobenzene	<0.0940	<0.0940	0	20	ug/L	06.26.13 13:19	U
1,2-Dichloroethane	<0.0900	<0.0900	0	20	ug/L	06.26.13 13:19	U
1,2-Dichloropropane	<0.122	<0.122	0	20	ug/L	06.26.13 13:19	U
1,3,5-Trimethylbenzene	<0.0870	<0.0870	0	20	ug/L	06.26.13 13:19	U
1,3-Dichlorobenzene	<0.0980	<0.0980	0	20	ug/L	06.26.13 13:19	U
1,3-Dichloropropane	<0.133	<0.133	0	20	ug/L	06.26.13 13:19	U
1,4-Dichlorobenzene	<0.0670	<0.0670	0	20	ug/L	06.26.13 13:19	U
2,2-Dichloropropane	<0.0970	<0.0970	0	20	ug/L	06.26.13 13:19	U
2-Butanone (MEK)	<0.378	<0.378	0	20	ug/L	06.26.13 13:19	U
2-Chlorotoluene	<0.0880	<0.0880	0	20	ug/L	06.26.13 13:19	U
2-Hexanone	<0.352	<0.352	0	20	ug/L	06.26.13 13:19	U
4-Chlorotoluene	<0.0900	<0.0900	0	20	ug/L	06.26.13 13:19	U
4-Isopropyltoluene	<0.0890	<0.0890	0	20	ug/L	06.26.13 13:19	U
4-Methyl-2-pentanone (MIBK)	<0.253	<0.253	0	20	ug/L	06.26.13 13:19	U
Acetone	<0.352	<0.352	0	21	ug/L	06.26.13 13:19	U
Benzene	<0.119	<0.119	0	20	ug/L	06.26.13 13:19	U
Bromobenzene	<0.132	<0.132	0	20	ug/L	06.26.13 13:19	U
Bromochloromethane	<0.112	<0.112	0	20	ug/L	06.26.13 13:19	U
Bromodichloromethane	<0.124	<0.124	0	20	ug/L	06.26.13 13:19	U
Bromoform	<0.159	<0.159	0	20	ug/L	06.26.13 13:19	U
Bromomethane	<0.0970	<0.0970	0	20	ug/L	06.26.13 13:19	U
Carbon tetrachloride	<0.0990	<0.0990	0	20	ug/L	06.26.13 13:19	U
Chlorobenzene	<0.105	<0.105	0	20	ug/L	06.26.13 13:19	U
Chlorodibromomethane	<0.177	<0.177	0	20	ug/L	06.26.13 13:19	U
Chloroethane	<0.0420	<0.0420	0	20	ug/L	06.26.13 13:19	U
Chloroform	<0.172	<0.172	0	20	ug/L	06.26.13 13:19	U
Chloromethane	<0.0850	<0.0850	0	20	ug/L	06.26.13 13:19	U
cis-1,2-Dichloroethene	<0.114	<0.114	0	20	ug/L	06.26.13 13:19	U
cis-1,3-Dichloropropene	<0.100	<0.100	0	20	ug/L	06.26.13 13:19	U
Dichlorodifluoromethane	<0.0670	<0.0670	0	20	ug/L	06.26.13 13:19	U
Ethanol	<3.00	<3.00	0	20	ug/L	06.26.13 13:19	U
Ethylbenzene	<0.0920	<0.0920	0	20	ug/L	06.26.13 13:19	U
Isopropyl ether	1.38	1.27	8	20	ug/L	06.26.13 13:19	
Isopropylbenzene	<0.0980	<0.0980	0	20	ug/L	06.26.13 13:19	U
Methyl tert-butyl ether (MTBE)	8.81	8.75	1	20	ug/L	06.26.13 13:19	
Methylene Chloride	<0.190	<0.190	0	20	ug/L	06.26.13 13:19	U
Naphthalene	<0.0940	<0.0940	0	20	ug/L	06.26.13 13:19	U
n-Butylbenzene	<0.0600	<0.0600	0	20	ug/L	06.26.13 13:19	U
n-Propylbenzene	<0.0650	<0.0650	0	20	ug/L	06.26.13 13:19	U
sec-Butylbenzene	<0.0920	<0.0920	0	20	ug/L	06.26.13 13:19	U
Styrene	<0.0740	<0.0740	0	20	ug/L	06.26.13 13:19	U

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **VOCs by GC/MS by SM6200B** Prep Method: SM6200B_PREP

Seq Number: 917159 Matrix: Ground Water Date Prep: 06.26.13

Parent Sample Id: 465523-007 MD Sample Id: 465523-007 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
tert-Butylbenzene	<0.0890	<0.0890	0	20	ug/L	06.26.13 13:19	U
Tetrachloroethene (PCE)	<0.0540	<0.0540	0	20	ug/L	06.26.13 13:19	U
Toluene	<0.0570	<0.0570	0	20	ug/L	06.26.13 13:19	U
trans-1,2-Dichloroethene	<0.188	<0.188	0	20	ug/L	06.26.13 13:19	U
trans-1,3-Dichloropropene	<0.110	<0.110	0	20	ug/L	06.26.13 13:19	U
Trichloroethene	<0.139	<0.139	0	20	ug/L	06.26.13 13:19	U
Trichlorofluoromethane	<0.0540	<0.0540	0	20	ug/L	06.26.13 13:19	U
Vinyl Acetate	<0.720	<0.720	0	20	ug/L	06.26.13 13:19	U
Vinyl Chloride	<0.0810	<0.0810	0	20	ug/L	06.26.13 13:19	U
m,p-Xylenes	<0.176	<0.176	0	20	ug/L	06.26.13 13:19	U
o-Xylene	<0.122	<0.122	0	20	ug/L	06.26.13 13:19	U

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **VOCs by GC/MS by SM6200B** Prep Method: SM6200B_PREP

Seq Number: 917159 Matrix: Ground Water Date Prep: 06.26.13

Parent Sample Id: 465523-007 MS Sample Id: 465523-007 S MSD Sample Id: 465523-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.0760	25.0	25.1	100	24.8	99	71-131	1	20	ug/L	06.26.13 18:30	
1,1,2,2-Tetrachloroethane	<0.0700	25.0	23.5	94	23.7	95	65-131	1	20	ug/L	06.26.13 18:30	
1,1,2-Trichloroethane	<0.113	25.0	24.2	97	23.3	93	68-128	4	20	ug/L	06.26.13 18:30	
1,1-Dichloroethane	<0.121	25.0	23.7	95	23.3	93	72-130	2	20	ug/L	06.26.13 18:30	
1,1-Dichloroethene	<0.104	25.0	24.0	96	23.3	93	56-139	3	22	ug/L	06.26.13 18:30	
1,1-Dichloropropene	<0.0600	25.0	24.3	97	24.0	96	77-119	1	20	ug/L	06.26.13 18:30	
1,2,3-Trichlorobenzene	<0.118	25.0	22.9	92	24.5	98	62-131	7	20	ug/L	06.26.13 18:30	
1,2,3-Trichloropropane	<0.138	25.0	23.4	94	23.5	94	60-136	0	20	ug/L	06.26.13 18:30	
1,2,4-Trichlorobenzene	<0.0690	25.0	23.5	94	24.8	99	67-130	5	20	ug/L	06.26.13 18:30	
1,2,4-Trimethylbenzene	<0.103	25.0	24.2	97	24.4	98	70-127	1	20	ug/L	06.26.13 18:30	
1,2-Dibromoethane (EDB)	<0.180	25.0	24.1	96	24.5	98	75-127	2	20	ug/L	06.26.13 18:30	
1,2-Dichlorobenzene	<0.0940	25.0	23.0	92	23.3	93	78-116	1	20	ug/L	06.26.13 18:30	
1,2-Dichloroethane	<0.0900	25.0	24.7	99	24.8	99	55-145	0	20	ug/L	06.26.13 18:30	
1,2-Dichloropropane	<0.122	25.0	24.3	97	24.3	97	75-118	0	20	ug/L	06.26.13 18:30	
1,3,5-Trimethylbenzene	<0.0870	25.0	24.0	96	24.0	96	73-122	0	20	ug/L	06.26.13 18:30	
1,3-Dichlorobenzene	<0.0980	25.0	22.6	90	23.2	93	77-116	3	20	ug/L	06.26.13 18:30	
1,3-Dichloropropane	<0.133	25.0	24.8	99	24.8	99	71-128	0	20	ug/L	06.26.13 18:30	
1,4-Dichlorobenzene	<0.0670	25.0	22.7	91	22.7	91	79-112	0	20	ug/L	06.26.13 18:30	
2,2-Dichloropropane	<0.0970	25.0	24.3	97	22.6	90	62-138	7	20	ug/L	06.26.13 18:30	
2-Butanone (MEK)	<0.378	50.0	47.8	96	47.9	96	34-167	0	20	ug/L	06.26.13 18:30	
2-Chlorotoluene	<0.0880	25.0	23.2	93	23.5	94	71-121	1	20	ug/L	06.26.13 18:30	
2-Hexanone	<0.352	50.0	50.6	101	50.5	101	46-152	0	20	ug/L	06.26.13 18:30	
4-Chlorotoluene	<0.0900	25.0	23.9	96	23.9	96	72-120	0	20	ug/L	06.26.13 18:30	
4-Isopropyltoluene	<0.0890	25.0	24.3	97	24.6	98	75-123	1	20	ug/L	06.26.13 18:30	
4-Methyl-2-pentanone (MIBK)	<0.253	50.0	51.7	103	52.6	105	53-155	2	20	ug/L	06.26.13 18:30	
Acetone	<0.352	50.0	47.1	94	46.3	93	70-130	2	21	ug/L	06.26.13 18:30	
Benzene	<0.119	25.0	23.4	94	23.5	94	64-135	0	20	ug/L	06.26.13 18:30	
Bromobenzene	<0.132	25.0	23.7	95	23.5	94	68-122	1	20	ug/L	06.26.13 18:30	
Bromochloromethane	<0.112	25.0	23.6	94	23.2	93	71-136	2	20	ug/L	06.26.13 18:30	
Bromodichloromethane	<0.124	25.0	25.3	101	25.6	102	71-135	1	20	ug/L	06.26.13 18:30	
Bromoform	<0.159	25.0	24.9	100	25.3	101	75-124	2	20	ug/L	06.26.13 18:30	
Bromomethane	<0.0970	25.0	22.8	91	22.7	91	46-151	0	20	ug/L	06.26.13 18:30	
Carbon tetrachloride	<0.0990	25.0	24.8	99	22.7	91	72-131	9	20	ug/L	06.26.13 18:30	
Chlorobenzene	<0.105	25.0	23.4	94	23.3	93	83-113	0	20	ug/L	06.26.13 18:30	
Chlorodibromomethane	<0.177	25.0	26.1	104	26.4	106	75-135	1	20	ug/L	06.26.13 18:30	
Chloroethane	<0.0420	25.0	22.4	90	22.0	88	42-159	2	20	ug/L	06.26.13 18:30	
Chloroform	<0.172	25.0	23.9	96	23.8	95	72-126	0	20	ug/L	06.26.13 18:30	
Chloromethane	<0.0850	25.0	22.2	89	21.5	86	55-133	3	20	ug/L	06.26.13 18:30	
cis-1,2-Dichloroethene	<0.114	25.0	23.0	92	22.6	90	75-128	2	20	ug/L	06.26.13 18:30	
cis-1,3-Dichloropropene	<0.100	25.0	25.2	101	25.5	102	12-95	1	20	ug/L	06.26.13 18:30	X
Dichlorodifluoromethane	<0.0670	25.0	24.6	98	23.9	96	43-147	3	20	ug/L	06.26.13 18:30	
Ethanol	<3.00	1000	897	90	919	92	42-166	2	20	ug/L	06.26.13 18:30	
Ethylbenzene	<0.0920	25.0	24.3	97	24.5	98	79-120	1	20	ug/L	06.26.13 18:30	
Isopropyl ether	1.38	25.0	25.3	96	25.3	96	59-141	0	20	ug/L	06.26.13 18:30	
Isopropylbenzene	<0.0980	25.0	24.5	98	24.6	98	73-121	0	20	ug/L	06.26.13 18:30	
Methyl tert-butyl ether (MTBE)	8.81	50.0	56.6	96	54.9	92	24-173	3	20	ug/L	06.26.13 18:30	
Methylene Chloride	<0.190	25.0	24.8	99	24.9	100	51-144	0	20	ug/L	06.26.13 18:30	
Naphthalene	<0.0940	25.0	24.1	96	24.9	100	64-136	3	20	ug/L	06.26.13 18:30	
n-Butylbenzene	<0.0600	25.0	24.2	97	24.9	100	70-126	3	20	ug/L	06.26.13 18:30	
n-Propylbenzene	<0.0650	25.0	24.1	96	24.2	97	72-121	0	20	ug/L	06.26.13 18:30	
sec-Butylbenzene	<0.0920	25.0	23.6	94	23.7	95	75-119	0	20	ug/L	06.26.13 18:30	
Styrene	<0.0740	25.0	23.5	94	23.6	94	80-123	0	20	ug/L	06.26.13 18:30	

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **VOCs by GC/MS by SM6200B** Prep Method: SM6200B_PREP

Seq Number: 917159 Matrix: Ground Water Date Prep: 06.26.13

Parent Sample Id: 465523-007 MS Sample Id: 465523-007 S MSD Sample Id: 465523-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
tert-Butylbenzene	<0.0890	25.0	24.3	97	24.2	97	77-124	0	20	ug/L	06.26.13 18:30	
Tetrachloroethene (PCE)	<0.0540	25.0	23.8	95	24.3	97	72-118	2	20	ug/L	06.26.13 18:30	
Toluene	<0.0570	25.0	24.2	97	24.5	98	56-144	1	20	ug/L	06.26.13 18:30	
trans-1,2-Dichloroethene	<0.188	25.0	23.0	92	22.9	92	55-144	0	20	ug/L	06.26.13 18:30	
trans-1,3-Dichloropropene	<0.110	25.0	25.7	103	26.2	105	10-150	2	20	ug/L	06.26.13 18:30	
Trichloroethene	<0.139	25.0	24.2	97	24.0	96	72-116	1	20	ug/L	06.26.13 18:30	
Trichlorofluoromethane	<0.0540	25.0	24.6	98	24.3	97	48-152	1	20	ug/L	06.26.13 18:30	
Vinyl Acetate	<0.720	25.0	23.8	95	24.1	96	70-130	1	20	ug/L	06.26.13 18:30	
Vinyl Chloride	<0.0810	25.0	22.6	90	22.3	89	56-141	1	20	ug/L	06.26.13 18:30	
m,p-Xylenes	<0.176	50.0	46.6	93	47.7	95	80-119	2	20	ug/L	06.26.13 18:30	
o-Xylene	<0.122	25.0	23.4	94	23.5	94	77-125	0	20	ug/L	06.26.13 18:30	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	108		105		53-159	%	06.26.13 18:30
4-Bromofluorobenzene	101		101		30-186	%	06.26.13 18:30
Toluene-D8	101		102		70-130	%	06.26.13 18:30

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5035

Seq Number: 916748 Matrix: Solid Date Prep: 06.20.13

MB Sample Id: 640013-1-BLK LCS Sample Id: 640013-1-BKS LCSD Sample Id: 640013-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.00075	0.050	0.059	118	0.056	112	75-145	5	20	mg/kg	06.20.13 09:05	
1,1,2,2-Tetrachloroethane	<0.0012	0.050	0.049	98	0.044	88	78-120	11	20	mg/kg	06.20.13 09:05	
1,1,2-Trichloroethane	<0.00067	0.050	0.050	100	0.046	92	81-115	8	20	mg/kg	06.20.13 09:05	
1,1-Dichloroethane	<0.00080	0.050	0.052	104	0.054	108	73-131	4	20	mg/kg	06.20.13 09:05	
1,1-Dichloroethene	<0.0012	0.050	0.056	112	0.057	114	67-144	2	20	mg/kg	06.20.13 09:05	
1,1-Dichloropropene	<0.00054	0.050	0.058	116	0.055	110	83-141	5	20	mg/kg	06.20.13 09:05	
1,2,3-Trichlorobenzene	<0.00057	0.050	0.055	110	0.052	104	59-168	6	20	mg/kg	06.20.13 09:05	
1,2,3-Trichloropropane	<0.0016	0.050	0.053	106	0.050	100	73-129	6	20	mg/kg	06.20.13 09:05	
1,2,4-Trichlorobenzene	<0.00087	0.050	0.058	116	0.053	106	61-170	9	20	mg/kg	06.20.13 09:05	
1,2,4-Trimethylbenzene	<0.00072	0.050	0.055	110	0.052	104	73-145	6	20	mg/kg	06.20.13 09:05	
1,2-Dibromoethane (EDB)	<0.00086	0.050	0.056	112	0.047	94	81-121	17	20	mg/kg	06.20.13 09:05	
1,2-Dichlorobenzene	<0.0013	0.050	0.053	106	0.049	98	70-146	8	20	mg/kg	06.20.13 09:05	
1,2-Dichloroethane	<0.00060	0.050	0.055	110	0.052	104	63-150	6	20	mg/kg	06.20.13 09:05	
1,2-Dichloropropane	<0.00093	0.050	0.048	96	0.046	92	76-121	4	20	mg/kg	06.20.13 09:05	
1,3,5-Trimethylbenzene	<0.00081	0.050	0.058	116	0.054	108	69-152	7	20	mg/kg	06.20.13 09:05	
1,3-Dichlorobenzene	<0.0010	0.050	0.056	112	0.052	104	73-145	7	20	mg/kg	06.20.13 09:05	
1,3-Dichloropropane	<0.00069	0.050	0.058	116	0.052	104	82-117	11	20	mg/kg	06.20.13 09:05	
1,4-Dichlorobenzene	<0.00068	0.050	0.058	116	0.051	102	74-143	13	20	mg/kg	06.20.13 09:05	
2,2-Dichloropropane	<0.00060	0.050	0.060	120	0.058	116	67-153	3	20	mg/kg	06.20.13 09:05	
2-Butanone (MEK)	<0.0023	0.10	0.12	120	0.11	110	44-158	9	20	mg/kg	06.20.13 09:05	
2-Chlorotoluene	<0.00071	0.050	0.058	116	0.050	100	74-143	15	20	mg/kg	06.20.13 09:05	
2-Hexanone	<0.0011	0.10	0.10	100	0.11	110	59-154	10	20	mg/kg	06.20.13 09:05	
4-Chlorotoluene	<0.00055	0.050	0.056	112	0.052	104	76-140	7	20	mg/kg	06.20.13 09:05	
4-Isopropyltoluene	<0.00080	0.050	0.058	116	0.057	114	50-173	2	20	mg/kg	06.20.13 09:05	
4-Methyl-2-pentanone (MIBK)	<0.0032	0.10	0.11	110	0.11	110	65-132	0	20	mg/kg	06.20.13 09:05	
Acetone	<0.0069	0.10	0.11	110	0.10	100	43-163	10	20	mg/kg	06.20.13 09:05	
Benzene	<0.00051	0.050	0.053	106	0.049	98	82-121	8	20	mg/kg	06.20.13 09:05	
Bromobenzene	<0.00085	0.050	0.050	100	0.047	94	83-120	6	20	mg/kg	06.20.13 09:05	
Bromochloromethane	<0.0010	0.050	0.053	106	0.055	110	79-126	4	20	mg/kg	06.20.13 09:05	
Bromodichloromethane	<0.00050	0.050	0.056	112	0.052	104	80-135	7	20	mg/kg	06.20.13 09:05	
Bromoform	<0.00096	0.050	0.054	108	0.053	106	71-135	2	20	mg/kg	06.20.13 09:05	
Bromomethane	<0.0025	0.050	0.059	118	0.054	108	51-149	9	20	mg/kg	06.20.13 09:05	
Carbon tetrachloride	<0.00074	0.050	0.056	112	0.055	110	70-156	2	20	mg/kg	06.20.13 09:05	
Chlorobenzene	<0.00058	0.050	0.053	106	0.051	102	76-131	4	20	mg/kg	06.20.13 09:05	
Chlorodibromomethane	<0.00099	0.050	0.057	114	0.054	108	81-136	5	20	mg/kg	06.20.13 09:05	
Chloroethane	<0.0024	0.050	0.048	96	0.050	100	64-131	4	20	mg/kg	06.20.13 09:05	
Chloroform	<0.00074	0.050	0.059	118	0.050	100	78-125	17	20	mg/kg	06.20.13 09:05	
Chloromethane	<0.0023	0.050	0.051	102	0.051	102	59-127	0	20	mg/kg	06.20.13 09:05	
cis-1,2-Dichloroethene	<0.00066	0.050	0.048	96	0.052	104	80-123	8	20	mg/kg	06.20.13 09:05	
cis-1,3-Dichloropropene	<0.00054	0.050	0.059	118	0.053	106	81-123	11	20	mg/kg	06.20.13 09:05	
Dichlorodifluoromethane	<0.0012	0.050	0.046	92	0.052	104	33-161	12	20	mg/kg	06.20.13 09:05	
Ethanol	<0.028	2.0	2.0	100	1.9	95	56-147	5	20	mg/kg	06.20.13 09:05	
Ethylbenzene	<0.00057	0.050	0.059	118	0.054	108	84-129	9	20	mg/kg	06.20.13 09:05	
Isopropyl Ether	<0.0013	0.050	0.056	112	0.057	114	74-125	2	20	mg/kg	06.20.13 09:05	
Isopropylbenzene	<0.00076	0.050	0.054	108	0.051	102	65-153	6	20	mg/kg	06.20.13 09:05	
m,p-Xylenes	<0.00121	0.100	0.113	113	0.104	104	75-141	8	20	mg/kg	06.20.13 09:05	
Methyl tert-butyl ether	<0.00069	0.10	0.11	110	0.11	110	70-131	0	20	mg/kg	06.20.13 09:05	
Methylene chloride	<0.0022	0.050	0.067	134	0.068	136	65-137	1	20	mg/kg	06.20.13 09:05	
Naphthalene	<0.0013	0.050	0.059	118	0.056	112	68-151	5	20	mg/kg	06.20.13 09:05	
n-Butylbenzene	<0.00088	0.050	0.060	120	0.056	112	43-199	7	20	mg/kg	06.20.13 09:05	
n-Propylbenzene	<0.00078	0.050	0.055	110	0.050	100	60-161	10	20	mg/kg	06.20.13 09:05	
o-Xylene	<0.000716	0.0500	0.0584	117	0.0505	101	73-141	15	20	mg/kg	06.20.13 09:05	

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5035

Seq Number: 916748 Matrix: Solid Date Prep: 06.20.13

MB Sample Id: 640013-1-BLK LCS Sample Id: 640013-1-BKS LCSD Sample Id: 640013-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
sec-Butylbenzene	<0.00066	0.050	0.056	112	0.051	102	44-179	9	20	mg/kg	06.20.13 09:05	
Styrene	<0.00074	0.050	0.056	112	0.052	104	82-129	7	20	mg/kg	06.20.13 09:05	
tert-Butylbenzene	<0.00083	0.050	0.056	112	0.052	104	56-163	7	20	mg/kg	06.20.13 09:05	
Tetrachloroethene	<0.0010	0.050	0.055	110	0.049	98	78-144	12	20	mg/kg	06.20.13 09:05	
Toluene	<0.00059	0.050	0.054	108	0.049	98	86-121	10	20	mg/kg	06.20.13 09:05	
trans-1,2-Dichloroethene	<0.00078	0.050	0.055	110	0.050	100	72-132	10	20	mg/kg	06.20.13 09:05	
trans-1,3-Dichloropropene	<0.00067	0.050	0.059	118	0.052	104	82-132	13	20	mg/kg	06.20.13 09:05	
Trichloroethene	<0.00071	0.050	0.053	106	0.055	110	80-126	4	20	mg/kg	06.20.13 09:05	
Trichlorofluoromethane	<0.0035	0.050	0.059	118	0.057	114	55-155	3	20	mg/kg	06.20.13 09:05	
Vinyl acetate	<0.00072	0.050	0.056	112	0.048	96	57-146	15	20	mg/kg	06.20.13 09:05	
Vinyl chloride	<0.0020	0.050	0.051	102	0.043	86	70-130	17	20	mg/kg	06.20.13 09:05	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	98		110		102		50-150	%	06.20.13 09:05
4-Bromofluorobenzene	98		99		92		57-158	%	06.20.13 09:05
Toluene-D8	95		100		92		50-150	%	06.20.13 09:05

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B

Seq Number: 916874 Matrix: Water Date Prep: 06.22.13

MB Sample Id: 640106-1-BLK LCS Sample Id: 640106-1-BKS LCSD Sample Id: 640106-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.160	50.0	59.3	119	64.7	129	65-130	9	20	ug/L	06.22.13 09:24	
1,1,2,2-Tetrachloroethane	<0.180	50.0	46.8	94	41.7	83	65-130	12	20	ug/L	06.22.13 09:24	
1,1,2-Trichloroethane	<0.250	50.0	49.9	100	46.9	94	75-125	6	20	ug/L	06.22.13 09:24	
1,1-Dichloroethane	<0.110	50.0	49.0	98	49.1	98	70-135	0	20	ug/L	06.22.13 09:24	
1,1-Dichloroethene	<0.200	50.0	45.1	90	51.3	103	70-130	13	20	ug/L	06.22.13 09:24	
1,1-Dichloropropene	<0.100	50.0	57.3	115	56.1	112	75-130	2	20	ug/L	06.22.13 09:24	
1,2,3-Trichlorobenzene	<0.250	50.0	67.2	134	64.6	129	55-140	4	20	ug/L	06.22.13 09:24	
1,2,3-Trichloropropane	<0.210	50.0	54.4	109	45.5	91	75-125	18	20	ug/L	06.22.13 09:24	
1,2,4-Trichlorobenzene	<0.170	50.0	62.1	124	56.3	113	65-135	10	20	ug/L	06.22.13 09:24	
1,2,4-Trimethylbenzene	<0.140	50.0	57.7	115	49.9	100	75-130	14	20	ug/L	06.22.13 09:24	
1,2-Dibromoethane (EDB)	<0.180	50.0	56.0	112	50.8	102	80-120	10	20	ug/L	06.22.13 09:24	
1,2-Dichlorobenzene	<0.140	50.0	56.5	113	52.3	105	70-120	8	20	ug/L	06.22.13 09:24	
1,2-Dichloroethane	<0.180	50.0	62.1	124	62.0	124	70-130	0	20	ug/L	06.22.13 09:24	
1,2-Dichloropropane	<0.150	50.0	41.9	84	44.5	89	75-125	6	20	ug/L	06.22.13 09:24	
1,3,5-Trimethylbenzene	<0.170	50.0	58.5	117	51.7	103	75-130	12	20	ug/L	06.22.13 09:24	
1,3-Dichlorobenzene	<0.170	50.0	57.2	114	50.6	101	75-125	12	20	ug/L	06.22.13 09:24	
1,3-Dichloropropane	<0.190	50.0	49.7	99	49.1	98	75-125	1	20	ug/L	06.22.13 09:24	
1,4-Dichlorobenzene	<0.170	50.0	55.8	112	51.6	103	75-125	8	20	ug/L	06.22.13 09:24	
2,2-Dichloropropane	<0.210	50.0	64.6	129	63.2	126	70-130	2	20	ug/L	06.22.13 09:24	
2-Butanone (MEK)	<0.280	100	100	100	94.0	94	30-150	6	20	ug/L	06.22.13 09:24	
2-Chlorotoluene	<0.190	50.0	52.5	105	47.1	94	75-125	11	20	ug/L	06.22.13 09:24	
2-Hexanone	<0.320	100	99.4	99	96.0	96	55-130	3	20	ug/L	06.22.13 09:24	
4-Chlorotoluene	<0.130	50.0	54.3	109	48.7	97	75-130	11	20	ug/L	06.22.13 09:24	
4-Isopropyltoluene	<0.130	50.0	60.6	121	54.3	109	75-130	11	20	ug/L	06.22.13 09:24	
4-Methyl-2-pentanone (MIBK)	<0.260	100	96.3	96	95.5	96	60-135	1	20	ug/L	06.22.13 09:24	
Acetone	<0.350	100	106	106	102	102	40-140	4	20	ug/L	06.22.13 09:24	
Benzene	<0.160	50.0	50.5	101	50.2	100	80-120	1	20	ug/L	06.22.13 09:24	
Bromobenzene	<0.210	50.0	48.8	98	43.6	87	75-125	11	20	ug/L	06.22.13 09:24	
Bromochloromethane	<0.200	50.0	45.9	92	43.6	87	65-130	5	20	ug/L	06.22.13 09:24	
Bromodichloromethane	<0.250	50.0	56.7	113	58.8	118	75-120	4	20	ug/L	06.22.13 09:24	
Bromoform	<0.170	50.0	57.6	115	48.8	98	70-130	17	20	ug/L	06.22.13 09:24	
Bromomethane	<0.250	50.0	55.6	111	52.8	106	30-145	5	20	ug/L	06.22.13 09:24	
Carbon tetrachloride	<0.330	50.0	62.6	125	61.1	122	65-140	2	20	ug/L	06.22.13 09:24	
Chlorobenzene	<0.150	50.0	55.4	111	54.1	108	80-120	2	20	ug/L	06.22.13 09:24	
Chlorodibromomethane	<0.150	50.0	62.6	125	60.2	120	60-135	4	20	ug/L	06.22.13 09:24	
Chloroethane	<0.260	50.0	46.4	93	49.3	99	60-135	6	20	ug/L	06.22.13 09:24	
Chloroform	<0.160	50.0	59.3	119	57.7	115	65-135	3	20	ug/L	06.22.13 09:24	
Chloromethane	<0.250	50.0	48.3	97	48.4	97	40-125	0	20	ug/L	06.22.13 09:24	
cis-1,2-Dichloroethene	<0.210	50.0	53.0	106	45.6	91	70-125	15	20	ug/L	06.22.13 09:24	
cis-1,3-Dichloropropene	<0.100	50.0	52.6	105	51.0	102	70-130	3	20	ug/L	06.22.13 09:24	
Dichlorodifluoromethane	<0.220	50.0	61.2	122	60.7	121	30-155	1	20	ug/L	06.22.13 09:24	
Ethanol	<8.00	2000	1800	90	1800	90	65-135	0	20	ug/L	06.22.13 09:24	
Ethylbenzene	<0.190	50.0	56.5	113	56.5	113	75-125	0	20	ug/L	06.22.13 09:24	
Isopropyl ether	<0.0800	50.0	47.6	95	46.6	93	65-135	2	20	ug/L	06.22.13 09:24	
Isopropylbenzene	<0.150	50.0	54.6	109	50.3	101	75-125	8	20	ug/L	06.22.13 09:24	
m,p-Xylenes	<0.510	100	109	109	107	107	75-130	2	20	ug/L	06.22.13 09:24	
Methyl tert-butyl ether	<0.180	100	119	119	117	117	65-125	2	20	ug/L	06.22.13 09:24	
Methylene chloride	<0.420	50.0	59.8	120	59.8	120	55-140	0	20	ug/L	06.22.13 09:24	
Naphthalene	<0.220	50.0	64.6	129	55.3	111	55-140	16	20	ug/L	06.22.13 09:24	
n-Butylbenzene	<0.170	50.0	56.1	112	50.2	100	70-130	11	20	ug/L	06.22.13 09:24	
n-Propylbenzene	<0.180	50.0	52.2	104	48.6	97	70-130	7	20	ug/L	06.22.13 09:24	
o-Xylene	<0.200	50.0	50.7	101	53.7	107	80-120	6	20	ug/L	06.22.13 09:24	

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B

Seq Number: 916874 Matrix: Water Date Prep: 06.22.13

MB Sample Id: 640106-1-BLK LCS Sample Id: 640106-1-BKS LCSD Sample Id: 640106-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
sec-Butylbenzene	<0.210	50.0	54.0	108	49.0	98	70-125	10	20	ug/L	06.22.13 09:24	
Styrene	<0.180	50.0	56.6	113	55.0	110	65-135	3	20	ug/L	06.22.13 09:24	
tert-Butylbenzene	<0.180	50.0	58.8	118	54.8	110	70-130	7	20	ug/L	06.22.13 09:24	
Tetrachloroethene	<0.160	50.0	58.8	118	59.6	119	45-150	1	20	ug/L	06.22.13 09:24	
Toluene	<0.140	50.0	51.1	102	52.6	105	75-120	3	20	ug/L	06.22.13 09:24	
trans-1,2-Dichloroethene	<0.210	50.0	54.9	110	49.4	99	60-140	11	20	ug/L	06.22.13 09:24	
trans-1,3-Dichloropropene	<0.110	50.0	59.6	119	55.9	112	55-140	6	20	ug/L	06.22.13 09:24	
Trichloroethene	<0.190	50.0	51.9	104	58.8	118	70-125	12	20	ug/L	06.22.13 09:24	
Trichlorofluoromethane	<0.530	50.0	63.4	127	58.8	118	60-145	8	20	ug/L	06.22.13 09:24	
Vinyl acetate	<0.720	50.0	55.2	110	52.9	106	65-135	4	20	ug/L	06.22.13 09:24	
Vinyl chloride	<0.190	50.0	50.1	100	47.0	94	50-145	6	20	ug/L	06.22.13 09:24	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	116		123		118		53-159	%	06.22.13 09:24
4-Bromofluorobenzene	107		101		93		30-186	%	06.22.13 09:24
Toluene-D8	94		95		98		70-130	%	06.22.13 09:24

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Seq Number: 917027 Matrix: Water Date Prep: 06.25.13

MB Sample Id: 640192-1-BLK LCS Sample Id: 640192-1-BKS LCSD Sample Id: 640192-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.160	50.0	54.8	110	53.8	108	65-130	2	20	ug/L	06.25.13 07:29	
1,1,2,2-Tetrachloroethane	<0.180	50.0	44.7	89	44.1	88	65-130	1	20	ug/L	06.25.13 07:29	
1,1,2-Trichloroethane	<0.250	50.0	46.7	93	46.2	92	75-125	1	20	ug/L	06.25.13 07:29	
1,1-Dichloroethane	<0.110	50.0	48.2	96	47.6	95	70-135	1	20	ug/L	06.25.13 07:29	
1,1-Dichloroethene	<0.200	50.0	52.6	105	51.4	103	70-130	2	20	ug/L	06.25.13 07:29	
1,1-Dichloropropene	<0.100	50.0	51.6	103	50.8	102	75-130	2	20	ug/L	06.25.13 07:29	
1,2,3-Trichlorobenzene	<0.250	50.0	52.3	105	51.6	103	55-140	1	20	ug/L	06.25.13 07:29	
1,2,3-Trichloropropane	<0.210	50.0	47.0	94	45.7	91	75-125	3	20	ug/L	06.25.13 07:29	
1,2,4-Trichlorobenzene	<0.170	50.0	52.2	104	51.4	103	65-135	2	20	ug/L	06.25.13 07:29	
1,2,4-Trimethylbenzene	<0.140	50.0	49.7	99	48.4	97	75-130	3	20	ug/L	06.25.13 07:29	
1,2-Dibromoethane (EDB)	<0.180	50.0	51.1	102	48.8	98	80-120	5	20	ug/L	06.25.13 07:29	
1,2-Dichlorobenzene	<0.140	50.0	52.8	106	51.6	103	70-120	2	20	ug/L	06.25.13 07:29	
1,2-Dichloroethane	<0.180	50.0	47.5	95	47.3	95	70-130	0	20	ug/L	06.25.13 07:29	
1,2-Dichloropropane	<0.150	50.0	46.5	93	46.1	92	75-125	1	20	ug/L	06.25.13 07:29	
1,3,5-Trimethylbenzene	<0.170	50.0	49.9	100	48.5	97	75-130	3	20	ug/L	06.25.13 07:29	
1,3-Dichlorobenzene	<0.170	50.0	52.1	104	50.9	102	75-125	2	20	ug/L	06.25.13 07:29	
1,3-Dichloropropane	<0.190	50.0	47.0	94	46.0	92	75-125	2	20	ug/L	06.25.13 07:29	
1,4-Dichlorobenzene	<0.170	50.0	52.6	105	51.0	102	75-125	3	20	ug/L	06.25.13 07:29	
2,2-Dichloropropane	<0.210	50.0	56.8	114	56.0	112	70-130	1	20	ug/L	06.25.13 07:29	
2-Butanone (MEK)	<0.280	100	81.6	82	81.5	82	30-150	0	20	ug/L	06.25.13 07:29	
2-Chlorotoluene	<0.190	50.0	48.4	97	47.2	94	75-125	3	20	ug/L	06.25.13 07:29	
2-Hexanone	<0.320	100	84.6	85	82.2	82	55-130	3	20	ug/L	06.25.13 07:29	
4-Chlorotoluene	<0.130	50.0	52.2	104	50.8	102	75-130	3	20	ug/L	06.25.13 07:29	
4-Isopropyltoluene	<0.130	50.0	48.8	98	47.8	96	75-130	2	20	ug/L	06.25.13 07:29	
4-Methyl-2-pentanone (MIBK)	<0.260	100	87.9	88	87.3	87	60-135	1	20	ug/L	06.25.13 07:29	
Acetone	<0.350	100	72.0	72	75.7	76	40-140	5	20	ug/L	06.25.13 07:29	
Benzene	<0.160	50.0	47.7	95	47.6	95	80-120	0	20	ug/L	06.25.13 07:29	
Bromobenzene	<0.210	50.0	48.0	96	46.8	94	75-125	3	20	ug/L	06.25.13 07:29	
Bromochloromethane	<0.200	50.0	53.1	106	51.8	104	65-130	2	20	ug/L	06.25.13 07:29	
Bromodichloromethane	<0.250	50.0	49.2	98	49.2	98	75-120	0	20	ug/L	06.25.13 07:29	
Bromoform	<0.170	50.0	51.3	103	50.4	101	70-130	2	20	ug/L	06.25.13 07:29	
Bromomethane	<0.250	50.0	51.2	102	53.2	106	30-145	4	20	ug/L	06.25.13 07:29	
Carbon tetrachloride	<0.330	50.0	56.4	113	55.1	110	65-140	2	20	ug/L	06.25.13 07:29	
Chlorobenzene	<0.150	50.0	53.8	108	52.3	105	80-120	3	20	ug/L	06.25.13 07:29	
Chlorodibromomethane	<0.150	50.0	51.4	103	50.4	101	60-135	2	20	ug/L	06.25.13 07:29	
Chloroethane	<0.260	50.0	44.3	89	48.4	97	60-135	9	20	ug/L	06.25.13 07:29	
Chloroform	<0.160	50.0	49.5	99	49.4	99	65-135	0	20	ug/L	06.25.13 07:29	
Chloromethane	<0.250	50.0	45.4	91	45.1	90	40-125	1	20	ug/L	06.25.13 07:29	
cis-1,2-Dichloroethene	<0.210	50.0	51.3	103	50.6	101	70-125	1	20	ug/L	06.25.13 07:29	
cis-1,3-Dichloropropene	<0.100	50.0	50.2	100	50.1	100	70-130	0	20	ug/L	06.25.13 07:29	
Dichlorodifluoromethane	<0.220	50.0	68.9	138	69.0	138	30-155	0	20	ug/L	06.25.13 07:29	
Ethanol	<8.00	2000	1650	83	1660	83	65-135	1	20	ug/L	06.25.13 07:29	
Ethylbenzene	<0.190	50.0	50.7	101	48.7	97	75-125	4	20	ug/L	06.25.13 07:29	
Isopropyl ether	<0.0800	50.0	46.6	93	45.8	92	65-135	2	20	ug/L	06.25.13 07:29	
Isopropylbenzene	<0.150	50.0	48.6	97	47.7	95	75-125	2	20	ug/L	06.25.13 07:29	
m,p-Xylenes	<0.510	100	106	106	103	103	75-130	3	20	ug/L	06.25.13 07:29	
Methyl tert-butyl ether	<0.180	100	97.6	98	97.0	97	65-125	1	20	ug/L	06.25.13 07:29	
Methylene chloride	<0.420	50.0	49.9	100	50.4	101	55-140	1	20	ug/L	06.25.13 07:29	
Naphthalene	<0.220	50.0	50.9	102	50.2	100	55-140	1	20	ug/L	06.25.13 07:29	
n-Butylbenzene	<0.170	50.0	48.0	96	46.9	94	70-130	2	20	ug/L	06.25.13 07:29	
n-Propylbenzene	<0.180	50.0	46.8	94	45.5	91	70-130	3	20	ug/L	06.25.13 07:29	
o-Xylene	<0.200	50.0	54.6	109	53.1	106	80-120	3	20	ug/L	06.25.13 07:29	

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B

Seq Number: 917027 Matrix: Water Date Prep: 06.25.13

MB Sample Id: 640192-1-BLK LCS Sample Id: 640192-1-BKS LCSD Sample Id: 640192-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
sec-Butylbenzene	<0.210	50.0	48.3	97	46.7	93	70-125	3	20	ug/L	06.25.13 07:29	
Styrene	<0.180	50.0	54.5	109	53.3	107	65-135	2	20	ug/L	06.25.13 07:29	
tert-Butylbenzene	<0.180	50.0	48.4	97	47.0	94	70-130	3	20	ug/L	06.25.13 07:29	
Tetrachloroethene	<0.160	50.0	55.1	110	53.3	107	45-150	3	20	ug/L	06.25.13 07:29	
Toluene	<0.140	50.0	49.4	99	47.9	96	75-120	3	20	ug/L	06.25.13 07:29	
trans-1,2-Dichloroethene	<0.210	50.0	52.1	104	51.1	102	60-140	2	20	ug/L	06.25.13 07:29	
trans-1,3-Dichloropropene	<0.110	50.0	47.5	95	46.1	92	55-140	3	20	ug/L	06.25.13 07:29	
Trichloroethene	<0.190	50.0	52.8	106	51.5	103	70-125	2	20	ug/L	06.25.13 07:29	
Trichlorofluoromethane	<0.530	50.0	58.9	118	58.6	117	60-145	1	20	ug/L	06.25.13 07:29	
Vinyl acetate	<0.720	50.0	45.1	90	44.5	89	65-135	1	20	ug/L	06.25.13 07:29	
Vinyl chloride	<0.190	50.0	47.9	96	48.5	97	50-145	1	20	ug/L	06.25.13 07:29	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	94		94		94		53-159	%	06.25.13 07:29
4-Bromofluorobenzene	96		94		94		30-186	%	06.25.13 07:29
Toluene-D8	100		96		96		70-130	%	06.25.13 07:29

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5035

Seq Number: 916748 Matrix: Soil Date Prep: 06.20.13

Parent Sample Id: 465133-006 MS Sample Id: 465133-006 S MSD Sample Id: 465133-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.00095	0.063	0.068	108	0.068	108	62-137	0	20	mg/kg	06.20.13 15:49	
1,1,2,2-Tetrachloroethane	<0.0015	0.063	0.059	94	0.053	84	64-128	11	20	mg/kg	06.20.13 15:49	
1,1,2-Trichloroethane	<0.00085	0.063	0.057	90	0.055	87	61-130	4	20	mg/kg	06.20.13 15:49	
1,1-Dichloroethane	<0.0010	0.063	0.064	102	0.059	94	65-136	8	20	mg/kg	06.20.13 15:49	
1,1-Dichloroethene	<0.0015	0.063	0.058	92	0.065	103	33-158	11	20	mg/kg	06.20.13 15:49	
1,1-Dichloropropene	<0.00068	0.063	0.068	108	0.069	110	42-152	1	20	mg/kg	06.20.13 15:49	
1,2,3-Trichlorobenzene	<0.00072	0.063	0.063	100	0.058	92	48-135	8	20	mg/kg	06.20.13 15:49	
1,2,3-Trichloropropane	<0.0021	0.063	0.065	103	0.055	87	58-134	17	20	mg/kg	06.20.13 15:49	
1,2,4-Trichlorobenzene	<0.0011	0.063	0.065	103	0.059	94	43-139	10	20	mg/kg	06.20.13 15:49	
1,2,4-Trimethylbenzene	<0.00091	0.063	0.067	106	0.062	98	66-134	8	20	mg/kg	06.20.13 15:49	
1,2-Dibromoethane (EDB)	<0.0011	0.063	0.065	103	0.061	97	69-132	6	20	mg/kg	06.20.13 15:49	
1,2-Dichlorobenzene	<0.0016	0.063	0.065	103	0.059	94	71-120	10	20	mg/kg	06.20.13 15:49	
1,2-Dichloroethane	<0.00075	0.063	0.063	100	0.068	108	53-140	8	20	mg/kg	06.20.13 15:49	
1,2-Dichloropropane	<0.0012	0.063	0.054	86	0.049	78	68-126	10	20	mg/kg	06.20.13 15:49	
1,3,5-Trimethylbenzene	<0.0010	0.063	0.070	111	0.065	103	67-134	7	20	mg/kg	06.20.13 15:49	
1,3-Dichlorobenzene	<0.0013	0.063	0.069	110	0.060	95	68-127	14	20	mg/kg	06.20.13 15:49	
1,3-Dichloropropane	<0.00087	0.063	0.061	97	0.056	89	70-129	9	20	mg/kg	06.20.13 15:49	
1,4-Dichlorobenzene	<0.00086	0.063	0.071	113	0.063	100	72-118	12	20	mg/kg	06.20.13 15:49	
2,2-Dichloropropane	<0.00076	0.063	0.079	125	0.072	114	68-151	9	20	mg/kg	06.20.13 15:49	
2-Butanone (MEK)	<0.0029	0.13	0.14	108	0.12	92	42-147	15	20	mg/kg	06.20.13 15:49	
2-Chlorotoluene	<0.00089	0.063	0.069	110	0.062	98	68-127	11	20	mg/kg	06.20.13 15:49	
2-Hexanone	<0.0014	0.13	0.12	92	0.14	108	32-142	15	20	mg/kg	06.20.13 15:49	
4-Chlorotoluene	<0.00070	0.063	0.069	110	0.062	98	68-127	11	20	mg/kg	06.20.13 15:49	
4-Isopropyltoluene	<0.0010	0.063	0.075	119	0.070	111	64-135	7	20	mg/kg	06.20.13 15:49	
4-Methyl-2-pentanone (MIBK)	<0.0041	0.13	0.13	100	0.13	100	34-149	0	20	mg/kg	06.20.13 15:49	
Acetone	<0.0087	0.13	0.10	77	0.099	76	43-163	1	20	mg/kg	06.20.13 15:49	
Benzene	<0.00065	0.063	0.056	89	0.058	92	65-135	4	20	mg/kg	06.20.13 15:49	
Bromobenzene	<0.0011	0.063	0.060	95	0.056	89	67-121	7	20	mg/kg	06.20.13 15:49	
Bromochloromethane	<0.0013	0.063	0.072	114	0.061	97	66-137	17	20	mg/kg	06.20.13 15:49	
Bromodichloromethane	<0.00063	0.063	0.062	98	0.061	97	60-129	2	20	mg/kg	06.20.13 15:49	
Bromoform	<0.0012	0.063	0.069	110	0.061	97	48-147	12	20	mg/kg	06.20.13 15:49	
Bromomethane	<0.0031	0.063	0.062	98	0.059	94	42-170	5	20	mg/kg	06.20.13 15:49	
Carbon tetrachloride	<0.00094	0.063	0.072	114	0.061	97	54-148	17	20	mg/kg	06.20.13 15:49	
Chlorobenzene	<0.00073	0.063	0.065	103	0.061	97	71-117	6	20	mg/kg	06.20.13 15:49	
Chlorodibromomethane	<0.0013	0.063	0.064	102	0.063	100	59-135	2	20	mg/kg	06.20.13 15:49	
Chloroethane	<0.0031	0.063	0.064	102	0.057	90	44-166	12	20	mg/kg	06.20.13 15:49	
Chloroform	0.0020	0.063	0.059	90	0.063	97	62-127	7	20	mg/kg	06.20.13 15:49	
Chloromethane	<0.0029	0.063	0.055	87	0.049	78	34-157	12	20	mg/kg	06.20.13 15:49	
cis-1,2-Dichloroethene	<0.00084	0.063	0.053	84	0.052	83	41-155	2	20	mg/kg	06.20.13 15:49	
cis-1,3-Dichloropropene	<0.00068	0.063	0.064	102	0.060	95	63-128	6	20	mg/kg	06.20.13 15:49	
Dichlorodifluoromethane	<0.0015	0.063	0.072	114	0.060	95	16-171	18	20	mg/kg	06.20.13 15:49	
Ethanol	<0.035	2.5	2.2	88	2.1	84	23-148	5	20	mg/kg	06.20.13 15:49	
Ethylbenzene	<0.00071	0.063	0.068	108	0.067	106	65-139	1	20	mg/kg	06.20.13 15:49	
Isopropyl Ether	<0.0016	0.063	0.068	108	0.060	95	57-138	13	20	mg/kg	06.20.13 15:49	
Isopropylbenzene	<0.00096	0.063	0.068	108	0.061	97	62-133	11	20	mg/kg	06.20.13 15:49	
m,p-Xylenes	<0.00153	0.126	0.130	103	0.131	104	69-130	1	20	mg/kg	06.20.13 15:49	
Methyl tert-butyl ether	<0.00087	0.13	0.13	100	0.12	92	48-169	8	20	mg/kg	06.20.13 15:49	
Methylene chloride	0.025	0.063	0.089	102	0.083	92	17-184	7	20	mg/kg	06.20.13 15:49	
Naphthalene	0.0020	0.063	0.055	84	0.060	92	27-157	9	20	mg/kg	06.20.13 15:49	
n-Butylbenzene	<0.0011	0.063	0.075	119	0.069	110	59-136	8	20	mg/kg	06.20.13 15:49	
n-Propylbenzene	<0.00099	0.063	0.065	103	0.061	97	67-134	6	20	mg/kg	06.20.13 15:49	
o-Xylene	<0.000904	0.0631	0.0609	97	0.0637	101	71-124	4	20	mg/kg	06.20.13 15:49	

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5035

Seq Number: 916748 Matrix: Soil Date Prep: 06.20.13

Parent Sample Id: 465133-006 MS Sample Id: 465133-006 S MSD Sample Id: 465133-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
sec-Butylbenzene	<0.00083	0.063	0.068	108	0.063	100	65-131	8	20	mg/kg	06.20.13 15:49	
Styrene	<0.00094	0.063	0.065	103	0.063	100	50-143	3	20	mg/kg	06.20.13 15:49	
tert-Butylbenzene	<0.0011	0.063	0.067	106	0.063	100	67-131	6	20	mg/kg	06.20.13 15:49	
Tetrachloroethene	<0.0013	0.063	0.066	105	0.066	105	42-156	0	20	mg/kg	06.20.13 15:49	
Toluene	<0.00074	0.063	0.060	95	0.058	92	65-128	3	20	mg/kg	06.20.13 15:49	
trans-1,2-Dichloroethene	<0.00098	0.063	0.067	106	0.059	94	57-143	13	20	mg/kg	06.20.13 15:49	
trans-1,3-Dichloropropene	<0.00085	0.063	0.066	105	0.063	100	55-141	5	20	mg/kg	06.20.13 15:49	
Trichloroethene	<0.00089	0.063	0.057	90	0.056	89	39-150	2	20	mg/kg	06.20.13 15:49	
Trichlorofluoromethane	<0.0044	0.063	0.064	102	0.064	102	34-179	0	20	mg/kg	06.20.13 15:49	
Vinyl acetate	<0.00091	0.063	0.028	44	0.024	38	13-188	15	20	mg/kg	06.20.13 15:49	X
Vinyl chloride	<0.0025	0.063	0.060	95	0.049	78	40-161	20	20	mg/kg	06.20.13 15:49	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	105		113		50-150	%	06.20.13 15:49
4-Bromofluorobenzene	99		96		57-158	%	06.20.13 15:49
Toluene-D8	96		96		50-150	%	06.20.13 15:49

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B

Seq Number: 916874 Matrix: Ground Water Date Prep: 06.22.13

Parent Sample Id: 465177-007 MS Sample Id: 465177-007 S MSD Sample Id: 465177-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.160	50.0	63.6	127	58.1	116	59-138	9	20	ug/L	06.22.13 19:19	
1,1,2,2-Tetrachloroethane	<0.180	50.0	43.9	88	39.8	80	63-126	10	20	ug/L	06.22.13 19:19	
1,1,2-Trichloroethane	<0.250	50.0	46.7	93	41.0	82	72-115	13	20	ug/L	06.22.13 19:19	
1,1-Dichloroethane	<0.110	50.0	47.9	96	46.4	93	69-132	3	20	ug/L	06.22.13 19:19	
1,1-Dichloroethene	<0.200	50.0	44.1	88	44.8	90	62-131	2	20	ug/L	06.22.13 19:19	
1,1-Dichloropropene	<0.100	50.0	52.7	105	44.7	89	74-123	16	20	ug/L	06.22.13 19:19	
1,2,3-Trichlorobenzene	<0.250	50.0	57.8	116	60.4	121	48-122	4	20	ug/L	06.22.13 19:19	
1,2,3-Trichloropropane	<0.210	50.0	48.7	97	47.9	96	59-119	2	20	ug/L	06.22.13 19:19	
1,2,4-Trichlorobenzene	<0.170	50.0	55.5	111	55.9	112	34-131	1	20	ug/L	06.22.13 19:19	
1,2,4-Trimethylbenzene	<0.140	50.0	50.7	101	48.5	97	47-139	4	20	ug/L	06.22.13 19:19	
1,2-Dibromoethane (EDB)	<0.180	50.0	55.9	112	50.9	102	66-125	9	20	ug/L	06.22.13 19:19	
1,2-Dichlorobenzene	<0.140	50.0	52.5	105	51.1	102	58-124	3	20	ug/L	06.22.13 19:19	
1,2-Dichloroethane	<0.180	50.0	66.9	134	60.1	120	55-141	11	20	ug/L	06.22.13 19:19	
1,2-Dichloropropane	<0.150	50.0	42.9	86	40.2	80	78-121	6	20	ug/L	06.22.13 19:19	
1,3,5-Trimethylbenzene	<0.170	50.0	51.1	102	49.1	98	53-129	4	20	ug/L	06.22.13 19:19	
1,3-Dichlorobenzene	<0.170	50.0	51.4	103	47.2	94	62-120	9	20	ug/L	06.22.13 19:19	
1,3-Dichloropropane	<0.190	50.0	49.6	99	47.4	95	66-123	5	20	ug/L	06.22.13 19:19	
1,4-Dichlorobenzene	<0.170	50.0	52.2	104	48.5	97	64-114	7	20	ug/L	06.22.13 19:19	
2,2-Dichloropropane	<0.210	50.0	58.7	117	54.1	108	40-159	8	20	ug/L	06.22.13 19:19	
2-Butanone (MEK)	<0.280	100	89.8	90	92.2	92	50-152	3	20	ug/L	06.22.13 19:19	
2-Chlorotoluene	<0.190	50.0	48.6	97	44.2	88	60-129	9	20	ug/L	06.22.13 19:19	
2-Hexanone	<0.320	100	102	102	98.7	99	55-136	3	20	ug/L	06.22.13 19:19	
4-Chlorotoluene	<0.130	50.0	48.6	97	44.4	89	64-124	9	20	ug/L	06.22.13 19:19	
4-Isopropyltoluene	<0.130	50.0	53.2	106	47.8	96	62-121	11	20	ug/L	06.22.13 19:19	
4-Methyl-2-pentanone (MIBK)	<0.260	100	101	101	93.5	94	65-132	8	20	ug/L	06.22.13 19:19	
Acetone	<0.350	100	82.7	83	85.7	86	40-140	4	20	ug/L	06.22.13 19:19	
Benzene	<0.160	50.0	47.5	95	41.9	84	77-118	13	20	ug/L	06.22.13 19:19	
Bromobenzene	<0.210	50.0	44.4	89	42.1	84	66-121	5	20	ug/L	06.22.13 19:19	
Bromochloromethane	<0.200	50.0	52.6	105	55.9	112	64-130	6	20	ug/L	06.22.13 19:19	
Bromodichloromethane	<0.250	50.0	56.6	113	52.8	106	68-125	7	20	ug/L	06.22.13 19:19	
Bromoform	<0.170	50.0	51.8	104	53.5	107	53-112	3	20	ug/L	06.22.13 19:19	
Bromomethane	<0.250	50.0	55.6	111	47.8	96	63-137	15	20	ug/L	06.22.13 19:19	
Carbon tetrachloride	<0.330	50.0	62.7	125	62.4	125	56-138	0	20	ug/L	06.22.13 19:19	
Chlorobenzene	<0.150	50.0	56.4	113	49.7	99	71-114	13	20	ug/L	06.22.13 19:19	
Chlorodibromomethane	<0.150	50.0	60.9	122	56.8	114	53-125	7	20	ug/L	06.22.13 19:19	
Chloroethane	<0.260	50.0	48.1	96	42.9	86	60-137	11	20	ug/L	06.22.13 19:19	
Chloroform	<0.160	50.0	59.7	119	49.4	99	65-131	19	20	ug/L	06.22.13 19:19	
Chloromethane	<0.250	50.0	42.9	86	41.7	83	48-151	3	20	ug/L	06.22.13 19:19	
cis-1,2-Dichloroethene	<0.210	50.0	47.7	95	48.5	97	22-185	2	20	ug/L	06.22.13 19:19	
cis-1,3-Dichloropropene	<0.100	50.0	49.6	99	45.0	90	67-113	10	20	ug/L	06.22.13 19:19	
Dichlorodifluoromethane	<0.220	50.0	62.5	125	59.5	119	38-145	5	20	ug/L	06.22.13 19:19	
Ethanol	<8.00	2000	2060	103	2110	106	38-162	2	20	ug/L	06.22.13 19:19	
Ethylbenzene	<0.190	50.0	54.6	109	50.5	101	66-127	8	20	ug/L	06.22.13 19:19	
Isopropyl ether	<0.0800	50.0	46.9	94	44.4	89	59-148	5	20	ug/L	06.22.13 19:19	
Isopropylbenzene	<0.150	50.0	50.4	101	45.8	92	58-127	10	20	ug/L	06.22.13 19:19	
m,p-Xylenes	<0.510	100	106	106	94.3	94	65-126	12	20	ug/L	06.22.13 19:19	
Methyl tert-butyl ether	<0.180	100	119	119	121	121	58-141	2	20	ug/L	06.22.13 19:19	
Methylene chloride	<0.420	50.0	54.0	108	50.3	101	63-150	7	20	ug/L	06.22.13 19:19	
Naphthalene	<0.220	50.0	53.0	106	56.2	112	30-148	6	20	ug/L	06.22.13 19:19	
n-Butylbenzene	<0.170	50.0	46.9	94	43.6	87	63-122	7	20	ug/L	06.22.13 19:19	
n-Propylbenzene	<0.180	50.0	47.3	95	44.7	89	64-127	6	20	ug/L	06.22.13 19:19	
o-Xylene	<0.200	50.0	49.9	100	48.7	97	64-123	2	20	ug/L	06.22.13 19:19	

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B

Seq Number: 916874 Matrix: Ground Water Date Prep: 06.22.13

Parent Sample Id: 465177-007 MS Sample Id: 465177-007 S MSD Sample Id: 465177-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
sec-Butylbenzene	<0.210	50.0	48.3	97	45.3	91	59-124	6	20	ug/L	06.22.13 19:19	
Styrene	<0.180	50.0	54.1	108	48.5	97	50-133	11	20	ug/L	06.22.13 19:19	
tert-Butylbenzene	<0.180	50.0	52.0	104	50.3	101	58-125	3	20	ug/L	06.22.13 19:19	
Tetrachloroethene	<0.160	50.0	61.6	123	50.3	101	52-125	20	20	ug/L	06.22.13 19:19	
Toluene	<0.140	50.0	50.5	101	46.8	94	65-123	8	20	ug/L	06.22.13 19:19	
trans-1,2-Dichloroethene	<0.210	50.0	54.4	109	51.9	104	65-135	5	20	ug/L	06.22.13 19:19	
trans-1,3-Dichloropropene	<0.110	50.0	54.3	109	52.3	105	50-125	4	20	ug/L	06.22.13 19:19	
Trichloroethene	<0.190	50.0	45.6	91	41.2	82	65-125	10	20	ug/L	06.22.13 19:19	
Trichlorofluoromethane	<0.530	50.0	62.6	125	63.3	127	51-145	1	20	ug/L	06.22.13 19:19	
Vinyl acetate	<0.720	50.0	39.5	79	41.1	82	49-135	4	20	ug/L	06.22.13 19:19	
Vinyl chloride	<0.190	50.0	48.2	96	44.2	88	52-140	9	20	ug/L	06.22.13 19:19	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	127		116		53-159	%	06.22.13 19:19
4-Bromofluorobenzene	93		93		30-186	%	06.22.13 19:19
Toluene-D8	96		95		70-130	%	06.22.13 19:19

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B

Seq Number: 917027 Matrix: Water Date Prep: 06.25.13

Parent Sample Id: 465355-001 MS Sample Id: 465355-001 S MSD Sample Id: 465355-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.160	50.0	54.6	109	52.9	106	59-138	3	20	ug/L	06.25.13 14:39	
1,1,2,2-Tetrachloroethane	<0.180	50.0	44.7	89	45.3	91	63-126	1	20	ug/L	06.25.13 14:39	
1,1,2-Trichloroethane	<0.250	50.0	46.7	93	46.1	92	72-115	1	20	ug/L	06.25.13 14:39	
1,1-Dichloroethane	<0.110	50.0	48.4	97	46.4	93	69-132	4	20	ug/L	06.25.13 14:39	
1,1-Dichloroethene	<0.200	50.0	52.3	105	49.3	99	62-131	6	20	ug/L	06.25.13 14:39	
1,1-Dichloropropene	<0.100	50.0	51.1	102	48.3	97	74-123	6	20	ug/L	06.25.13 14:39	
1,2,3-Trichlorobenzene	<0.250	50.0	46.7	93	49.1	98	48-122	5	20	ug/L	06.25.13 14:39	
1,2,3-Trichloropropane	<0.210	50.0	47.1	94	44.3	89	59-119	6	20	ug/L	06.25.13 14:39	
1,2,4-Trichlorobenzene	<0.170	50.0	47.5	95	49.4	99	34-131	4	20	ug/L	06.25.13 14:39	
1,2,4-Trimethylbenzene	<0.140	50.0	42.0	84	40.6	81	47-139	3	20	ug/L	06.25.13 14:39	
1,2-Dibromoethane (EDB)	<0.180	50.0	50.6	101	50.4	101	66-125	0	20	ug/L	06.25.13 14:39	
1,2-Dichlorobenzene	<0.140	50.0	51.6	103	51.5	103	58-124	0	20	ug/L	06.25.13 14:39	
1,2-Dichloroethane	<0.180	50.0	47.4	95	47.4	95	55-141	0	20	ug/L	06.25.13 14:39	
1,2-Dichloropropane	<0.150	50.0	46.8	94	46.1	92	78-121	2	20	ug/L	06.25.13 14:39	
1,3,5-Trimethylbenzene	<0.170	50.0	42.2	84	40.7	81	53-129	4	20	ug/L	06.25.13 14:39	
1,3-Dichlorobenzene	<0.170	50.0	50.9	102	49.7	99	62-120	2	20	ug/L	06.25.13 14:39	
1,3-Dichloropropane	<0.190	50.0	47.1	94	46.7	93	66-123	1	20	ug/L	06.25.13 14:39	
1,4-Dichlorobenzene	<0.170	50.0	50.8	102	50.5	101	64-114	1	20	ug/L	06.25.13 14:39	
2,2-Dichloropropane	<0.210	50.0	56.1	112	53.9	108	40-159	4	20	ug/L	06.25.13 14:39	
2-Butanone (MEK)	<0.280	100	88.5	89	85.6	86	50-152	3	20	ug/L	06.25.13 14:39	
2-Chlorotoluene	<0.190	50.0	47.6	95	46.8	94	60-129	2	20	ug/L	06.25.13 14:39	
2-Hexanone	<0.320	100	83.8	84	85.1	85	55-136	2	20	ug/L	06.25.13 14:39	
4-Chlorotoluene	<0.130	50.0	50.5	101	49.9	100	64-124	1	20	ug/L	06.25.13 14:39	
4-Isopropyltoluene	<0.130	50.0	44.9	90	44.7	89	62-121	0	20	ug/L	06.25.13 14:39	
4-Methyl-2-pentanone (MIBK)	<0.260	100	88.9	89	89.1	89	65-132	0	20	ug/L	06.25.13 14:39	
Acetone	<0.350	100	78.8	79	82.7	83	40-140	5	20	ug/L	06.25.13 14:39	
Benzene	<0.160	50.0	48.3	97	46.4	93	77-118	4	20	ug/L	06.25.13 14:39	
Bromobenzene	<0.210	50.0	47.6	95	46.9	94	66-121	1	20	ug/L	06.25.13 14:39	
Bromochloromethane	<0.200	50.0	53.4	107	51.7	103	64-130	3	20	ug/L	06.25.13 14:39	
Bromodichloromethane	<0.250	50.0	48.3	97	48.2	96	68-125	0	20	ug/L	06.25.13 14:39	
Bromoform	<0.170	50.0	47.6	95	48.1	96	53-112	1	20	ug/L	06.25.13 14:39	
Bromomethane	<0.250	50.0	53.4	107	50.2	100	63-137	6	20	ug/L	06.25.13 14:39	
Carbon tetrachloride	<0.330	50.0	54.5	109	51.0	102	56-138	7	20	ug/L	06.25.13 14:39	
Chlorobenzene	<0.150	50.0	53.6	107	52.1	104	71-114	3	20	ug/L	06.25.13 14:39	
Chlorodibromomethane	<0.150	50.0	49.3	99	49.1	98	53-125	0	20	ug/L	06.25.13 14:39	
Chloroethane	<0.260	50.0	48.2	96	43.7	87	60-137	10	20	ug/L	06.25.13 14:39	
Chloroform	<0.160	50.0	51.5	103	50.0	100	65-131	3	20	ug/L	06.25.13 14:39	
Chloromethane	<0.250	50.0	49.2	98	44.4	89	48-151	10	20	ug/L	06.25.13 14:39	
cis-1,2-Dichloroethene	<0.210	50.0	52.2	104	49.8	100	22-185	5	20	ug/L	06.25.13 14:39	
cis-1,3-Dichloropropene	<0.100	50.0	48.2	96	46.5	93	67-113	4	20	ug/L	06.25.13 14:39	
Dichlorodifluoromethane	<0.220	50.0	67.0	134	63.0	126	38-145	6	20	ug/L	06.25.13 14:39	
Ethanol	<8.00	2000	1730	87	1680	84	38-162	3	20	ug/L	06.25.13 14:39	
Ethylbenzene	<0.190	50.0	48.9	98	47.4	95	66-127	3	20	ug/L	06.25.13 14:39	
Isopropyl ether	<0.0800	50.0	47.3	95	45.9	92	59-148	3	20	ug/L	06.25.13 14:39	
Isopropylbenzene	<0.150	50.0	47.3	95	46.2	92	58-127	2	20	ug/L	06.25.13 14:39	
m,p-Xylenes	<0.510	100	99.1	99	96.7	97	65-126	2	20	ug/L	06.25.13 14:39	
Methyl tert-butyl ether	<0.180	100	99.5	100	98.8	99	58-141	1	20	ug/L	06.25.13 14:39	
Methylene chloride	<0.420	50.0	48.2	96	47.2	94	63-150	2	20	ug/L	06.25.13 14:39	
Naphthalene	<0.220	50.0	46.4	93	49.2	98	30-148	6	20	ug/L	06.25.13 14:39	
n-Butylbenzene	<0.170	50.0	44.3	89	44.2	88	63-122	0	20	ug/L	06.25.13 14:39	
n-Propylbenzene	<0.180	50.0	44.9	90	44.0	88	64-127	2	20	ug/L	06.25.13 14:39	
o-Xylene	<0.200	50.0	51.4	103	49.6	99	64-123	4	20	ug/L	06.25.13 14:39	

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B

Seq Number: 917027 Matrix: Water Date Prep: 06.25.13

Parent Sample Id: 465355-001 MS Sample Id: 465355-001 S MSD Sample Id: 465355-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
sec-Butylbenzene	<0.210	50.0	45.2	90	45.1	90	59-124	0	20	ug/L	06.25.13 14:39	
Styrene	<0.180	50.0	41.9	84	39.7	79	50-133	5	20	ug/L	06.25.13 14:39	
tert-Butylbenzene	<0.180	50.0	46.5	93	46.0	92	58-125	1	20	ug/L	06.25.13 14:39	
Tetrachloroethene	<0.160	50.0	54.1	108	52.3	105	52-125	3	20	ug/L	06.25.13 14:39	
Toluene	<0.140	50.0	48.2	96	46.7	93	65-123	3	20	ug/L	06.25.13 14:39	
trans-1,2-Dichloroethene	<0.210	50.0	52.1	104	49.9	100	65-135	4	20	ug/L	06.25.13 14:39	
trans-1,3-Dichloropropene	<0.110	50.0	44.3	89	43.3	87	50-125	2	20	ug/L	06.25.13 14:39	
Trichloroethene	<0.190	50.0	52.1	104	50.5	101	65-125	3	20	ug/L	06.25.13 14:39	
Trichlorofluoromethane	<0.530	50.0	59.1	118	57.1	114	51-145	3	20	ug/L	06.25.13 14:39	
Vinyl acetate	<0.720	50.0	41.0	82	40.7	81	49-135	1	20	ug/L	06.25.13 14:39	
Vinyl chloride	<0.190	50.0	51.1	102	46.4	93	52-140	10	20	ug/L	06.25.13 14:39	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	94		94		53-159	%	06.25.13 14:39
4-Bromofluorobenzene	94		96		30-186	%	06.25.13 14:39
Toluene-D8	94		96		70-130	%	06.25.13 14:39

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **639971-1-BLK** Matrix: SOLID

Lab Sample Id: **639971-1-BLK**

Analytical Method: **Select Metals by SW-846 6010C** Prep Method: SW3050B

Tech: 4150

Analyst: 4150 Date Prep: 06.20.13 10:40

Seq Number: 916732

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	U	5.00	0.0600	mg/kg	06.20.13 16:37	U	1
Lead	7439-92-1	U	5.00	0.279	mg/kg	06.20.13 16:37	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **639993-1-BLK** Matrix: SOLID

Lab Sample Id: **639993-1-BLK**

Analytical Method: **SVOCs by SW-846 8270D** Prep Method: SW3550

Tech: BRO

Analyst: NTR Date Prep: 06.20.13 13:38

Seq Number: 916744

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2,4-Trichlorobenzene	120-82-1	U	0.333	0.0590	mg/kg	06.20.13 17:55	U	1
1,2-Dichlorobenzene	95-50-1	U	0.333	0.0540	mg/kg	06.20.13 17:55	U	1
1,2-Diphenylhydrazine	122-66-7	U	0.333	0.0367	mg/kg	06.20.13 17:55	U	1
1,3-Dichlorobenzene	541-73-1	U	0.333	0.0527	mg/kg	06.20.13 17:55	U	1
1,4-Dichlorobenzene	106-46-7	U	0.333	0.0520	mg/kg	06.20.13 17:55	U	1
2,4,6-Trichlorophenol	88-06-2	U	0.333	0.0643	mg/kg	06.20.13 17:55	U	1
2,4-Dichlorophenol	120-83-2	U	0.333	0.0423	mg/kg	06.20.13 17:55	U	1
2,4-Dimethylphenol	105-67-9	U	0.333	0.0607	mg/kg	06.20.13 17:55	U	1
2,4-Dinitrophenol	51-28-5	U	0.333	0.0537	mg/kg	06.20.13 17:55	U	1
2,4-Dinitrotoluene	121-14-2	U	0.333	0.0537	mg/kg	06.20.13 17:55	U	1
2,6-Dinitrotoluene	606-20-2	U	0.333	0.0433	mg/kg	06.20.13 17:55	U	1
2-Chloronaphthalene	91-58-7	U	0.333	0.0607	mg/kg	06.20.13 17:55	U	1
2-Chlorophenol	95-57-8	U	0.333	0.0597	mg/kg	06.20.13 17:55	U	1
2-Methylnaphthalene	91-57-6	U	0.333	0.0510	mg/kg	06.20.13 17:55	U	1
2-methylphenol	95-48-7	U	0.333	0.0467	mg/kg	06.20.13 17:55	U	1
2-Nitrophenol	88-75-5	U	0.333	0.0420	mg/kg	06.20.13 17:55	U	1
3&4-Methylphenol	15831-10-4	U	0.333	0.0987	mg/kg	06.20.13 17:55	U	1
3,3-Dichlorobenzidine	91-94-1	U	0.333	0.0487	mg/kg	06.20.13 17:55	U	1
4,6-dinitro-2-methyl phenol	534-52-1	U	0.333	0.0580	mg/kg	06.20.13 17:55	U	1
4-Bromophenyl-phenylether	101-55-3	U	0.333	0.0567	mg/kg	06.20.13 17:55	U	1
4-chloro-3-methylphenol	59-50-7	U	0.333	0.0477	mg/kg	06.20.13 17:55	U	1
4-Chloroaniline	106-47-8	U	0.333	0.0553	mg/kg	06.20.13 17:55	U	1
4-Chlorophenyl Phenyl Ether	7005-72-3	U	0.333	0.0633	mg/kg	06.20.13 17:55	U	1
4-Nitrophenol	100-02-7	U	0.333	0.0410	mg/kg	06.20.13 17:55	U	1
Acenaphthene	83-32-9	U	0.333	0.0467	mg/kg	06.20.13 17:55	U	1
Acenaphthylene	208-96-8	U	0.333	0.0567	mg/kg	06.20.13 17:55	U	1
Anthracene	120-12-7	U	0.333	0.0493	mg/kg	06.20.13 17:55	U	1
Benzo(a)anthracene	56-55-3	U	0.333	0.0540	mg/kg	06.20.13 17:55	U	1
Benzo(a)pyrene	50-32-8	U	0.333	0.0490	mg/kg	06.20.13 17:55	U	1
Benzo(b)fluoranthene	205-99-2	U	0.333	0.0543	mg/kg	06.20.13 17:55	U	1
Benzo(g,h,i)perylene	191-24-2	U	0.333	0.0550	mg/kg	06.20.13 17:55	U	1
Benzo(k)fluoranthene	207-08-9	U	0.333	0.0573	mg/kg	06.20.13 17:55	U	1
Benzoic Acid	65-85-0	U	0.333	0.0527	mg/kg	06.20.13 17:55	U	1
Benzyl Alcohol	100-51-6	U	0.333	0.0533	mg/kg	06.20.13 17:55	U	1
bis(2-chloroethoxy) methane	111-91-1	U	0.333	0.0400	mg/kg	06.20.13 17:55	U	1
bis(2-chloroethyl) ether	111-44-4	U	0.333	0.0473	mg/kg	06.20.13 17:55	U	1
bis(2-chloroisopropyl) ether	39638-32-9	U	0.333	0.0450	mg/kg	06.20.13 17:55	U	1
bis(2-ethylhexyl) phthalate	117-81-7	U	0.333	0.0540	mg/kg	06.20.13 17:55	U	1
Butylbenzylphthalate	85-68-7	U	0.333	0.0500	mg/kg	06.20.13 17:55	U	1
Chrysene	218-01-9	U	0.333	0.0443	mg/kg	06.20.13 17:55	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **639993-1-BLK** Matrix: SOLID

Lab Sample Id: **639993-1-BLK**

Analytical Method: **SVOCs by SW-846 8270D** Prep Method: SW3550

Tech: BRO

Analyst: NTR Date Prep: 06.20.13 13:38

Seq Number: 916744

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Dibenz(a,h)Anthracene	53-70-3	U	0.333	0.0647	mg/kg	06.20.13 17:55	U	1
Dibenzofuran	132-64-9	U	0.333	0.0427	mg/kg	06.20.13 17:55	U	1
Diethyl Phthalate	84-66-2	U	0.333	0.0537	mg/kg	06.20.13 17:55	U	1
Dimethyl Phthalate	131-11-3	U	0.333	0.0503	mg/kg	06.20.13 17:55	U	1
di-n-Butyl Phthalate	84-74-2	U	0.333	0.0613	mg/kg	06.20.13 17:55	U	1
di-n-Octyl Phthalate	117-84-0	U	0.333	0.0553	mg/kg	06.20.13 17:55	U	1
Fluoranthene	206-44-0	U	0.333	0.0433	mg/kg	06.20.13 17:55	U	1
Fluorene	86-73-7	U	0.333	0.0407	mg/kg	06.20.13 17:55	U	1
Hexachlorobenzene	118-74-1	U	0.333	0.0557	mg/kg	06.20.13 17:55	U	1
Hexachlorobutadiene	87-68-3	U	0.333	0.0370	mg/kg	06.20.13 17:55	U	1
Hexachlorocyclopentadiene	77-47-4	U	0.333	0.0573	mg/kg	06.20.13 17:55	U	1
Hexachloroethane	67-72-1	U	0.333	0.0517	mg/kg	06.20.13 17:55	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	U	0.333	0.0607	mg/kg	06.20.13 17:55	U	1
Isophorone	78-59-1	U	0.333	0.0343	mg/kg	06.20.13 17:55	U	1
Naphthalene	91-20-3	U	0.333	0.0533	mg/kg	06.20.13 17:55	U	1
Nitrobenzene	98-95-3	U	0.333	0.0593	mg/kg	06.20.13 17:55	U	1
N-Nitrosodi-n-Propylamine	621-64-7	U	0.333	0.0477	mg/kg	06.20.13 17:55	U	1
N-Nitrosodiphenylamine	86-30-6	U	0.333	0.0700	mg/kg	06.20.13 17:55	U	1
Pentachlorophenol	87-86-5	U	0.333	0.0603	mg/kg	06.20.13 17:55	U	1
Phenanthrene	85-01-8	U	0.333	0.0553	mg/kg	06.20.13 17:55	U	1
Phenol	108-95-2	U	0.333	0.0467	mg/kg	06.20.13 17:55	U	1
Pyrene	129-00-0	U	0.333	0.0567	mg/kg	06.20.13 17:55	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **639999-1-BLK** Matrix: SOLID

Lab Sample Id: **639999-1-BLK**

Analytical Method: **EPH by MADEP Method** Prep Method: SW3550

Tech: BRO

Analyst: NTR Date Prep: 06.20.13 12:40

Seq Number: 917187

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Unadjusted C11-C22 Aromatics	C11C22	U	6.67	6.67	mg/kg	06.26.13 00:25	U	1
Unadjusted C9-C18 Aliphatics	ALHYDRC9C1	U	3.33	3.33	mg/kg	06.26.13 09:15	U	1
Unadjusted C19-C36 Aliphatics	ALHYDRC19C	U	3.33	3.33	mg/kg	06.26.13 09:15	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640013-1-BLK** Matrix: SOLID

Lab Sample Id: **640013-1-BLK**

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5035

Tech: BAT

Analyst: MLA Date Prep: 06.20.13 07:45

Seq Number: 916748

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	0.0010	0.00075	mg/kg	06.20.13 10:54	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.0020	0.0012	mg/kg	06.20.13 10:54	U	1
1,1,2-Trichloroethane	79-00-5	U	0.0010	0.00067	mg/kg	06.20.13 10:54	U	1
1,1-Dichloroethane	75-34-3	U	0.0010	0.00080	mg/kg	06.20.13 10:54	U	1
1,1-Dichloroethene	75-35-4	U	0.0020	0.0012	mg/kg	06.20.13 10:54	U	1
1,1-Dichloropropene	563-58-6	U	0.0010	0.00054	mg/kg	06.20.13 10:54	U	1
1,2,3-Trichlorobenzene	87-61-6	U	0.0010	0.00057	mg/kg	06.20.13 10:54	U	1
1,2,3-Trichloropropane	96-18-4	U	0.0020	0.0016	mg/kg	06.20.13 10:54	U	1
1,2,4-Trichlorobenzene	120-82-1	U	0.0010	0.00087	mg/kg	06.20.13 10:54	U	1
1,2,4-Trimethylbenzene	95-63-6	U	0.0010	0.00072	mg/kg	06.20.13 10:54	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	0.0010	0.00086	mg/kg	06.20.13 10:54	U	1
1,2-Dichlorobenzene	95-50-1	U	0.0020	0.0013	mg/kg	06.20.13 10:54	U	1
1,2-Dichloroethane	107-06-2	U	0.0010	0.00060	mg/kg	06.20.13 10:54	U	1
1,2-Dichloropropane	78-87-5	U	0.0010	0.00093	mg/kg	06.20.13 10:54	U	1
1,3,5-Trimethylbenzene	108-67-8	U	0.0010	0.00081	mg/kg	06.20.13 10:54	U	1
1,3-Dichlorobenzene	541-73-1	U	0.0010	0.00100	mg/kg	06.20.13 10:54	U	1
1,3-Dichloropropane	142-28-9	U	0.0010	0.00069	mg/kg	06.20.13 10:54	U	1
1,4-Dichlorobenzene	106-46-7	U	0.0010	0.00068	mg/kg	06.20.13 10:54	U	1
2,2-Dichloropropane	594-20-7	U	0.0010	0.00060	mg/kg	06.20.13 10:54	U	1
2-Butanone (MEK)	78-93-3	U	0.010	0.0023	mg/kg	06.20.13 10:54	U	1
2-Chlorotoluene	95-49-8	U	0.0010	0.00071	mg/kg	06.20.13 10:54	U	1
2-Hexanone	591-78-6	U	0.010	0.0011	mg/kg	06.20.13 10:54	U	1
4-Chlorotoluene	106-43-4	U	0.0010	0.00055	mg/kg	06.20.13 10:54	U	1
4-Isopropyltoluene	99-87-6	U	0.0010	0.00080	mg/kg	06.20.13 10:54	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	0.010	0.0032	mg/kg	06.20.13 10:54	U	1
Acetone	67-64-1	U	0.010	0.0069	mg/kg	06.20.13 10:54	U	1
Benzene	71-43-2	U	0.0010	0.00051	mg/kg	06.20.13 10:54	U	1
Bromobenzene	108-86-1	U	0.0010	0.00085	mg/kg	06.20.13 10:54	U	1
Bromochloromethane	74-97-5	U	0.0020	0.0010	mg/kg	06.20.13 10:54	U	1
Bromodichloromethane	75-27-4	U	0.0010	0.00050	mg/kg	06.20.13 10:54	U	1
Bromoform	75-25-2	U	0.0010	0.00096	mg/kg	06.20.13 10:54	U	1
Bromomethane	74-83-9	U	0.0050	0.0025	mg/kg	06.20.13 10:54	U	1
Carbon tetrachloride	56-23-5	U	0.0010	0.00074	mg/kg	06.20.13 10:54	U	1
Chlorobenzene	108-90-7	U	0.0010	0.00058	mg/kg	06.20.13 10:54	U	1
Chlorodibromomethane	124-48-1	U	0.0010	0.00099	mg/kg	06.20.13 10:54	U	1
Chloroethane	75-00-3	U	0.0050	0.0024	mg/kg	06.20.13 10:54	U	1
Chloroform	67-66-3	U	0.0010	0.00074	mg/kg	06.20.13 10:54	U	1
Chloromethane	74-87-3	U	0.0050	0.0023	mg/kg	06.20.13 10:54	U	1
cis-1,2-Dichloroethene	156-59-2	U	0.0010	0.00066	mg/kg	06.20.13 10:54	U	1
cis-1,3-Dichloropropene	10061-01-5	U	0.0010	0.00054	mg/kg	06.20.13 10:54	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640013-1-BLK** Matrix: SOLID

Lab Sample Id: **640013-1-BLK**

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5035

Tech: BAT

Analyst: MLA Date Prep: 06.20.13 07:45

Seq Number: 916748

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Dichlorodifluoromethane	75-71-8	U	0.0020	0.0012	mg/kg	06.20.13 10:54	U	1
Ethanol	64-17-5	U	0.050	0.028	mg/kg	06.20.13 10:54	U	1
Ethylbenzene	100-41-4	U	0.0010	0.00057	mg/kg	06.20.13 10:54	U	1
Isopropyl Ether	108-20-3	U	0.0020	0.0013	mg/kg	06.20.13 10:54	U	1
Isopropylbenzene	98-82-8	U	0.0010	0.00076	mg/kg	06.20.13 10:54	U	1
m,p-Xylenes	179601-23-1	U	0.00200	0.00121	mg/kg	06.20.13 10:54	U	1
Methyl tert-butyl ether	1634-04-4	U	0.0020	0.00069	mg/kg	06.20.13 10:54	U	1
Methylene chloride	75-09-2	U	0.0050	0.0022	mg/kg	06.20.13 10:54	U	1
Naphthalene	91-20-3	U	0.0020	0.0013	mg/kg	06.20.13 10:54	U	1
n-Butylbenzene	104-51-8	U	0.0010	0.00088	mg/kg	06.20.13 10:54	U	1
n-Propylbenzene	103-65-1	U	0.0010	0.00078	mg/kg	06.20.13 10:54	U	1
o-Xylene	95-47-6	U	0.00100	0.000716	mg/kg	06.20.13 10:54	U	1
sec-Butylbenzene	135-98-8	U	0.0010	0.00066	mg/kg	06.20.13 10:54	U	1
Styrene	100-42-5	U	0.0010	0.00074	mg/kg	06.20.13 10:54	U	1
tert-Butylbenzene	98-06-6	U	0.0010	0.00083	mg/kg	06.20.13 10:54	U	1
Tetrachloroethene	127-18-4	U	0.0020	0.0010	mg/kg	06.20.13 10:54	U	1
Toluene	108-88-3	U	0.0010	0.00059	mg/kg	06.20.13 10:54	U	1
trans-1,2-Dichloroethene	156-60-5	U	0.0010	0.00078	mg/kg	06.20.13 10:54	U	1
trans-1,3-Dichloropropene	10061-02-6	U	0.0010	0.00067	mg/kg	06.20.13 10:54	U	1
Trichloroethene	79-01-6	U	0.0010	0.00071	mg/kg	06.20.13 10:54	U	1
Trichlorofluoromethane	75-69-4	U	0.0050	0.0035	mg/kg	06.20.13 10:54	U	1
Vinyl acetate	108-05-4	U	0.0050	0.00072	mg/kg	06.20.13 10:54	U	1
Vinyl chloride	75-01-4	U	0.0050	0.0020	mg/kg	06.20.13 10:54	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640027-1-BLK** Matrix: WATER

Lab Sample Id: **640027-1-BLK**

Analytical Method: **MADEP VPH REV 1.1** Prep Method: SW5030B

Tech: BAT

Analyst: MLA Date Prep: 06.20.13 08:13

Seq Number: 916782

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C5-C8 Aliphatics (Unadj.)	ALHYDRC5C8	U	15.0	15.0	ug/L	06.20.13 10:51	U	1
C9-C10 Aromatics (Unadj.)	HYDC9C10	U	5.00	5.00	ug/L	06.20.13 10:51	U	1
C9-C12 Aliphatics (Unadj.)	ALHYDRC9C1	U	15.0	15.0	ug/L	06.20.13 10:51	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640082-1-BLK** Matrix: WATER

Lab Sample Id: **640082-1-BLK**

Analytical Method: **Select Metals by SW-846 6010C** Prep Method: SW3010A

Tech: ABA

Analyst: 4150 Date Prep: 06.24.13 09:21

Seq Number: 916962

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	0.000700	0.0500	0.000300	mg/L	06.25.13 12:57	J	1
Lead	7439-92-1	U	0.0100	0.00330	mg/L	06.25.13 12:57	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640106-1-BLK** Matrix: WATER

Lab Sample Id: **640106-1-BLK**

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B

Tech: BAT

Analyst: MLA Date Prep: 06.22.13 08:09

Seq Number: 916874

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	06.22.13 11:34	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	06.22.13 11:34	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	06.22.13 11:34	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	06.22.13 11:34	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	06.22.13 11:34	U	1
1,1-Dichloropropene	563-58-6	U	1.00	0.100	ug/L	06.22.13 11:34	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	06.22.13 11:34	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.210	ug/L	06.22.13 11:34	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	06.22.13 11:34	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	06.22.13 11:34	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	06.22.13 11:34	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	06.22.13 11:34	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.22.13 11:34	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	06.22.13 11:34	U	1
1,3,5-Trimethylbenzene	108-67-8	U	1.00	0.170	ug/L	06.22.13 11:34	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	06.22.13 11:34	U	1
1,3-Dichloropropane	142-28-9	U	1.00	0.190	ug/L	06.22.13 11:34	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	06.22.13 11:34	U	1
2,2-Dichloropropane	594-20-7	U	1.00	0.210	ug/L	06.22.13 11:34	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	06.22.13 11:34	U	1
2-Chlorotoluene	95-49-8	U	1.00	0.190	ug/L	06.22.13 11:34	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	06.22.13 11:34	U	1
4-Chlorotoluene	106-43-4	U	1.00	0.130	ug/L	06.22.13 11:34	U	1
4-Isopropyltoluene	99-87-6	U	1.00	0.130	ug/L	06.22.13 11:34	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	06.22.13 11:34	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	06.22.13 11:34	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	06.22.13 11:34	U	1
Bromobenzene	108-86-1	U	1.00	0.210	ug/L	06.22.13 11:34	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	06.22.13 11:34	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	06.22.13 11:34	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	06.22.13 11:34	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	06.22.13 11:34	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	06.22.13 11:34	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	06.22.13 11:34	U	1
Chlorodibromomethane	124-48-1	U	1.00	0.150	ug/L	06.22.13 11:34	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	06.22.13 11:34	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	06.22.13 11:34	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	06.22.13 11:34	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	06.22.13 11:34	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	06.22.13 11:34	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640106-1-BLK** Matrix: WATER

Lab Sample Id: **640106-1-BLK**

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B

Tech: BAT

Analyst: MLA Date Prep: 06.22.13 08:09

Seq Number: 916874

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	06.22.13 11:34	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.22.13 11:34	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.22.13 11:34	U	1
Isopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.22.13 11:34	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	06.22.13 11:34	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.22.13 11:34	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.22.13 11:34	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	06.22.13 11:34	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.22.13 11:34	U	1
n-Butylbenzene	104-51-8	U	1.00	0.170	ug/L	06.22.13 11:34	U	1
n-Propylbenzene	103-65-1	U	1.00	0.180	ug/L	06.22.13 11:34	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.22.13 11:34	U	1
sec-Butylbenzene	135-98-8	U	1.00	0.210	ug/L	06.22.13 11:34	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	06.22.13 11:34	U	1
tert-Butylbenzene	98-06-6	U	1.00	0.180	ug/L	06.22.13 11:34	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	06.22.13 11:34	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.22.13 11:34	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	06.22.13 11:34	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	06.22.13 11:34	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	06.22.13 11:34	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	06.22.13 11:34	U	1
Vinyl acetate	108-05-4	U	1.00	0.720	ug/L	06.22.13 11:34	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	06.22.13 11:34	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640192-1-BLK** Matrix: WATER

Lab Sample Id: **640192-1-BLK**

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B

Tech: BAT

Analyst: MLA Date Prep: 06.25.13 06:41

Seq Number: 917027

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	06.25.13 09:18	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	06.25.13 09:18	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	06.25.13 09:18	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	06.25.13 09:18	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	06.25.13 09:18	U	1
1,1-Dichloropropene	563-58-6	U	1.00	0.100	ug/L	06.25.13 09:18	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	06.25.13 09:18	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.210	ug/L	06.25.13 09:18	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	06.25.13 09:18	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	06.25.13 09:18	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	06.25.13 09:18	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	06.25.13 09:18	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.25.13 09:18	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	06.25.13 09:18	U	1
1,3,5-Trimethylbenzene	108-67-8	U	1.00	0.170	ug/L	06.25.13 09:18	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	06.25.13 09:18	U	1
1,3-Dichloropropane	142-28-9	U	1.00	0.190	ug/L	06.25.13 09:18	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	06.25.13 09:18	U	1
2,2-Dichloropropane	594-20-7	U	1.00	0.210	ug/L	06.25.13 09:18	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	06.25.13 09:18	U	1
2-Chlorotoluene	95-49-8	U	1.00	0.190	ug/L	06.25.13 09:18	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	06.25.13 09:18	U	1
4-Chlorotoluene	106-43-4	U	1.00	0.130	ug/L	06.25.13 09:18	U	1
4-Isopropyltoluene	99-87-6	U	1.00	0.130	ug/L	06.25.13 09:18	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	06.25.13 09:18	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	06.25.13 09:18	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	06.25.13 09:18	U	1
Bromobenzene	108-86-1	U	1.00	0.210	ug/L	06.25.13 09:18	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	06.25.13 09:18	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	06.25.13 09:18	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	06.25.13 09:18	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	06.25.13 09:18	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	06.25.13 09:18	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	06.25.13 09:18	U	1
Chlorodibromomethane	124-48-1	U	1.00	0.150	ug/L	06.25.13 09:18	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	06.25.13 09:18	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	06.25.13 09:18	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	06.25.13 09:18	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	06.25.13 09:18	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	06.25.13 09:18	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640192-1-BLK** Matrix: WATER

Lab Sample Id: **640192-1-BLK**

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B

Tech: BAT

Analyst: MLA Date Prep: 06.25.13 06:41

Seq Number: 917027

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	06.25.13 09:18	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.25.13 09:18	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.25.13 09:18	U	1
Isopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.25.13 09:18	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	06.25.13 09:18	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.25.13 09:18	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.25.13 09:18	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	06.25.13 09:18	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.25.13 09:18	U	1
n-Butylbenzene	104-51-8	U	1.00	0.170	ug/L	06.25.13 09:18	U	1
n-Propylbenzene	103-65-1	U	1.00	0.180	ug/L	06.25.13 09:18	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.25.13 09:18	U	1
sec-Butylbenzene	135-98-8	U	1.00	0.210	ug/L	06.25.13 09:18	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	06.25.13 09:18	U	1
tert-Butylbenzene	98-06-6	U	1.00	0.180	ug/L	06.25.13 09:18	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	06.25.13 09:18	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.25.13 09:18	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	06.25.13 09:18	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	06.25.13 09:18	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	06.25.13 09:18	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	06.25.13 09:18	U	1
Vinyl acetate	108-05-4	U	1.00	0.720	ug/L	06.25.13 09:18	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	06.25.13 09:18	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640195-1-BLK** Matrix: WATER

Lab Sample Id: **640195-1-BLK**

Analytical Method: **SVOCs by EPA 625M + 10 TICs** Prep Method: SW3520C

Tech: BRO

Analyst: NTR Date Prep: 06.21.13 14:00

Seq Number: 917130

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2,4-Trichlorobenzene	120-82-1	U	10.0	1.43	ug/L	06.25.13 11:44	U	1
1,2-Dichlorobenzene	95-50-1	U	10.0	1.83	ug/L	06.25.13 11:44	U	1
1,2-Diphenylhydrazine (as Azobenzene)	122-66-7	U	50.0	4.76	ug/L	06.25.13 11:44	U	1
1,3-Dichlorobenzene	541-73-1	U	10.0	2.11	ug/L	06.25.13 11:44	U	1
1,3-Dinitrobenzene	99-65-0	U	10.0	20.1	ug/L	06.25.13 11:44	U	1
2,4,6-Trichlorophenol	88-06-2	U	10.0	1.64	ug/L	06.25.13 11:44	U	1
2,4-Dichlorophenol	120-83-2	U	10.0	1.78	ug/L	06.25.13 11:44	U	1
2,4-Dimethylphenol	105-67-9	U	10.0	1.63	ug/L	06.25.13 11:44	U	1
2,4-Dinitrophenol	51-28-5	U	50.0	7.11	ug/L	06.25.13 11:44	U	1
2,4-Dinitrotoluene	121-14-2	U	10.0	2.14	ug/L	06.25.13 11:44	U	1
2,6-Dinitrotoluene	606-20-2	U	10.0	2.72	ug/L	06.25.13 11:44	U	1
2-Chloronaphthalene	91-58-7	U	10.0	1.29	ug/L	06.25.13 11:44	U	1
2-Chlorophenol	95-57-8	U	10.0	1.83	ug/L	06.25.13 11:44	U	1
2-Methylnaphthalene	91-57-6	U	10.0	1.19	ug/L	06.25.13 11:44	U	1
2-Methylphenol	95-48-7	U	10.0	2.00	ug/L	06.25.13 11:44	U	1
2-Nitrophenol	88-75-5	U	10.0	1.95	ug/L	06.25.13 11:44	U	1
3&4-Methylphenol	15831-10-4	U	10.0	2.55	ug/L	06.25.13 11:44	U	1
3,3-Dichlorobenzidine	91-94-1	U	20.0	3.88	ug/L	06.25.13 11:44	U	1
4,6-Dinitro-2-methyl phenol	534-52-1	U	50.0	1.40	ug/L	06.25.13 11:44	U	1
4-Bromophenyl phenyl ether	101-55-3	U	10.0	2.12	ug/L	06.25.13 11:44	U	1
4-Chloro-3-methylphenol	59-50-7	U	20.0	2.18	ug/L	06.25.13 11:44	U	1
4-Chloroaniline	106-47-8	U	10.0	3.09	ug/L	06.25.13 11:44	U	1
4-Chlorophenyl phenyl ether	7005-72-3	U	10.0	1.35	ug/L	06.25.13 11:44	U	1
4-Nitrophenol	100-02-7	U	50.0	2.41	ug/L	06.25.13 11:44	U	1
Acenaphthene	83-32-9	U	10.0	1.43	ug/L	06.25.13 11:44	U	1
Acenaphthylene	208-96-8	U	10.0	1.48	ug/L	06.25.13 11:44	U	1
Anthracene	120-12-7	U	10.0	2.01	ug/L	06.25.13 11:44	U	1
Benzo(a)anthracene	56-55-3	U	10.0	1.90	ug/L	06.25.13 11:44	U	1
Benzo(a)pyrene	50-32-8	U	10.0	1.80	ug/L	06.25.13 11:44	U	1
Benzo(b)fluoranthene	205-99-2	U	10.0	1.97	ug/L	06.25.13 11:44	U	1
Benzo(g,h,i)perylene	191-24-2	U	10.0	1.97	ug/L	06.25.13 11:44	U	1
Benzo(k)fluoranthene	207-08-9	U	10.0	2.71	ug/L	06.25.13 11:44	U	1
Benzoic acid	65-85-0	U	50.0	2.21	ug/L	06.25.13 11:44	U	1
Benzyl alcohol	100-51-6	U	20.0	1.23	ug/L	06.25.13 11:44	U	1
Bis(2-chloroethoxy) methane	111-91-1	U	10.0	1.25	ug/L	06.25.13 11:44	U	1
Bis(2-chloroethyl) ether	111-44-4	U	10.0	1.78	ug/L	06.25.13 11:44	U	1
Bis(2-chloroisopropyl) ether	39638-32-9	U	10.0	1.24	ug/L	06.25.13 11:44	U	1
Bis(2-ethylhexyl) phthalate	117-81-7	U	10.0	1.20	ug/L	06.25.13 11:44	U	1
Butyl benzyl phthalate	85-68-7	U	10.0	1.82	ug/L	06.25.13 11:44	U	1
Chrysene	218-01-9	U	10.0	2.09	ug/L	06.25.13 11:44	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640195-1-BLK** Matrix: WATER

Lab Sample Id: **640195-1-BLK**

Analytical Method: **SVOCs by EPA 625M + 10 TICs** Prep Method: SW3520C

Tech: BRO

Analyst: NTR Date Prep: 06.21.13 14:00

Seq Number: 917130

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Dibenz(a,h)anthracene	53-70-3	U	10.0	1.83	ug/L	06.25.13 11:44	U	1
Dibenzofuran	132-64-9	U	10.0	1.64	ug/L	06.25.13 11:44	U	1
Diethyl phthalate	84-66-2	U	10.0	1.90	ug/L	06.25.13 11:44	U	1
Dimethyl phthalate	131-11-3	U	10.0	1.97	ug/L	06.25.13 11:44	U	1
Di-n-butyl phthalate	84-74-2	U	10.0	2.08	ug/L	06.25.13 11:44	U	1
Di-n-octyl phthalate	117-84-0	U	10.0	1.38	ug/L	06.25.13 11:44	U	1
Fluoranthene	206-44-0	U	10.0	1.81	ug/L	06.25.13 11:44	U	1
Fluorene	86-73-7	U	10.0	1.56	ug/L	06.25.13 11:44	U	1
Hexachlorobenzene	118-74-1	U	10.0	2.21	ug/L	06.25.13 11:44	U	1
Hexachlorobutadiene	87-68-3	U	10.0	1.78	ug/L	06.25.13 11:44	U	1
Hexachlorocyclopentadiene	77-47-4	U	10.0	1.87	ug/L	06.25.13 11:44	U	1
Hexachloroethane	67-72-1	U	10.0	2.38	ug/L	06.25.13 11:44	U	1
Indeno(1,2,3-c,d)pyrene	193-39-5	U	10.0	1.87	ug/L	06.25.13 11:44	U	1
Isophorone	78-59-1	U	10.0	1.41	ug/L	06.25.13 11:44	U	1
Naphthalene	91-20-3	U	10.0	1.52	ug/L	06.25.13 11:44	U	1
Nitrobenzene	98-95-3	U	10.0	1.49	ug/L	06.25.13 11:44	U	1
N-Nitrosodi-n-propylamine	621-64-7	U	10.0	1.36	ug/L	06.25.13 11:44	U	1
N-Nitrosodiphenylamine	86-30-6	U	10.0	2.50	ug/L	06.25.13 11:44	U	1
Pentachlorophenol	87-86-5	U	50.0	2.26	ug/L	06.25.13 11:44	U	1
Phenanthrene	85-01-8	U	10.0	2.04	ug/L	06.25.13 11:44	U	1
Phenol	108-95-2	U	10.0	1.76	ug/L	06.25.13 11:44	U	1
Pyrene	129-00-0	U	10.0	2.40	ug/L	06.25.13 11:44	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640202-1-BLK** Matrix: WATER

Lab Sample Id: **640202-1-BLK**

Analytical Method: **EPH by MADEP Method** Prep Method: SW3520C

Tech: BRO

Analyst: NTR Date Prep: 06.20.13 10:30

Seq Number: 917179

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Unadjusted C11-C22 Aromatics	C11C22	U	100	100	ug/L	06.25.13 20:52	U	1
Unadjusted C9-C18 Aliphatics	ALHYDRC9C1	U	100	100	ug/L	06.26.13 06:02	U	1
Unadjusted C19-C36 Aliphatics	ALHYDRC19C	U	100	100	ug/L	06.26.13 06:02	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640292-1-BLK** Matrix: WATER

Lab Sample Id: **640292-1-BLK**

Analytical Method: **VOCs by GC/MS by SM6200B** Prep Method: SM6200B_PREP

Tech: BAT

Analyst: MLA Date Prep: 06.26.13 07:23

Seq Number: 917159

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	0.500	0.0760	ug/L	06.26.13 10:33	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.500	0.0700	ug/L	06.26.13 10:33	U	1
1,1,2-Trichloroethane	79-00-5	U	0.500	0.113	ug/L	06.26.13 10:33	U	1
1,1-Dichloroethane	75-34-3	U	0.500	0.121	ug/L	06.26.13 10:33	U	1
1,1-Dichloroethene	75-35-4	U	0.500	0.104	ug/L	06.26.13 10:33	U	1
1,1-Dichloropropene	563-58-6	U	0.500	0.0600	ug/L	06.26.13 10:33	U	1
1,2,3-Trichlorobenzene	87-61-6	U	2.00	0.118	ug/L	06.26.13 10:33	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.138	ug/L	06.26.13 10:33	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.0690	ug/L	06.26.13 10:33	U	1
1,2,4-Trimethylbenzene	95-63-6	U	0.500	0.103	ug/L	06.26.13 10:33	U	1
1,2-Dibromoethane (EDB)		U	1.00	0.180	ug/L	06.26.13 10:33	U	1
1,2-Dichlorobenzene	95-50-1	U	0.500	0.0940	ug/L	06.26.13 10:33	U	1
1,2-Dichloroethane	107-06-2	U	0.500	0.0900	ug/L	06.26.13 10:33	U	1
1,2-Dichloropropane	78-87-5	U	0.500	0.122	ug/L	06.26.13 10:33	U	1
1,3,5-Trimethylbenzene	108-67-8	U	0.500	0.0870	ug/L	06.26.13 10:33	U	1
1,3-Dichlorobenzene	541-73-1	U	0.500	0.0980	ug/L	06.26.13 10:33	U	1
1,3-Dichloropropane	142-28-9	U	0.500	0.133	ug/L	06.26.13 10:33	U	1
1,4-Dichlorobenzene	106-46-7	U	0.500	0.0670	ug/L	06.26.13 10:33	U	1
2,2-Dichloropropane	594-20-7	U	0.200	0.0970	ug/L	06.26.13 10:33	U	1
2-Butanone (MEK)	78-93-3	U	20.0	0.378	ug/L	06.26.13 10:33	U	1
2-Chlorotoluene	95-49-8	U	0.200	0.0880	ug/L	06.26.13 10:33	U	1
2-Hexanone	591-78-6	U	0.400	0.352	ug/L	06.26.13 10:33	U	1
4-Chlorotoluene	106-43-4	U	0.500	0.0900	ug/L	06.26.13 10:33	U	1
4-Isopropyltoluene	99-87-6	U	0.500	0.0890	ug/L	06.26.13 10:33	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	0.400	0.253	ug/L	06.26.13 10:33	U	1
Acetone	67-64-1	U	2.00	0.352	ug/L	06.26.13 10:33	U	1
Benzene	71-43-2	U	0.500	0.119	ug/L	06.26.13 10:33	U	1
Bromobenzene	108-86-1	U	0.500	0.132	ug/L	06.26.13 10:33	U	1
Bromochloromethane	74-97-5	U	0.500	0.112	ug/L	06.26.13 10:33	U	1
Bromodichloromethane	75-27-4	U	0.500	0.124	ug/L	06.26.13 10:33	U	1
Bromoform	75-25-2	U	2.00	0.159	ug/L	06.26.13 10:33	U	1
Bromomethane	74-83-9	U	1.00	0.0970	ug/L	06.26.13 10:33	U	1
Carbon tetrachloride	56-23-5	U	0.500	0.0990	ug/L	06.26.13 10:33	U	1
Chlorobenzene	108-90-7	U	0.500	0.105	ug/L	06.26.13 10:33	U	1
Chlorodibromomethane	124-48-1	U	0.500	0.177	ug/L	06.26.13 10:33	U	1
Chloroethane	75-00-3	U	0.500	0.0420	ug/L	06.26.13 10:33	U	1
Chloroform	67-66-3	U	0.500	0.172	ug/L	06.26.13 10:33	U	1
Chloromethane	74-87-3	U	0.500	0.0850	ug/L	06.26.13 10:33	U	1
cis-1,2-Dichloroethene	156-59-2	U	0.500	0.114	ug/L	06.26.13 10:33	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	06.26.13 10:33	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640292-1-BLK** Matrix: WATER

Lab Sample Id: **640292-1-BLK**

Analytical Method: **VOCs by GC/MS by SM6200B** Prep Method: SM6200B_PREP

Tech: BAT

Analyst: MLA Date Prep: 06.26.13 07:23

Seq Number: 917159

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Dichlorodifluoromethane	75-71-8	U	1.00	0.0670	ug/L	06.26.13 10:33	U	1
Ethanol	64-17-5	U	50.0	3.00	ug/L	06.26.13 10:33	U	1
Ethylbenzene	100-41-4	U	0.500	0.0920	ug/L	06.26.13 10:33	U	1
Isopropyl ether	108-20-3	U	0.500	0.0920	ug/L	06.26.13 10:33	U	1
Isopropylbenzene	98-82-8	U	0.500	0.0980	ug/L	06.26.13 10:33	U	1
Methyl tert-butyl ether (MTBE)	1634-04-4	U	0.500	0.169	ug/L	06.26.13 10:33	U	1
Methylene Chloride	75-09-2	U	0.500	0.190	ug/L	06.26.13 10:33	U	1
Naphthalene	91-20-3	U	2.00	0.0940	ug/L	06.26.13 10:33	U	1
n-Butylbenzene	104-51-8	U	2.00	0.0600	ug/L	06.26.13 10:33	U	1
n-Propylbenzene	103-65-1	U	1.00	0.0650	ug/L	06.26.13 10:33	U	1
sec-Butylbenzene	135-98-8	U	0.500	0.0920	ug/L	06.26.13 10:33	U	1
Styrene	100-42-5	U	0.500	0.0740	ug/L	06.26.13 10:33	U	1
tert-Butylbenzene	98-06-6	U	0.500	0.0890	ug/L	06.26.13 10:33	U	1
Tetrachloroethene (PCE)	127-18-4	U	0.500	0.0540	ug/L	06.26.13 10:33	U	1
Toluene	108-88-3	U	0.500	0.0570	ug/L	06.26.13 10:33	U	1
trans-1,2-Dichloroethene	156-60-5	U	0.500	0.188	ug/L	06.26.13 10:33	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	06.26.13 10:33	U	1
Trichloroethene	79-01-6	U	0.500	0.139	ug/L	06.26.13 10:33	U	1
Trichlorofluoromethane	75-69-4	U	0.500	0.0540	ug/L	06.26.13 10:33	U	1
Vinyl Acetate	108-05-4	U	1.00	0.720	ug/L	06.26.13 10:33	U	1
Vinyl Chloride	75-01-4	U	0.500	0.0810	ug/L	06.26.13 10:33	U	1
m,p-Xylenes	179601-23-1	U	1.00	0.176	ug/L	06.26.13 10:33	U	1
o-Xylene	95-47-6	U	0.500	0.122	ug/L	06.26.13 10:33	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640310-1-BLK** Matrix: SOLID

Lab Sample Id: **640310-1-BLK**

Analytical Method: **MADEP VPH REV 1.1** Prep Method: SW5030B

Tech: BAT

Analyst: MLA Date Prep: 06.26.13 07:39

Seq Number: 917180

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Unadjusted C5-C8 Aliphatics	ALHYDRC5C8	U	0.750	0.750	mg/kg	06.26.13 11:01	U	50
Unadjusted C9-C12 Aliphatics	ALHYDRC9C1	U	0.750	0.750	mg/kg	06.26.13 11:01	U	50
Unadjusted C9-C10 Aromatics	HYDC9C10	U	0.250	0.250	mg/kg	06.26.13 11:01	U	50

WO #4 653446.3 EMB 6/22/13

Chain of Custody Record

Page 1 of 1

Mill Creek Environmental Services, Inc.
1818 Perimeter Rd.
Dawsonville, GA 30534
Phone: 706-579-1607
Fax: 706-265-4916

ENVIRONMENTAL SERVICES

Client: Apex Village	MCES Project #: AV-1301-6
Send Report To: Mill Creek Environmental Services, Inc. 1818 Perimeter Rd. Dawsonville, GA 30534	
Attn: Dan Centofanti	Acct. #:
Phone: 706-579-1607	Shipping Method:
Fax: 706-265-4916	Airbill #: 8027 1162 4586
Sampled By: David Payne	Signature: David Payne
Turnaround Time: (X) Standard ( ) Rush	

Requested Parameters

Sample ID	Date	Time	Grab (G) Comp. (C)	Matrix	VOC 8260 B	SVOC 8270	EPH	VPH	Pb + Cr (total metals)	VOC 8260B + Naphthalene	VOCs 6200B	SVOCs 625 + 10 TICs		# and type of containers: HCL	HNO_3	H_2SO_4	NaOH	MeOH	None	Remarks
MW-4, 12'	6-17-13	1450	X	S	X	X	X	X	X								2	2	2	
MW-4, 16'	6-17-13	1500	X	S	X	X	X	X	X								2	2	2	
MW-1	6-18-13	1415	X	GW						X										
MW-2	6-18-13	1440	X	GW						X										
MW-3	6-18-13	1500	X	GW						X										
MW-4	6-18-13	1520	X	GW			X	X	X		X	X								6 Ambers 5 VOAS 1 HDPE metals = 12

Comments: Shipped Sedex @ Office Max, Apex N.C.

Relinquished By: David Payne	Date: 6-18-13	Time: 1700	Received By: Amio Lagmas	Date: 6/19/13	Time: 10:00
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

2.5°C

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Mill Creek Environmental Services

Date/ Time Received: 06/19/2013 10:00:00 AM

Work Order #: 465343

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : #61

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	2.5	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6 *Custody Seals Signed and dated?	**N/A**	
#7 *Chain of Custody present?	**Yes**	
#8 Sample instructions complete on Chain of Custody?	**Yes**	
#9 Any missing/extra samples?	**No**	
#10 Chain of Custody signed when relinquished/ received?	**Yes**	
#11 Chain of Custody agrees with sample label(s)?	**Yes**	
#12 Container label(s) legible and intact?	**Yes**	
#13 Sample matrix/ properties agree with Chain of Custody?	**Yes**	
#14 Samples in proper container/ bottle?	**Yes**	
#15 Samples properly preserved?	**Yes**	
#16 Sample container(s) intact?	**Yes**	
#17 Sufficient sample amount for indicated test(s)?	**Yes**	
#18 All samples received within hold time?	**Yes**	
#19 Subcontract of sample(s)?	**No**	
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	**Yes**	
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	**Yes**	
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: DL	PH Device/Lot#: I16497-8

Checklist completed by: Dario Lagunas Date: 06/20/2013

Checklist reviewed by: Eben Buchanan Date: 06/22/2013

APPENDIX C

SOIL BORING LOG AND WELL CONSTRUCTION DIAGRAM

Mill Creek Environmental Services
1818 Perimeter Rd.
Dawsonville, Georgia 30534

ENVIRONMENTAL SERVICES

LOG OF BORING MW-4

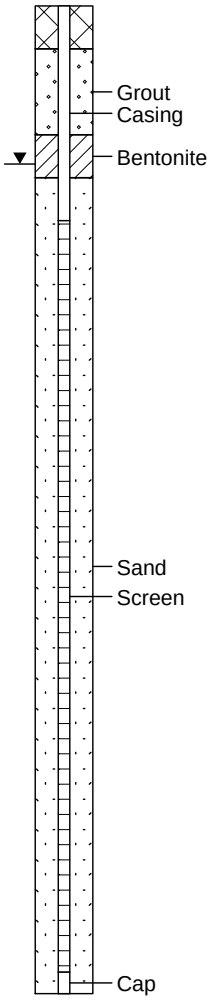
Apex Village
500-610 East Williams Street
Apex, North Carolina 37501

Date Installed	: 6-17-13	Ground Elevation	: 97.71
Logged By	: DWP	Depth to GW	: 3.68' BTOC
Drilling Company	: Quantex	Date Measured	: 6-18-13
Drilling Method	: SSA/ 6"		
TOC Elevation	: 97.41'		

Depth in Feet	Samples	Lab No.	DESCRIPTION	USCS
0			Asphalt to 4"	FL
	1		Silty Clay, Reddish brown, hard, dry.	CL
5	2		Same as above.	CL
10	3	MW-4 12'	Moist.	CL
15			Silty Sand, Dark brown, damp to moist.	SM
	4	MW-4 16'	Silty Clay, banded, Reddish/brown/pink, moist. Saturated @ 18' BGS.	CL
20	5			CL
25			Boring Terminated at 23' BGS	
30				

GRAPHIC

Well1: MW-4
Elev.:



Boring Depth: 23' Boring Diameter: 6"
Well Depth: 23' Well Diameter: 2"
Well Material: PVC Screen Slot: 0.010"
Casing: 0-5' Screen: 5-23'
Bottom Cap: 23' Sand: 4-23'
Bentonite: 3-4' Grout: 1-3'

07-16-2013 C:\apex\bor\mw-4.bor

October 31, 2013

Mr. Mark Powers
NCDENR – Raleigh Regional Office
3800 Barrett Drive
Raleigh, North Carolina 27609

Subject: **Notice of Residual Petroleum - Certified Copy**
Southern Tire and Automotive
548 E. Williams Street
Apex, North Carolina 27502
Incident Number: 39341

Dear Mr. Powers,

Mill Creek Environmental Services, Inc. (MCES) has reviewed your letter dated October 8, 2013, which included instructions for recording of the Notice of Residual Petroleum (NRP) for the subject site. MCES presented the NRP to the Wake County Register of Deeds (ROD), and has received a Certified Copy of the NRP as recorded by the Wake County ROD. We are forwarding the Certified Copy of the NRP to you as one of the requirements for No Further Action status for the subject site.

Please find the enclosed Certified Copy of the NRP and feel free to call the undersigned if you have questions or comments.

Sincerely,
MILL CREEK ENVIRONMENTAL SERVICES, INC.

David W. Payne, P.G.
Project Manager

Dan Centofanti, P.G.
Program Manager

cc: Mr. Zack Fisher/ New Falls Properties, LLC

1818 Perimeter Road • Dawsonville, GA 30534
706-579-1607 PHONE • 1-706-265-4916 FAX • www.millcreekenvironmental.com

Wake County Register of Deeds
Post Office Box 1897
Raleigh, North Carolina 27602-1897

Laura M. Riddick
Register Of Deeds

STATE OF NORTH CAROLINA
COUNTY OF WAKE

I, LAURA M. RIDDICK, REGISTER OF DEEDS IN AND FOR THE ABOVE NAMED STATE AND COUNTY, DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND EXACT COPY OF AN INSTRUMENT RECORDED IN THE WAKE COUNTY REGISTRY ON OCTOBER 25, 2013, IN BOOK 15482 PAGE 1726.

IN TESTIMONY WHEREOF, I HAVE HEREUNTO SET MY HAND AND CAUSED THE OFFICIAL SEAL OF MY SAID OFFICE TO BE AFFIXED HERETO THIS, THE 25TH DAY OF OCTOBER, 2013.

Laura M. Riddick

REGISTER OF DEEDS

DEPUTY / ASSISTANT

(SEAL)

WAKE COUNTY, NC 47
LAURA M RIDDICK
REGISTER OF DEEDS
PRESENTED & RECORDED ON
10/25/2013 AT 09:27:28

BOOK:015482 PAGE:01726 - 01730

NOTICE OF RESIDUAL PETROLEUM

Apex Village Complex, Wake County, North Carolina
(Site name)

The property that is the subject of this Notice (hereinafter referred to as the "Site") contains residual petroleum and is an Underground Storage Tank (UST) incident under North Carolina's Statutes and Regulations, which consist of N.C.G.S. 143-215.94 and regulations adopted thereunder. This Notice is part of a remedial action for the Site that has been approved by the Secretary (or his/her delegate) of the North Carolina Department of Environment and Natural Resources (or its successor in function), as authorized by N.C.G.S. Section 143B-279.9 and 143B-279.11. The North Carolina Department of Environment and Natural Resources shall hereinafter be referred to as "DENR".

NOTICE

Petroleum product was released and/or discharged at the Site. **Petroleum constituents remain on the site, but are not a danger to public health and the environment, provided that the restrictions described herein, and any other measures required by DENR pursuant to N.C.G.S. Sections 143B-279.9 and 143B-279.11, are strictly complied with.** This "Notice of Residual Petroleum" is composed of a description of the property, the location of the residual petroleum and the land use restrictions on the Site. The Notice has been approved and notarized by DENR pursuant to N.C.G.S. Sections 143B-279.9 and 143B-279.11 and has/shall be recorded at the Wake County Register of Deeds' office Book 15206 Page 1623.

Any map or plat required by DENR has been/shall be recorded at the Wake County Register of Deeds' office Book 15206, Page 1623, and has been/shall be incorporated into the Notice by this reference.

Source Property

New Falls Property, LLC of Cary, North Carolina is the owner in fee simple of all or a portion of the Site, which is located in the County of Wake, State of North Carolina, and is known and legally described as:

Return: Mill Creek Environmental Services Inc
1818 Perimeter Road
Dawsonville GA 30534

NORTH CAROLINA
Jackson COUNTY
(Name of county in which acknowledgment was taken)

I, Mary E. Druzbick, a Notary Public for said County and State, do hereby certify that Ronald Fisher personally came before me this day and acknowledged that he is _____ of _____ and acknowledged, on behalf of _____, the grantor the due execution of the foregoing instrument.

WITNESS my hand and official seal, this the 26th day of September, ~~200~~ 2013.

(Official Seal)

Mary E. Druzbick
(signature of Notary Public)
Mary E. Druzbick
(printed or typed name of Notary Public)

Notary Public

My commission expires January 14, 2015

expires: January 14, 2015

Approved for the purposes of N.C.G.S. 143B-279.11

Mark R. Powers
(signature of Regional Supervisor)
MARK R. POWERS, Regional Supervisor
(printed name of Regional Supervisor)

RALEIGH Regional Office
UST Section
Division of Waste Management
Department of Environment and Natural Resources

NORTH CAROLINA
Wake COUNTY
(Name of county in which acknowledgment was taken)

I certify that the following person(s) personally appeared before me this day, each acknowledging to me that he or she signed the foregoing document: Mark R Power *(full printed name of Regional Supervisor)*

Date: 10/7/2013

(Official Seal)

RYAN GREENE NOTARY PUBLIC WAKE COUNTY, NC

Ryan Greene
(signature of Notary Public)
Ryan Greene
(printed or typed name of Notary Public)

Notary Public

My commission

expires: 8/2/2015

Revised January 15, 2013

Zachary Fisher <zacharyfisherpm@gmail.com>
To: Ron Fisher <fishermd@me.com>
PastedGraphic-1.pdf

September 25, 2013 5:34 PM

1 Attachment, 461 KB

Being all that certain parcel or tract of and lying and being situate in White Oak Township, Wake County, North Carolina, and more particularly described as follows:

BEGINNING at an iron pipe at the intersection of the northern right of way of James Street and the southeastern right of way of Short Street and runs then with said southeastern right of way of Short Street North 34 degrees 42 minutes 04 seconds East 407.30 feet to an iron pipe, being the southeastern corner of now or formerly Julian G. Depoy; runs then with said Depoy southeastern line North 34 degrees 34 minutes 54 seconds East 100.15 feet to an iron pipe tack and continuing with said Depoy southeastern line North 34 degrees 51 minutes 52 seconds East 30.09 feet to an iron pipe, being the northeastern corner of Depoy and the southeastern corner of now or formerly Jeffrey V. Roscoe and Sandra R. Roscoe; runs then with said Roscoe southeastern line North 34 degrees 38 minutes 42 seconds East 153.66 feet to an iron pipe in the southwestern right of way of N. C. Highway 55 East (East Williams Street); runs then with said southwestern line of N. C. Highway 55 the following: South 53 degrees 38 minutes 06 seconds East 104.36 feet to a nail; South 50 degrees 57 minutes 13 seconds East 140.92 feet to a nail; South 48 degrees 20 minutes 03 seconds East 118.22 feet to a nail; and South 45 degrees 57 minutes 21 seconds East 86.77 feet to an iron pipe in the northern corner of now or formerly Julian G. Depoy; runs then with the western line of Depoy South 20 degrees 30 minutes 24 seconds West 138.51 feet to an iron pipe, being a corner of said Depoy and a northern corner of Triplett Shop Tract; runs then with the western line of said Triplett Shop Tract South 20 degrees 14 minutes 16 seconds West 188.00 feet to an iron pipe in the northern right of way of said James Street; and runs then with said northern right of way line of said James Street the following: North 86 degrees 41 minutes 26 seconds West 407.61 feet to a nail and North 89 degrees 00 minutes 48 seconds West 216.98 feet to the point and place of BEGINNING; containing 5.80 acres, more or less; and being all of the property described in deed recorded in Book 2303, Page 327, Book 2622, Page 389, Book 2734, Page 440 and Book 7830, Page 335, Wake County Registry; and being shown on Survey entitled "Existing Conditions Survey: For Apex Village Business Complex Owner: CASL II, LLC," dated September 8, 1999 by Krause Surveying Associates.

And being the identical property as that conveyed via warranty deed recorded in Book 8426, Page 2489, Wake County Registry, reference to which is hereby made.

Sent from my iPhone

BOOK:015482 PAGE:01726 - 01730

WAKE COUNTY
NORTH CAROLINA

Please retain yellow trailer page

It is part of the recorded document and must be submitted with the original for re-recording.

Laura M. Riddick
Register of Deeds

Wake County Justice Center
300 South Salisbury Street, Suite 1700
Raleigh, NC 27601

☐ New Time Stamp
☒ $25 Non-Standard Fee
☐ Additional Document Fee
☐ Additional Reference Fee

This Customer Group

____# of Time Stamps Needed

This Document

5 # of Pages CP

ENVIRONMENTAL SERVICES

November 7, 2013

Mr. Mark Powers
NCDENR – Raleigh Regional Office
3800 Barrett Drive
Raleigh, North Carolina 27609

Subject: **Public Notification Documentation**
Southern Tire and Automotive
548 E. Williams Street
Apex, North Carolina 27502
Incident Number: 39341

Dear Mr. Powers,

Mill Creek Environmental Services, Inc. (MCES) completed a Limited Site Assessment (LSA) and received a No Further Action (NFA) status from the NCDENR for the above subject property. The NFA letter dated October 8, 2013 described requirements for the validation of the NFA status which included public notification.

To fulfill the public notification requirement pursuant to 15A NCAC 2L .0409(b), a copy of the NFA letter and an explanatory cover letter were sent to the each of the twenty (20) adjoining property owners and occupants, the Mayor of Apex, NC, and the Wake County Health Department. One letter was returned to sender due to the owners no longer living at that address. Also, notices were left at two additional addresses, but no confirmation of delivery has been received.

Copies of the cover letter, NFA letter, and return receipts are enclosed. Please feel free to call the undersigned if you have any questions or comments.

Sincerely,
MILL CREEK ENVIRONMENTAL SERVICES, INC.

David W. Payne, P.G.
Project Manager

Dan Centofanti, P.G.
Program Manager

1818 Perimeter Road • Dawsonville, GA 30534
706-579-1607 PHONE • 1-706-265-4916 FAX • www.millcreekenvironmental.com

NCDENR
North Carolina Department of Environment and Natural Resources
Division of Waste Management
UST Section

Pat McCrory
Governor

Dexter R. Matthews
Director

John E. Skvarla, III
Secretary

October 8, 2013

Mr. Danny Robert
Southern tire and Automotive
548 E. Williams Street
Apex NC 27502

Re: Notice of No Further Action
15A NCAC 2L .0407(d)
Risk-based Assessment and Corrective Action
for Petroleum Underground Storage Tanks

Southern tire and Automotive
548 E. Williams Street
Apex NC 27502
Wake County
Incident Number: 39341
Risk Classification: Low
Ranking:

Dear Mr. Robert:

The Notice of Residual Petroleum received by the UST Section, Raleigh Regional Office on October 7, 2013 has been reviewed. The review indicates that groundwater contamination meets the cleanup requirements for a low-risk site but exceeds the groundwater quality standards established in Title 15A NCAC 2L .0202.

The UST Section determines that no further action is warranted for this incident. This determination shall apply unless the UST Section later finds that the discharge or release poses an unacceptable risk or a potentially unacceptable risk to human health or the environment. Pursuant to Title 15A NCAC 2L .0407(a) you have a continuing obligation to notify the Department of any changes that might affect the risk or land use classifications that have been assigned.

Be advised that as groundwater contamination exceeds the groundwater quality standards established in Title 15A NCAC 2L .0202, groundwater within the area of contamination or within the area where groundwater contamination is expected to migrate is not suitable for use as a water supply

As groundwater contamination exceeds the groundwater quality standards established in Title 15A NCAC 2L .0202, pursuant to NCGS 143B-279.9 and 143B-279.11, you must file the approved Notice of Residual Petroleum (attached) with the Register of Deeds in the county in which the release is located and submit a certified copy to the UST Section within 30 days of receipt of this letter. This No Further Action determination will not become valid until the UST Section receives a certified copy of the Notice of Residual Petroleum which is filed with the Register of Deeds.

As groundwater contamination exceeds the groundwater quality standards established in Title 15A NCAC 2L .0202, public notice in accordance with 15A NCAC 2L .0409(b) also is required. Thus,

within 30 days of receipt of this letter, a copy of the letter must be provided by certified mail, or by posting in a prominent place, if certified mail is impractical, to the local health director, the chief administrative officer of each political jurisdiction in which the contamination occurs, all property owners and occupants within or contiguous to the area containing contamination, and all property owners and occupants within or contiguous to the area where the contamination is expected to migrate. Within 60 days of receiving this no further action letter, this office must be provided with proof of receipt of the copy of the letter or of refusal by the addressee to accept delivery of the copy of the letter or with a description of the manner in which the letter was posted. This No Further Action determination will not become valid until public notice requirements are completed. Interested parties may examine the Soil Cleanup Report/ Site Closure Request by contacting this regional office and may submit comments on the site to the regional office at the address or telephone number listed below.

This No Further Action determination applies only to the subject incident; for any other incidents at the subject site, the responsible party must continue to address contamination as required.

If you have any questions regarding this notice, please contact me at the address or telephone number listed below.

Sincerely,

Mark R Powers

Mark Powers
UST Section Regional Supervisor
Raleigh Regional Office

Attachments: Notice of Residual Petroleum

cc: **Raleigh Regional Office/JFM**– 1628 Mail Service Center, Raleigh, NC 27699 **(919) 791-4200**
Wake County Environmental Services
Mill Creek Environmental Services, Inc.; 1818 Perimeter Road; Dawsonville, GA 30534

MILL CREEK ENVIRONMENTAL SERVICES

PHONE 706-579-1607 FAX 706-265-4916

TRANSMITTAL COVER SHEET

TO: Interested Party	FROM: David W. Payne, P.G.
COMPANY: --	DATE: 10-22-13
ADDRESS: --	TOTAL NO. OF PAGES INCLUDING COVER:
PHONE NUMBER: --	
RE: Southern Tire and Automotive 548 E. Williams Street Apex, NC 27502	

☐ URGENT ☐ FOR REVIEW ☐ PLEASE COMMENT ☐ PLEASE REPLY ☐ PLEASE RECYCLE

Dear Interested Party:

As required by North Carolina Department of Environment and Natural Resources (DENR) rules, we are providing you a copy of the letter for an underground storage tank formerly located on the subject property (Southern Tire and Automotive). Because this property meets the cleanup requirements for a low-risk site, the referenced property has been granted a "Notice of No Further Action" with groundwater contamination levels above the 15A NCAC 2L standards for groundwater. Please refer to the attached letter for additional information. If you have questions or comments regarding this communication, you may contact us using the information listed below.

MILL CREEK ENVIRONMENTAL SERVICES
1818 PERIMETER RD.
DAWSONVILLE, GA 30534
(706) 579-1607

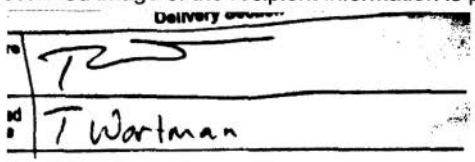
UNITED STATES POSTAL SERVICE

Date: November 5, 2013

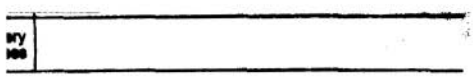
cheri kimbrell:

The following is in response to your November 5, 2013 request for delivery information on your Certified Mail™ item number 70122210000008107711. The delivery record shows that this item was delivered on October 30, 2013 at 10:13 am in FUQUAY VARINA, NC 27526. The scanned image of the recipient information is provided below.

Signature of Recipient :



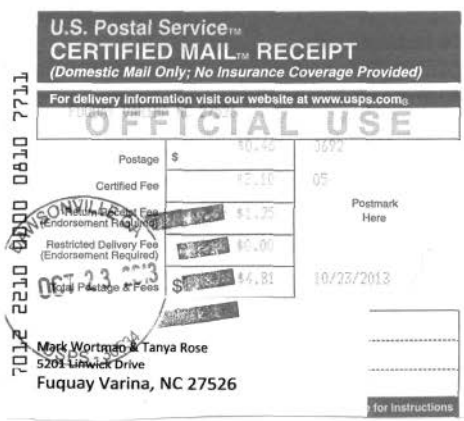
Address of Recipient :



Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,
United States Postal Service



UNITED STATES POSTAL SERVICE

Date: November 4, 2013

cheri kimbrell:

The following is in response to your October 31, 2013 request for delivery information on your Certified Mail™ item number 70122210000008107636. The delivery record shows that this item was delivered on October 28, 2013 at 2:17 pm in APEX, NC 27502. The scanned image of the recipient information is provided below.

Signature of Recipient :

Susan T. Clark

Address of Recipient :

501 Earl Goodwin rd
apex 27502

Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,
United States Postal Service

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)
For delivery information visit our website at www.usps.com®
OFFICIAL USE
Postage $
Certified Fee
Return Receipt Fee (Endorsement Required)
Restricted Delivery Fee (Endorsement Required)
Total Postage & Fees $
OCT 23 2013
DAWSONVILLE GA
USPS - 30534
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7012 2210 0000 0810 7636
Susan T. Clark
501 Earl Goodwin Road
Apex, NC 27502

UNITED STATES POSTAL SERVICE

Date: November 4, 2013

cheri kimbrell:

The following is in response to your October 31, 2013 request for delivery information on your Certified Mail™ item number 70122210000008107766. The delivery record shows that this item was delivered on October 28, 2013 at 10:56 am in APEX, NC 27502. The scanned image of the recipient information is provided below.

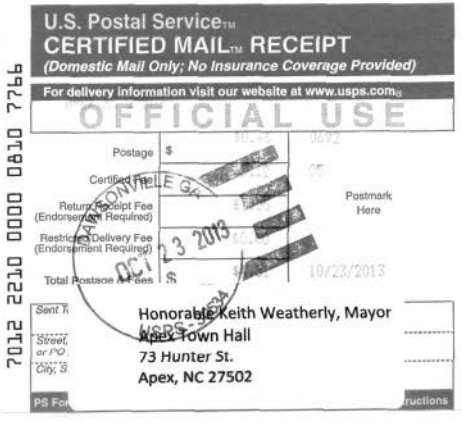
Signature of Recipient : Javier Ortiz

Address of Recipient : PO Box 250

Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,
United States Postal Service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Total Postage & Fees $
Postmark Here
10/23/2013
7012 2210 0000 0810 7766
Honorable Keith Weatherly, Mayor
Apex Town Hall
73 Hunter St.
Apex, NC 27502

UNITED STATES
POSTAL SERVICE

Date: November 4, 2013

cheri kimbrell:

The following is in response to your October 31, 2013 request for delivery information on your Certified Mail™ item number 70122210000008107759. The delivery record shows that this item was delivered on October 28, 2013 at 9:52 am in RALEIGH, NC 27610. The scanned image of the recipient information is provided below.

Signature of Recipient : Ed Walters
ED WALTERS

Address of Recipient : 1551 ROCK QUARRY RD
RALEIGH NC 27610

Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,
United States Postal Service

7012 2210 0000 0810 7759

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Sent To
Street, Apt. or PO Box
City, State

Wake County Board of Education
Services Director
1551 Rock Quarry Road
Raleigh, NC 27610

PS Form 3800, August 2006 See Reverse for Instructions

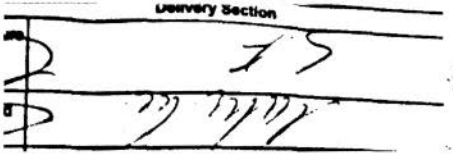
UNITED STATES
POSTAL SERVICE

Date: November 1, 2013

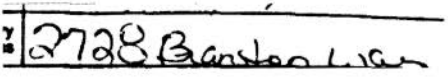
cheri kimbrell:

The following is in response to your October 31, 2013 request for delivery information on your Certified Mail™ item number 70122210000008107650. The delivery record shows that this item was delivered on October 25, 2013 at 2:09 pm in APEX, NC 27539. The scanned image of the recipient information is provided below.

Signature of Recipient :



Address of Recipient :



Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,
United States Postal Service

UNITED STATES POSTAL SERVICE

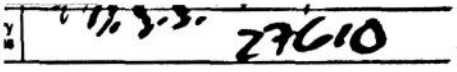
Date: November 4, 2013

cheri kimbrell:

The following is in response to your October 31, 2013 request for delivery information on your Certified Mail™ item number 70122210000008107742. The delivery record shows that this item was delivered on October 28, 2013 at 6:37 am in RALEIGH, NC 27620. The scanned image of the recipient information is provided below.

Signature of Recipient :

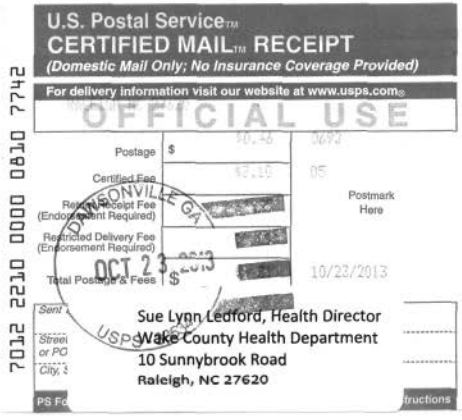
Address of Recipient :



Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,
United States Postal Service



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10/23/2013

Sue Lynn Ledford, Health Director
Wake County Health Department
10 Sunnybrook Road
Raleigh, NC 27620

7012 2210 0000 0810 7742

UNITED STATES POSTAL SERVICE

Date: November 1, 2013

cheri kimbrell:

The following is in response to your October 31, 2013 request for delivery information on your Certified Mail™ item number 70122210000008107698. The delivery record shows that this item was delivered on October 25, 2013 at 3:46 pm in KINSTON, NC 28501. The scanned image of the recipient information is provided below.

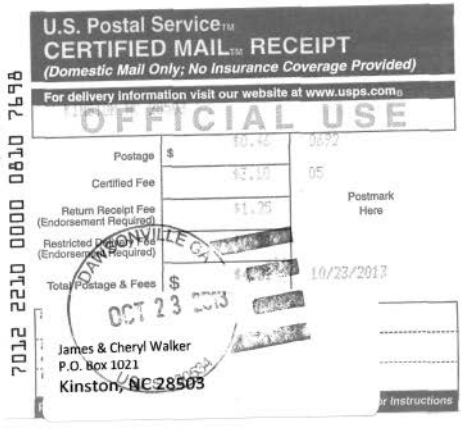
Signature of Recipient : Lea Francis

Address of Recipient : PO Box 1021 Kinston 28501

Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,
United States Postal Service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10/23/2013
OCT 23 2013
James & Cheryl Walker
P.O. Box 1021
Kinston, NC 28503
7012 2210 0000 0810 7698

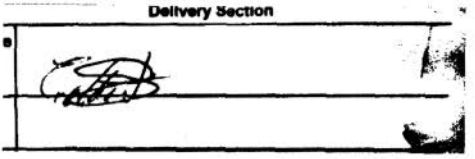
UNITED STATES
POSTAL SERVICE

Date: November 1, 2013

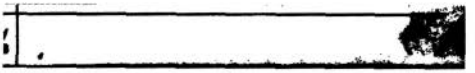
cheri kimbrell:

The following is in response to your October 31, 2013 request for delivery information on your Certified Mail™ item number 70122210000008107605. The delivery record shows that this item was delivered on October 25, 2013 at 12:00 pm in APEX, NC 27502. The scanned image of the recipient information is provided below.

Signature of Recipient :



Address of Recipient :



Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,
United States Postal Service

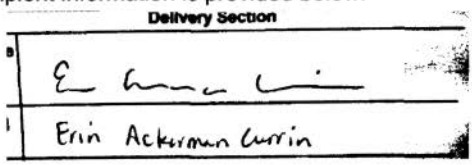
UNITED STATES POSTAL SERVICE

Date: November 1, 2013

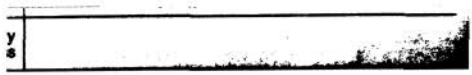
cheri kimbrell:

The following is in response to your October 31, 2013 request for delivery information on your Certified Mail™ item number 70122210000008107735. The delivery record shows that this item was delivered on October 25, 2013 at 11:16 am in APEX, NC 27502. The scanned image of the recipient information is provided below.

Signature of Recipient :



Address of Recipient :



Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,
United States Postal Service

UNITED STATES POSTAL SERVICE

Date: November 1, 2013

cheri kimbrell:

The following is in response to your October 31, 2013 request for delivery information on your Certified Mail™ item number 70122210000008107667. The delivery record shows that this item was delivered on November 1, 2013 at 9:51 am in APEX, NC 27502. The scanned image of the recipient information is provided below.

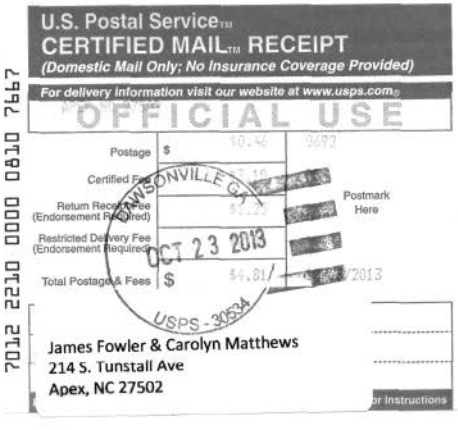
Signature of Recipient : JAMES FOWLER

Address of Recipient : 214 S. Tunstall
Apex
27502

Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,
United States Postal Service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Total Postage & Fees $
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HOWSONVILLE GA
USPS - 30534
7012 2210 0000 0810 7667
James Fowler & Carolyn Matthews
214 S. Tunstall Ave
Apex, NC 27502

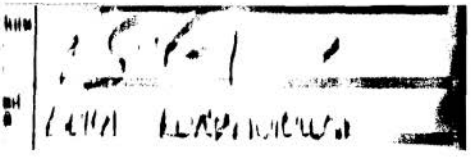
UNITED STATES POSTAL SERVICE

Date: October 31, 2013

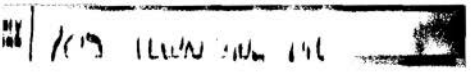
cheri kimbrell:

The following is in response to your October 31, 2013 request for delivery information on your Certified Mail™ item number 70122210000008107728. The delivery record shows that this item was delivered on October 28, 2013 at 1:14 pm in APEX, NC 27502. The scanned image of the recipient information is provided below.

Signature of Recipient :



Address of Recipient :



Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,
United States Postal Service

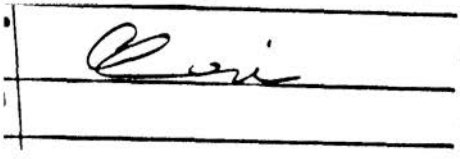
UNITED STATES POSTAL SERVICE

Date: October 31, 2013

cheri kimbrell:

The following is in response to your October 31, 2013 request for delivery information on your Certified Mail™ item number 70122210000008107582. The delivery record shows that this item was delivered on October 25, 2013 at 11:11 am in APEX, NC 27502. The scanned image of the recipient information is provided below.

Signature of Recipient :



Address of Recipient :

Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,
United States Postal Service

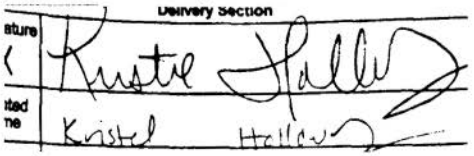
UNITED STATES POSTAL SERVICE

Date: October 31, 2013

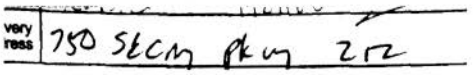
cheri kimbrell:

The following is in response to your October 31, 2013 request for delivery information on your Certified Mail™ item number 70122210000008107704. The delivery record shows that this item was delivered on October 25, 2013 at 10:46 am in CARY, NC 27511. The scanned image of the recipient information is provided below.

Signature of Recipient :



Address of Recipient :



Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,
United States Postal Service

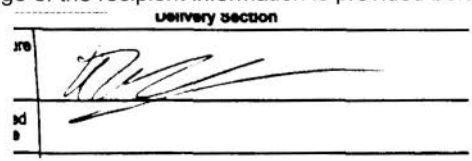
UNITED STATES
POSTAL SERVICE

Date: October 31, 2013

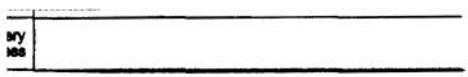
cheri kimbrell:

The following is in response to your October 31, 2013 request for delivery information on your Certified Mail™ item number 70122210000008107643. The delivery record shows that this item was delivered on October 25, 2013 at 3:40 pm in FUQUAY VARINA, NC 27526. The scanned image of the recipient information is provided below.

Signature of Recipient :



Address of Recipient :



Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,
United States Postal Service

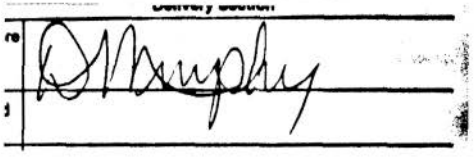
UNITED STATES POSTAL SERVICE

Date: October 31, 2013

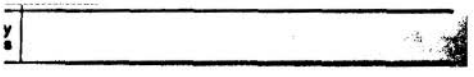
cheri kimbrell:

The following is in response to your October 31, 2013 request for delivery information on your Certified Mail™ item number 70122210000008107612. The delivery record shows that this item was delivered on October 25, 2013 at 12:07 pm in APEX, NC 27502. The scanned image of the recipient information is provided below.

Signature of Recipient :



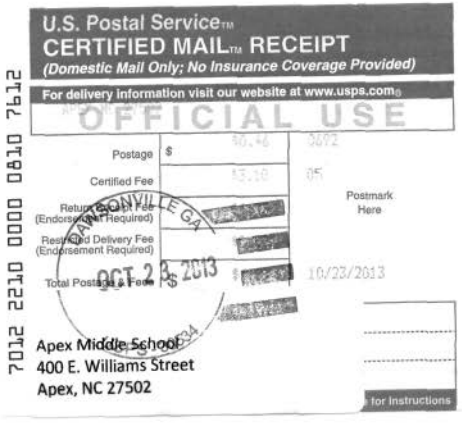
Address of Recipient :



Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,
United States Postal Service



UNITED STATES POSTAL SERVICE

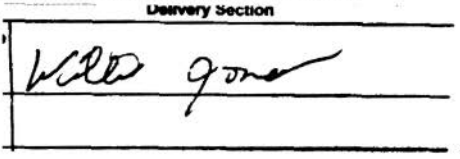
Date: November 1, 2013

cheri kimbrell:

The following is in response to your October 31, 2013 request for delivery information on your Certified Mail™ item number 70122210000008107551. The delivery record shows that this item was delivered on October 25, 2013 at 2:16 pm in APEX, NC 27502. The scanned image of the recipient information is provided below.

Delivery Section

Signature of Recipient :

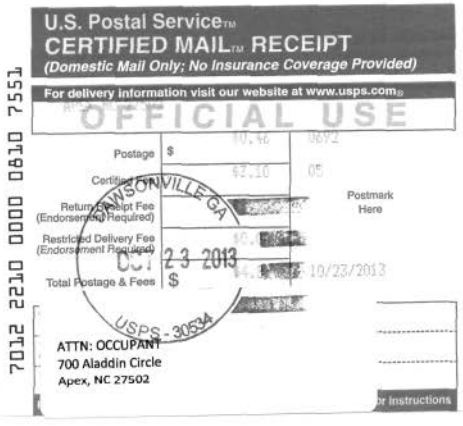


Address of Recipient :

Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,
United States Postal Service



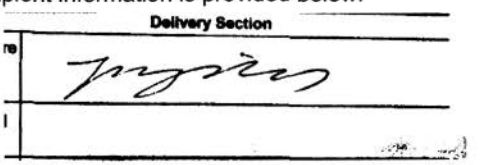
UNITED STATES POSTAL SERVICE

Date: November 1, 2013

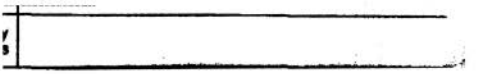
cheri kimbrell:

The following is in response to your October 31, 2013 request for delivery information on your Certified Mail™ item number 70122210000008107599. The delivery record shows that this item was delivered on October 25, 2013 at 11:08 am in APEX, NC 27502. The scanned image of the recipient information is provided below.

Signature of Recipient :



Address of Recipient :



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If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,
United States Postal Service

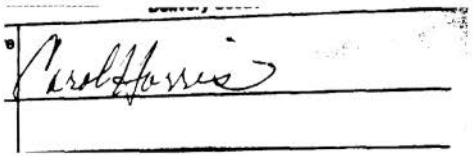
UNITED STATES POSTAL SERVICE

Date: October 31, 2013

cheri kimbrell:

The following is in response to your October 31, 2013 request for delivery information on your Certified Mail™ item number 70122210000008107544. The delivery record shows that this item was delivered on October 25, 2013 at 2:19 pm in APEX, NC 27502. The scanned image of the recipient information is provided below.

Signature of Recipient :



Address of Recipient :

Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,
United States Postal Service

UNITED STATES POSTAL SERVICE

Date: October 31, 2013

cheri kimbrell:

The following is in response to your October 31, 2013 request for delivery information on your Certified Mail™ item number 70122210000008096503. The delivery record shows that this item was delivered on October 25, 2013 at 10:54 am in APEX, NC 27502. The scanned image of the recipient information is provided below.

Signature of Recipient :

Delivery Section

Andrew Nina

Address of Recipient :

Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,
United States Postal Service

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Total Postage & Fees $ $4.81 10/23/2013
Postmark Here
OCT 23 2013
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7012 2210 0000 0809 6503
ATTN: OCCUPANT
420 E Williams Street
Apex, NC 27502
for Instructions

Tracking Number: **70122210000008107537**

Scheduled Delivery Day: **October 26, 2013**

Product & Tracking Information

Postal Product:
First-Class Mail®

Features:
Certified Mail™

DATE & TIME	STATUS OF ITEM	LOCATION
October 25, 2013 , 2:32 pm	**Notice Left**	**APEX, NC 27502**
October 25, 2013 , 9:09 am	Out for Delivery	APEX, NC 27502
October 25, 2013 , 8:59 am	Sorting Complete	APEX, NC 27502
October 25, 2013 , 8:54 am	Arrival at Unit	APEX, NC 27502
October 25, 2013 , 3:58 am	Processed through USPS Sort Facility	RALEIGH, NC 27676
October 25, 2013	Depart USPS Sort Facility	RALEIGH, NC 27676
October 24, 2013 , 9:10 pm	Processed through USPS Sort Facility	RALEIGH, NC 27676
October 24, 2013	Depart USPS Sort Facility	NORTH METRO, GA 30026
October 23, 2013 , 6:56 pm	Processed at USPS Origin Sort Facility	NORTH METRO, GA 30026
October 23, 2013 , 3:31 pm	Dispatched to Sort Facility	DAWSONVILLE, GA 30534
October 23, 2013 , 2:00 pm	Acceptance	DAWSONVILLE, GA 30534

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DAWSONVILLE GA
OCT 23 2013
USPS-30

Postmark Here

10/23/2013

ATTN: OCCUPANT
612 Short Street
Apex, NC 27502

for Instructions

Tracking Number: **70122210000008107568**

Scheduled Delivery Day: **October 26, 2013**

Product & Tracking Information

Postal Product:
First-Class Mail®

Features:
Certified Mail™

DATE & TIME	STATUS OF ITEM	LOCATION
October 25, 2013 , 2:26 pm	**Notice Left**	**APEX, NC 27502**
October 25, 2013 , 9:09 am	Out for Delivery	APEX, NC 27502
October 25, 2013 , 8:59 am	Sorting Complete	APEX, NC 27502
October 25, 2013 , 8:54 am	Arrival at Unit	APEX, NC 27502
October 25, 2013 , 3:58 am	Processed through USPS Sort Facility	RALEIGH, NC 27676
October 25, 2013	Depart USPS Sort Facility	RALEIGH, NC 27676
October 24, 2013 , 9:10 pm	Processed through USPS Sort Facility	RALEIGH, NC 27676
October 24, 2013	Depart USPS Sort Facility	NORTH METRO, GA 30026
October 23, 2013 , 6:56 pm	Processed at USPS Origin Sort Facility	NORTH METRO, GA 30026
October 23, 2013 , 3:31 pm	Dispatched to Sort Facility	DAWSONVILLE, GA 30534
October 23, 2013 , 2:02 pm	Acceptance	DAWSONVILLE, GA 30534

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USPS - 30534
10/23/2013
ATTN: OCCUPANT
701 Maple Shade Lane
Apex, NC 27502
7012 2210 0000 0810 7568

USPS Tracking™

Customer Service ›
Have questions? We're here to help.

Tracking Number: **70122210000008107513**

Scheduled Delivery Day: October 26, 2013
Your item was returned to the sender on October 26, 2013 at 10:42 am in APEX, NC 27502 because of an incorrect address.

Product & Tracking Information

Postal Product:
First-Class Mail®

Features:
Certified Mail™

DATE & TIME	STATUS OF ITEM	LOCATION
October 26, 2013 , 10:42 *am*	**No Such Number**	**APEX, NC 27502**
October 25, 2013 , 2:24 pm	Undeliverable as Addressed	APEX, NC 27502
October 25, 2013 , 9:09 am	Out for Delivery	APEX, NC 27502
October 25, 2013 , 8:59 am	Sorting Complete	APEX, NC 27502
October 25, 2013 , 8:54 am	Arrival at Unit	APEX, NC 27502
October 25, 2013 , 3:58 am	Processed through USPS Sort Facility	RALEIGH, NC 27676
October 25, 2013	Depart USPS Sort Facility	RALEIGH, NC 27676
October 24, 2013 , 9:10 pm	Processed through USPS Sort Facility	RALEIGH, NC 27676
October 23, 2013 , 6:56 pm	Processed at USPS Origin Sort Facility	NORTH METRO, GA 3
October 23, 2013 , 3:31 pm	Dispatched to Sort Facility	DAWSONVILLE, GA 30
October 23, 2013 , 1:59 pm	Acceptance	DAWSONVILLE, GA 30

Available Options

Return Receipt Electronic

Email Updates

7012 2210 0000 0810 7513

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com®

OFFICIAL USE

Certified Fee
Return Receipt Fee (Endorsement Required)
Restricted Delivery Fee (Endorsement Required)
Total Postage & Fees $

Postmark Here

DAWSONVILLE GA
OCT 23 2013
USPS-3052

0/22/2013

ATTN: OCCUPANT
429 Cooke Street
Apex, NC 27502

Not a valid address

or Instructions

Mill Creek Environmental Services, Inc.
1818 Perimeter Road

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)
For delivery information visit our website at www.usps.com®

OFFICIAL USE

Postage $
Certified Fee
Return Receipt Fee (Endorsement Required)
Restricted Delivery Fee (Endorsement Required)
Total Postage & Fees $

DAWSONVILLE GA
OCT 23 2013
USPS - 30534

Sent To: Christopher & Judith Lord
Street, Apt. No.; or PO Box No.: 426 Cooke Street
City, State, ZIP+4: Apex, NC 27502

PS Form 3800, August 2006 See Reverse for Instructions

7012 2210 0000 0810 7520

27502$2.06 05/23/13

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

CERTIFIED MAIL™

7012 2210 0000 0810 7520

UNITED STATES POSTAL SERVICE

1000

27502

U.S. POSTAGE
PAID
DAWSONVILLE,GA
30534
OCT 23, '13
AMOUNT
$4.81
00049268-05

Christopher & Judith Lord
426 Cooke Street
Apex, NC 27502

X 300 NFE 1009712I0010/23/13
FORWARD TIME EXP RTN TO SEND
LORD
23 POSSUMTAIL RUN
SUNBURY VIC 3429
AUSTRALIA

NCDENR
North Carolina Department of Environment and Natural Resources
Division of Waste Management
UST Section

Pat McCrory
Governor

Dexter R. Matthews
Director

John E. Skvarla, III
Secretary

October 8, 2013

Mr. Danny Robert
Southern tire and Automotive
548 E. Williams Street
Apex NC 27502

Re: Notice of No Further Action
15A NCAC 2L .0407(d)
Risk-based Assessment and Corrective Action
for Petroleum Underground Storage Tanks

Southern tire and Automotive
548 E. Williams Street
Apex NC 27502
Wake County
Incident Number: 39341
Risk Classification: Low
Ranking:

Dear Mr. Robert:

The Notice of Residual Petroleum received by the UST Section, Raleigh Regional Office on October 7, 2013 has been reviewed. The review indicates that groundwater contamination meets the cleanup requirements for a low-risk site but exceeds the groundwater quality standards established in Title 15A NCAC 2L .0202.

The UST Section determines that no further action is warranted for this incident. This determination shall apply unless the UST Section later finds that the discharge or release poses an unacceptable risk or a potentially unacceptable risk to human health or the environment. Pursuant to Title 15A NCAC 2L .0407(a) you have a continuing obligation to notify the Department of any changes that might affect the risk or land use classifications that have been assigned.

Be advised that as groundwater contamination exceeds the groundwater quality standards established in Title 15A NCAC 2L .0202, groundwater within the area of contamination or within the area where groundwater contamination is expected to migrate is not suitable for use as a water supply

As groundwater contamination exceeds the groundwater quality standards established in Title 15A NCAC 2L .0202, pursuant to NCGS 143B-279.9 and 143B-279.11, you must file the approved Notice of Residual Petroleum (attached) with the Register of Deeds in the county in which the release is located and submit a certified copy to the UST Section within 30 days of receipt of this letter. This No Further Action determination will not become valid until the UST Section receives a certified copy of the Notice of Residual Petroleum which is filed with the Register of Deeds.

As groundwater contamination exceeds the groundwater quality standards established in Title 15A NCAC 2L .0202, public notice in accordance with 15A NCAC 2L .0409(b) also is required. Thus,

within 30 days of receipt of this letter, a copy of the letter must be provided by certified mail, or by posting in a prominent place, if certified mail is impractical, to the local health director, the chief administrative officer of each political jurisdiction in which the contamination occurs, all property owners and occupants within or contiguous to the area containing contamination, and all property owners and occupants within or contiguous to the area where the contamination is expected to migrate. Within 60 days of receiving this no further action letter, this office must be provided with proof of receipt of the copy of the letter or of refusal by the addressee to accept delivery of the copy of the letter or with a description of the manner in which the letter was posted. This No Further Action determination will not become valid until public notice requirements are completed. Interested parties may examine the Soil Cleanup Report/ Site Closure Request by contacting this regional office and may submit comments on the site to the regional office at the address or telephone number listed below.

This No Further Action determination applies only to the subject incident; for any other incidents at the subject site, the responsible party must continue to address contamination as required.

If you have any questions regarding this notice, please contact me at the address or telephone number listed below.

Sincerely,

Mark R Powers

Mark Powers
UST Section Regional Supervisor
Raleigh Regional Office

Attachments: Notice of Residual Petroleum

cc: **Raleigh Regional Office/JFM**– 1628 Mail Service Center, Raleigh, NC 27699 **(919) 791-4200**
Wake County Environmental Services
Mill Creek Environmental Services, Inc.; 1818 Perimeter Road; Dawsonville, GA 30534

COPY

NCDENR

North Carolina Department of Environment and Natural Resources
Division of Waste Management
UST Section

Pat McCrory
Governor

Dexter R. Matthews
Director

John E. Skvarla, III
Secretary

September 11, 2013

Mr. Danny Robert
Southern tire and Automotive
548 E. Williams Street
Apex NC 27502

Re: Notice of Regulatory Requirements
NCGS 143B-279.9 and 143B-279.11
Notice of Residual Petroleum

Southern tire and Automotive
548 E. Williams Street
Apex NC 27502
Wake County
Incident Number: 39341
Risk Classification: N/A
Ranking:

Dear Mr. Robert:

North Carolina General Statute (NCGS) 143B279.9 and 143B-279.11 require a Notice of Residual Petroleum (Notice) to be filed with the Register of Deeds in the county, where the release is located, when a release from an underground storage tank has not been remediated to below "unrestricted use standards". The Notice is required either prior to conveyance of a contaminated property or prior to receiving a Notice of No Further Action. "Unrestricted use standards" for groundwater are the groundwater quality standards and interim standards contained in Title 15A 2L .0202, and "unrestricted use standards" for soil are the residential maximum soil contaminant concentrations (MSCCs) established in Title 15A NCAC 2L .0411.

The Notice must be prepared in accordance with the attached instructions and format. It must contain a legal description of the property containing the source of contamination and legal descriptions of any other properties which you own (or control) which are contaminated by the release. The Notice must also include appropriate land use restrictions for these properties. In addition, the Notice must identify all other properties (adjacent, adjoining, downgradient, etc.) on which contamination is known to exist at the time the Notice is prepared.

The Notice must be sent to this regional office of the UST Section within 30 days of the date of this letter for approval and notarization. The approved and notarized Notice must then be filed by you with the Register of Deeds. After the Notice is filed with the Register of Deeds, a certified copy of the filed Notice must be submitted to this office.

Effective October 1, 2004, the Department requires that all work, following the submittal of the Limited Site Assessment Report (Title 15A NCAC 2L .0405) be preapproved if State Trust Fund reimbursement is anticipated. To comply with this requirement, a completed Preapproval/Claim Authorization Form, encompassing the required remedial activities, must be received in this office within 14 days of the date of this letter. Upon completion of the preapproved activities, you should submit your claim promptly. Reimbursement funds are budgeted based on completed preapprovals, but lengthy delays in reimbursement can occur if claims are not submitted immediately following work completion.

Failure to comply with this letter is a violation of North Carolina law and may result in the assessment of civil penalties and/or the use of other enforcement mechanisms available to the state. If you have any questions regarding this letter, please contact John F. Maloy at the address or telephone number listed below.

Sincerely,

Mark R. Powers

Mark Powers
UST Section Regional Supervisor
Raleigh Regional Office

Attachment: Instructions for Preparing Notice of Residual Petroleum

cc: **Raleigh Regional Office/JFM**– 1628 Mail Service Center, Raleigh, NC 27699 **(919) 791-4200**
Wake County Environmental Services
Mill Creek Environmental Services, Inc.; 1818 Perimeter Road; Dawsonville, GA 30534

COPY

NCDENR

North Carolina Department of Environment and Natural Resources
Division of Waste Management
UST Section

Pat McCrory
Governor

Dexter R. Matthews
Director

John E. Skvarla, III
Secretary

September 11, 2013

Mr. Danny Robert
Southern tire and Automotive
548 E. Williams Street
Apex NC 27502

Re: Acknowledgement of Report Receipt
Southern tire and Automotive
548 E. Williams Street
Apex NC 27502
Wake County
Incident Number: 39341
Risk Classification: N/A
Ranking:

Dear Mr. Robert:

The Underground Storage Tank (UST) Section is in receipt of the **UST Limited Site Assessment Report** dated September 9, 2013. The report will be reviewed and maintained in the Raleigh Regional Office.

If you have questions regarding the information contained in this letter, please contact me at the address or telephone number listed below.

Sincerely,

John F. Maloy
Raleigh Regional Office

cc: **Raleigh Regional Office/JFM**– 1628 Mail Service Center, Raleigh, NC 27699 **(919) 791-4200**
Wake County Environmental Services
Mill Creek Environmental Services, Inc.; 1818 Perimeter Road; Dawsonville, GA 30534

NCDENR

North Carolina Department of Environment and Natural Resources
Division of Waste Management
UST Section

Pat McCrory
Governor

Dexter R. Matthews
Director

John E. Skvarla, III
Secretary

May 20, 2013

Mr. Danny Robert
Southern tire and Automotive
548 E. Williams Street
Apex NC 27502

300 Gal used oil

Re: **Notice of Regulatory Requirements**
15A NCAC 2L .0404 and 2L .0405
Risk-based Assessment and Corrective Action
for Petroleum Underground Storage Tanks

Southern tire and Automotive
548 E. Williams Street
Apex NC 27502
Wake County
Incident Number: 39341
Risk Classification: N/A
Ranking:

Dear Mr. Robert:

Information received by this office on May 10, 2013 confirms a release or discharge from a petroleum underground storage tank (UST) system at the above-referenced location. Records indicate that you are the owner or operator of this UST system. Therefore, as a responsible party, you must comply with the initial response and abatement action requirements of Title 15A NCAC 2L .0404 and, if applicable, the assessment and reporting requirements of Title 15A NCAC 2L .0405, within the timeframes specified in the attached rules. (Be aware that if the latter rule is applicable, you must comply with its requirements even if you do not receive formal notification from the UST Section.)

Initial abatement action requirements include the preparation and submittal of an Initial Abatement Action (IAA) Report, in accordance with Title 15A NCAC 2L .0404 and the most recent version of the *Guidelines for Site Checks, Tank Closure, and Initial Response and Abatement for UST Releases*, within 90 days of discovery of the release.

Because a release or discharge has been confirmed, a Licensed Geologist or a Professional Engineer, certified by the State of North Carolina, is required to prepare and certify all reports submitted to the Department in accordance with Title 15A NCAC 2L .0103(e) and 2L .0111(b).

Please note that before you sell, transfer, or request a "No Further Action" determination for a property that has not been remediated to below "unrestricted use" standards, you must file a Notice of Residual Petroleum ("Notice") with the Register of Deeds in the county where the property is located (NCGS 143B-279.9 and 143B-279.11).

Failure to comply with the State's rules in the manner and time specified may result in the assessment of civil penalties and/or the use of other enforcement mechanisms.

NCDENR

North Carolina Department of Environment and Natural Resources
Division of Waste Management
UST Section

Pat McCrory
Governor

Dexter R. Matthews
Director

John E. Skvarla, III
Secretary

May 20, 2013

Mr. Danny Robert
Southern tire and Automotive
548 E. Williams Street
Apex NC 27502

200 gal used oil

Re: Acknowledgement of Report Receipt
Southern tire and Automotive
548 E. Williams Street
Apex NC 27502
Wake County
Incident Number: 39341
Risk Classification: N/A
Ranking:

Dear Mr. Robert:

The Underground Storage Tank (UST) Section is in receipt of the **UST 20-Day Report** dated May 10, 2013. The report will be reviewed and maintained in the Raleigh Regional Office.

If you have questions regarding the information contained in this letter, please contact me at the address or telephone number listed below.

Sincerely,

John F. Maloy
Raleigh Regional Office

cc: **Raleigh Regional Office/JFM– 1628 Mail Service Center, Raleigh, NC 27699 (919) 791-4200**
Wake County Environmental Services
H.E.S., Inc.; 8410-D Falls of Neuse Road.; Raleigh, NC 27615

NCDENR

North Carolina Department of Environment and Natural Resources
Division of Waste Management
UST Section

Pat McCrory
Governor

Dexter R. Matthews
Director

John E. Skvarla, III
Secretary

May 30, 2013

Mr. Zachary Fisher
P.O. Box 3807
Cary NC 27519

Re: Notice of No Further Action
15A NCAC 2L .0407(d)
Risk-based Assessment and Corrective Action for Petroleum Underground Storage Tanks

Southern Tire and Automotive Site
Facility # N/A
548 E. Williams Street
Apex, NC 27502
Wake County
Incident Number: 39346
Risk Classification: Low
Ranking: N/A

Diesel
2000 gal

Dear Mr. Fisher:

The **UST Closure Report** received by the Underground Storage Tank (UST) Section, Raleigh Regional Office on May 23, 2013has been reviewed. The review indicates that soil contamination does not exceed the residential maximum soil contaminant concentrations (MSCCs), established in Title 15A NCAC 2L .0411 and that groundwater contamination does not exceed the groundwater quality standards established in Title 15A NCAC 2L .0202.

The UST Section determines that no further action is warranted for this incident. This determination shall apply unless the UST Section later finds that the discharge or release poses an unacceptable risk or a potentially unacceptable risk to human health or the environment. Pursuant to Title 15A NCAC 2L .0407(a) you have a continuing obligation to notify the Department of any changes that might affect the risk or land use classifications that have been assigned.

This No Further Action determination applies only to the subject incident; for any other incidents at the subject site, the responsible party must continue to address contamination as required.

If you have any questions regarding this notice, please contact me at the address or telephone number listed below.

Sincerely,

Mark R. Powers

Mark Powers
UST Section Regional Supervisor
Raleigh Regional Office

cc: Raleigh Regional Office/JFM– 1628 Mail Service Center, Raleigh, NC 27699 (919) 791-4200
Wake County Environmental Services
H.E.S., Inc.; 8410-D Falls of Neuse Road.; Raleigh, NC 27615

APPENDIX J

SOIL BORING LOGS AND WELL CONSTRUCTION DIAGRAMS

(Soil boring logs for S-1/GW-1, S-2/GW-2, S-3, GW-3, and GW-4 are presented in Appendix F. Soil boring logs for SB-1 through SB-8 are presented in Appendix G.)

Mill Creek Environmental Services
1818 Perimeter Rd.
Dawsonville, Georgia 30534
ENVIRONMENTAL SERVICES

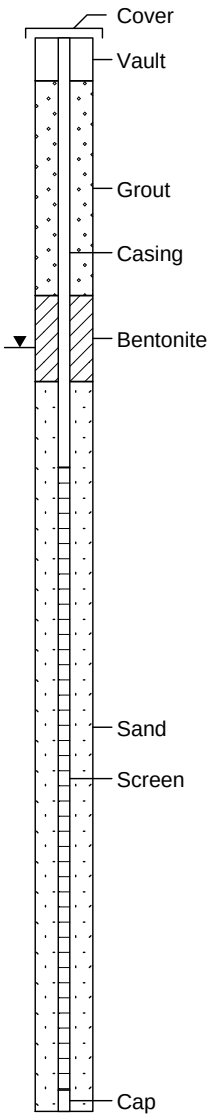
LOG OF BORING MW-1

Apex Village
500-610 East Williams Street
Apex, North Carolina 37501

Date Installed	: 6-17-13	Ground Elevation	: 471.91'
Logged By	: DWP	GW Elevation	: 7.21' BTOC
Drilling Company	: Quantex	Date Measured	: 6-18-13
Drilling Method	: 6" SSA		
TOC Elevation	: 471.61'		

Well1: MW-1
Elev.: 471.61'

Depth in Feet	Samples	Lab No.	DESCRIPTION	USCS
0			3", Asphalt, gravel base.	FL
	1		Silty Clay, little medium grained sand, mottled, Tan/Reddish Brown, damp.	CL
5	2		Softer, looser, increase in moisture.	CL
10	3			CL
15	4		Saturated @ 17' BGS	CL
20	5		Clayey sand and silt, tan/reddish/brown, banded, coarse to fine grain sand.	SC
25				
30				



Boring Terminated at 25' BGS

Boring Depth: 25' Boring Diameter: 6"
Well Depth: 25' Well Diameter: 2"
Well Material: PVC Screen Slot: 0.010"
Casing: 0-10' Screen: 10-25'
Bottom Cap: 25' Sand: 8-25'
Bentonite: 6-8' Grout: 1-6'

Mill Creek Environmental Services
1818 Perimeter Rd.
Dawsonville, Georgia 30534

ENVIRONMENTAL SERVICES

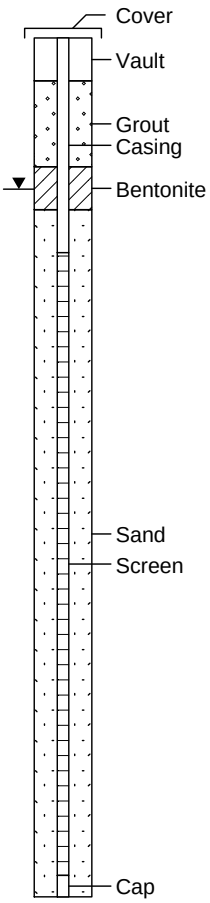
LOG OF BORING MW-2

Apex Village
500-610 East Williams Street
Apex, North Carolina 37501

Date Installed	: 6-17-13	Ground Elevation	: 457.75'
Logged By	: DWP	GW Elevation	: 3.52' BTOC
Drilling Company	: Quantex	Date Measured	: 6-18-13
Drilling Method	: 6" SSA		
TOC Elevation	: 457.45'		

Depth in Feet	Samples	Lab No.	DESCRIPTION	USCS	GRAPHIC
0			Asphalt to 4", gravel base.	FL	
	1, 2		Sandy Clay, medium to very fine grained, mottled, tan/reddish brown, , little plastic, damp	CL	
10	3		Clayey Sand, Tan/Pink	SC	
15	4		Silty sand, coarse to fine grained, tan damp Same as above.	SM	
20					

Well1: MW-2
Elev.: 457.45'



Boring Terminated at 20' BGS

Boring Depth: 20' Boring Diameter: 6"
Well Depth: 20' Well Diameter: 2"
Well Material: PVC Screen Slot: 0.010"
Casing: 0-5' Screen: 5-20'
Bottom Cap: 20' Sand: 4-20'
Bentonite: 3-4' Grout: 1-3'

01-10-2014 C:\apex\bor\mw-2.bor

Mill Creek Environmental Services
1818 Perimeter Rd.
Dawsonville, Georgia 30534
ENVIRONMENTAL SERVICES

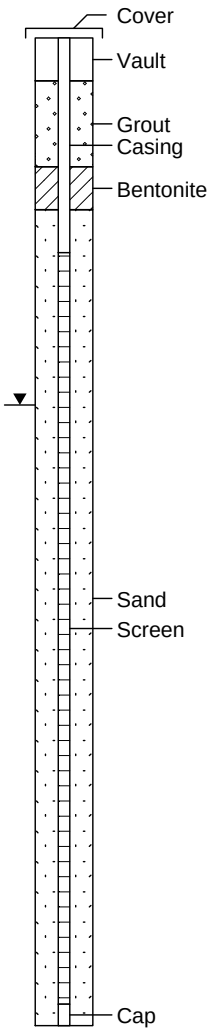
LOG OF BORING MW-3

Apex Village
500-610 East Williams Street
Apex, North Carolina 37501

Date Installed	: 6-17-13	Ground Elevation	: 465.11'
Logged By	: DWP	GW Elevation	: 8.55' BTOC
Drilling Company	: Quantex	Date Measured	: 6-18-13
Drilling Method	: 6" SSA		
TOC Elevation	: 464.81'		

Depth in Feet	Samples	Lab No.	DESCRIPTION	USCS	GRAPHIC
0			Asphalt, gravel base.	FL	
	1, 2		Clayey/Silty Sand, fine to very fine, mottled, Brown/Gray, damp No recovery	SC	
10	3, 4		Silty Clay, fine grained, mottled and banded, Tan/Reddish brown, damp,	CL	
			Grayish brown, silty sand, wet @ 18'.	SM	
20	5		Silty Clay, banded, orangish/tan/brown, damp. Saturated @21' BGS.	CL	
25					
30					

Well1: MW-3
Elev.: 464.81'



Boring Terminated at 25' BGS

Boring Depth: 25' Boring Diameter: 6"
Well Depth: 23' Well Diameter: 2"
Well Material: PVC Screen Slot: 0.010"
Casing: 0-5' Screen: 5-23'
Bottom Cap: 23' Sand: 4-23'
Bentonite: 3-4' Grout: 1-3'

Mill Creek Environmental Services
1818 Perimeter Rd.
Dawsonville, Georgia 30534

ENVIRONMENTAL SERVICES

LOG OF BORING MW-4

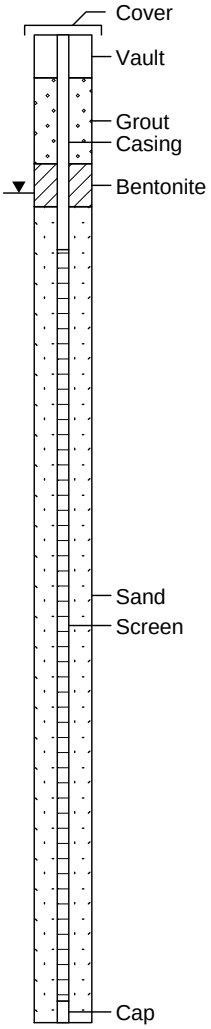
Apex Village
500-610 East Williams Street
Apex, North Carolina 37501

Date Installed	: 6-17-13	Ground Elevation	: 463.48'
Logged By	: DWP	GW Elevation	: 3.68' BTOC
Drilling Company	: Quantex	Date Measured	: 6-18-13
Drilling Method	: 6" SSA		
TOC Elevation	: 463.18'		

Depth in Feet	Samples	Lab No.	DESCRIPTION	USCS
0			Asphalt to 4"	FL
	1		Silty Clay, Reddish brown, hard, dry.	CL
5	2		Silty Clay, Reddish brown, hard, dry.	CL
10	3	MW-4 12'	Moist.	CL
15			Silty Sand, Dark brown, damp to moist.	SM
	4	MW-4 16'	Silty Clay, banded, Reddish/brown/pink, moist. Saturated @ 18' BGS.	CL
20	5			CL
25				
30				

GRAPHIC

Well1: MW-4
Elev.: 463.18'



Boring Terminated at 23' BGS

Boring Depth: 23' Boring Diameter: 6"
Well Depth: 23' Well Diameter: 2"
Well Material: PVC Screen Slot: 0.010"
Casing: 0-5' Screen: 5-23'
Bottom Cap: 23' Sand: 4-23'
Bentonite: 3-4' Grout: 1-3'

01-10-2014 C:\apex\bor\mw-4.bor

Mill Creek Environmental Services
1818 Perimeter Rd.
Dawsonville, Georgia 30534

ENVIRONMENTAL SERVICES

LOG OF BORING MW-5

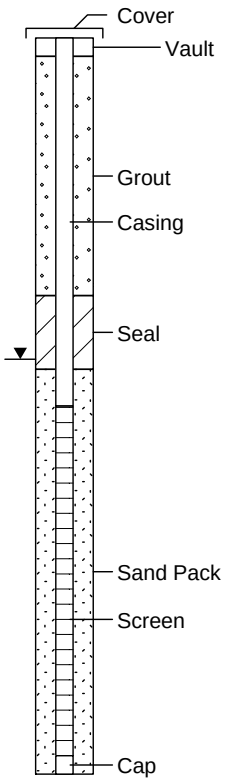
Apex Village
500-610 East Williams Street
Apex, North Carolina 37501

Date Installed	: 9-12-13
Logged By	: DWP
Drilling Company	: Quantex
Drilling Method	: 6" SSA
TOC Elevation	: 463.20'
Ground Elevation	: 463.50'
Depth to GW	: 8.73' BTOC
Date Measured	: 9-12-13

Depth in Feet	Samples	% REC	DESCRIPTION	USCS
0			Hand Auger to 4-feet BGS, 4" Asphalt, gravalt base.	FL
5	1	60	Silty Clay, Reddish brown, tan mottled medium to fine grained, soft, moist.	FL
10	2	20	Silty Clay, Color change to light brown, gray mottled, organics, roots (topsoil).	CL
15	3	100	Saturated at 14' BGS Silty Sand, light brown, loose, saturated (perched water) coarse to very fine grained , rounded grains. Graded to saprolitic soil, faint banding (weatherd bedrock), tan/gray, dry. Probe refusal @ 20.5' BGS	SM
20				
25				
30				
35				

GRAPHIC

Well1: MW-5
Elev.: 463.20'



Boring Depth: 20.5'
Boring Diameter: 6"
Well Depth: 20'
Well Diameter: 2"
Well Material: PVC
Screen Slot: 0.010"
Casing: 0-10'
Screen: 10-20'
Bottom Cap: 20'
Sand: 9-20'
Bentonite: 7-9'
Grout: 0.5-7'

Mill Creek Environmental Services
1818 Perimeter Rd.
Dawsonville, Georgia 30534

ENVIRONMENTAL SERVICES

LOG OF BORING MW-6

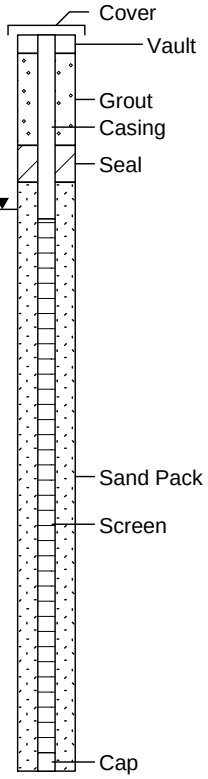
Apex Village
500-610 East Williams Street
Apex, North Carolina 37501

Date Installed	: 9-12-13	Ground Elevation	: 456.23'
Logged By	: DWP	Depth to GW	: 4.74' BTOC
Drilling Company	: Quantex	Date Measured	: 9-12-13
Drilling Method	: 6" SSA		
TOC Elevation	: 455.93'		

Depth in Feet	Samples	% REC	DESCRIPTION	USCS
0			Hand Auger to 4-feet BGS	FL
5	1	80	Sandy clay, coarse to fine grained, little silt, some sand, bluish gray/brown mottles with reddish brown streaks, medium firm, moist.	CL
10	2	20	Saturated at 14' BGS.	
15	3	50	Silty Sand, weathered granitic bedrock texture, coarse to very fine grained, black, tan, gray banded, saturated, very firm, trace mica, little silt Probe refusal @ 19' BGS, augers extended to 20' BGS.	SM
20				
25				
30				
35				

GRAPHIC

Well1: MW-6
Elev.: 455.93'



Boring Depth: 20'
Boring Diameter: 6"
Well Depth: 20'
Well Diameter: 2"
Well Material: PVC
Screen Slot: 0.010"
Casing: 0-5'
Screen: 5-20'
Bottom Cap: 20'
Sand: 4-20'
Bentonite: 3-4'
Grout: 0.5-3'

01-10-2014 C:\apex\bor\mw-6.bor

Mill Creek Environmental Services
1818 Perimeter Rd.
Dawsonville, Georgia 30534

ENVIRONMENTAL SERVICES

LOG OF BORING MW-7

Apex Village
500-610 East Williams Street
Apex, North Carolina 37501

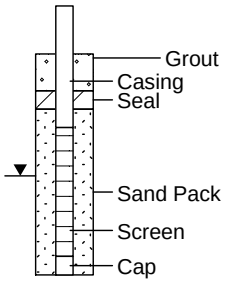
Date Installed	: 9-12-13	Ground Elevation	: NM
Logged By	: DWP	Depth to GW	: 6.31' BTOC
Drilling Company	: Quantex	Date Measured	: 9-12-13
Drilling Method	: Hand Auger		
TOC Elevation	: 458.36'		

Depth in Feet	Samples	% REC	DESCRIPTION	USCS	GRAPHIC
0			Top soil, dark brown, roots, organics, damp. Silty Clay, medium to fine grained, some sand, some silt.	CL	
			Clay sand, medium to fine grained, saturated, loose, medium gray. Boring Terminatedl @ 7' BGS, refusal on tree roots.	SC	
5					
10					
15					
20					
25					
30					
35					

Boring Depth: 7'
Well Depth: 6'
Well Material: PVC
Casing: 0-2'
Bottom Cap: 6'
Bentonite: 1-1.5'

Boring Diameter: 3"
Well Diameter: 2"
Screen Slot: 0.010"
Screen: 2-6'
Sand: 1.5-6'
Grout:0-1'

Well1: MW-7
Elev.: 458.36



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APPENDIX K

MONITORING WELL DEVELOPMENT AND GROUNDWATER SAMPLING LOGS

Well Development and Water Quality Log Sheet

Project Apex Village AV-1301-6 Personnel D. PAYNE Equipment Horiba U53/ Peristaltic pump and bailer

Well ID MW-1 Date 6-18-13 Start Time 0

End Time

Time	Purge Volume (cumulative gal)	DO (mg/l)	pH (std units)	Temp. (oC)	Cond. (uS/m)	Turb. (NTU)	ORP (mV)		
0920	1	4.81	5.56	22.19	77	~~402~~	295		
0933	2.5	4.80	4.99	21.89	64	~~[illegible]~~	318		
0944	4	3.92	4.78	21.96	66	11.9	351		
0957	6	3.58	4.68	21.96	64	~~[illegible]~~ 1000	338	Tube slipped Down	
1003	7	5.4	4.65	21.89	63	12.7	352		
1009	8	5.26	4.62	21.84	63	654	374		
1020	9	4.12	4.47	21.89	63	>1000	334		
1045	12	4.07	4.33	21.88	63	>1000	346	switch to Bailer	
1100	14	4.10	4.38	21.91	63	>1000	342		
				Terminate Development					
1415	GW sample by bailer dipped gently						~~[illegible]~~ VOC 8260B+		
		3.74	4.70	22.88	107	54	310	NAPh.	

Purge 3-5 well volumes or until well is dry.
2-inch well = 0.17 gallons/foot of water.

Well Depth 23.52

Water Level (-) 7.21

Water Colum 16.31

0.17 g/ft (x) 2.77 One Well Volume

3 Well Volumes (x) 8.32 Minimum Purge Volume

Well Development and Water Quality Log Sheet

Project AV-1301-6 Personnel D. Payne Equipment Bailer/Horiba U53

Well ID MW-2 Date 6-18-13 Start Time 1109

End Time 1207

Time	Purge Volume (cumulative gal)	DO (mg/l)	pH (std units)	Temp. (oC)	Cond. (uS/m)	Turb. (NTU)	ORP (mV)		
1116	1	7.74	4.87	22.50	103	740	274		
1122	2.5	4.29	4.5	22.22	134	904	261		
1127	4	7.95	4.49	22.05	153	915	262		
1132	5	7.83	4.40	21.94	182	431	254		
1139	7	4.68	4.55	21.66	181	877	253		
1144	8	4.42	4.35	21.63	159	980	263		
1146	9	3.86	4.38	~~21.68~~ 21.69	165	718	268		
1149	10	4.40	4.30	21.63	188	374	277		
1155	12	4.42	4.32	21.64	176	355	278		
~~[illegible]~~ 1202	14	4.38	4.30	21.66	172	319	275		
1445	Collected GW Sample MW-2 for VOCs 8260B, + Naphthalene								
Params @ time of sampling		3.8	4.91	24.92	148	64.8	280		

Purge 3-5 well volumes or until well is dry.
2-inch well = 0.17 gallons/foot of water.

Well Depth 20'

Water Level (-) 3.52

Water Colum 16.48

0.17 g/ft (x) 2.8 One Well Volume

3 Well Volumes (x) 8.4 Minimum Purge Volume

x5 = 14

Field Parameter Log.xls

Well Development and Water Quality Log Sheet

Project AV-1301-6 Personnel D. PAINE Equipment Solar Horiba U53

Well ID MW-3 Date 6-18-13 Start Time 1201

End Time 1255

Time	Purge Volume (cumulative gal)	DO (mg/l)	pH (std units)	Temp. (oC)	Cond. (uS/m)	Turb. (NTU)	ORP (mV)		
1206	1	4.60	4.64	22.16	111	>1000	271		
1211	2.5	4.44	4.63	22.40	97	>1000	308		
1215	4.0	4.69	4.38	22.13	90	573	344		
1228	6.0	4.64	4.36	22.11	86	>1000	349		
1232	7.5	4.66	4.26	21.93	85	>1000	358		
1239	10	4.71	4.28	22.04	82	>1000	365		
1242	11	4.80	4.27	21.95	83	>1000	364		
1247	12	4.77	4.26	21.96	79	>1000	360		
1255	13	4.76	4.26	21.95	78	>1000	358		
1500	Collect	GW	Sample	MW-3	for	VOCs	8260B		
Params @ time		+	Naphthalene						
of sampling		5.03	4.98	24.97	82	25.4	256		

Purge 3-5 well volumes or until well is dry.
2-inch well = 0.17 gallons/foot of water.

Well Depth 23

Water Level (-) 8.55

Water Colum 14.45

0.17 g/ft (x) 2.5 One Well Volume

5 Well Volumes (x) 12.5 Minimum Purge Volume

Well Development and Water Quality Log Sheet

Project AV-138-6 Personnel D. Payne Equipment Bailer/Honda U53

Well ID MW-4 Date 6-18-13 Start Time 1250

End Time

Time	Purge Volume (cumulative gal)	DO (mg/l)	pH (std units)	Temp. (oC)	Cond. (uS/m)	Turb. (NTU)	ORP (mV)		
1301	1	4.03	4.51	22.82	95	>1000	259		
1308	2.5	2.84	4.73	24.06	131	>1000	299		
1314	5	2.12	4.54	23.88	135	>1000	296		
1320	7.5	2.83	4.53	23.81	134	>1000	298		
1326	10	2.96	4.51	23.17	128	492	298		
1335	12	3.11	4.51	21.91	126	765	300		
1340	14	3.05	4.48	21.86	127	>40	301		
1344	15	2.98	4.45	21.76	131	687	300		
1351	16.5	2.85	4.49	21.71	127	623	302		
1520	Collect GW Sample MW-4 for VOCs, SVOCs + 10 TICs, VPH, EPH, chromium, Lead								
Params on line of sampling									
		2.94	4.63	25.54	113	69.6	365		

Purge 3-5 well volumes or until well is dry.
2-inch well = 0.17 gallons/foot of water.

Well Depth 23'

Water Level (-) 3.68

Water Colum 19.32

0.17 g/ft (x) 3.3 One Well Volume

3 Well Volumes (x) 9.8 Minimum Purge Volume

x5 = 16.5

Field Parameter Log.xls

Apex Village
AV-1301-7

well Development and

GROUNDWATER SAMPLING FIELD PARAMETER DATA SHEET

Well No. MW-5
Date: 9-12-13
Sampling Equipment: Bailer / Horiba U53
Sampler(s) D. PAYNE
Weather: Sunny / Hot 92°F
Well Depth (ft/BTOC): 20'

Screened Interval (ft/BTOC) 10-20
Well Diameter (in) 2"
Depth to Water (ft/BTOC) 8.73 ft BTOC
Water Column (ft) 11.27
Well Volume (gal) 1.92 X5 = 9.6 gal
~~Initial Pump Depth (ft/BTOC)~~

Time	Purge Volume	Cumulative Purge Volume	Depth to Water	Temp. °C	pH std units	ORP mV	Cond. mS/cm	Turbidity NTU	DO mg/l
1330	0.25	0.25		27.05	6.43	-11	0.207	>1000	0.84
1332		2.5		25.68	5.9	62	0.278	>1000	3.85
1350		5.0		25.42	5.89	67	0.305	>1000	4.49
1353		7.5		24.66	5.81	73	0.272	>1000	3.34
1356		9.0		24.68	5.67	68	0.292	>1000	2.32
1359		11.0		24.67	5.68	69	0.287	>1000	2.42
1404		13.0		24.66	5.67	69	0.283	>1000	2.38

Sample Collection Time: 1540 Analytical Parameters: VOCs

Remarks:

Volume Calculation, 2-inch well: Water Column (ft) * 0.17 (gal/ft) = Well Volume (gal)
Volume Calculation, 4-inch well: Water Column (ft) * 0.65 (gal/ft) = Well Volume (gal)

Apex Village
AV-1301-7

Well Development and

GROUNDWATER SAMPLING FIELD PARAMETER DATA SHEET

Well No. MW-6
Date: 9-12-13
Sampling Equipment: bailer/Horiba U53
Sampler(s) David Payne
Weather: Sunny Hot 92°F
Well Depth (ft/BTOC): 20'

Screened Interval (ft/BTOC) 5-20
Well Diameter (in) 2"
Depth to Water (ft/BTOC) 4.74
Water Column (ft) 15.26
Well Volume (gal) 2.6 x 5 ≈ 13
~~Initial Pump Depth (ft/BTOC)~~:

Time	Purge Volume	Cumulative Purge Volume	Depth to Water	Temp. °C	pH std units	ORP mV	Cond. mS/cm	Turbidity NTU	DO mg/l
1422		0.25		25.00	5.81	147	0.109	>1000	10.67
1427		2.0		23.87	5.62	89	0.110	>1000	6.94
1433		5.0		22.97	5.52	94	0.094	>1000	6.54
1437		7.0		21.92	5.41	220	0.057	>1000	6.82
1443		10.0		20.84	5.37	223	0.045	>1000	6.81
1450		13.0		20.65	5.47	199	0.053	>1000	6.82
1455		15.0		20.68	5.42	215	0.051	>1000	6.81

Sample Collection Time: 1525 Analytical Parameters: VOCs

Remarks:

Volume Calculation, 2-inch well: Water Column (ft) * 0.17 (gal/ft) = Well Volume (gal)
Volume Calculation, 4-inch well: Water Column (ft) * 0.65 (gal/ft) = Well Volume (gal)

Well Development and Water Quality Log Sheet

Project AV-1301-7 Personnel David Payne Equipment bailer/Horiba U53

Well ID MW-7 Date 9-12-13 Start Time _____

End Time _____

Time	Purge Volume (cumulative gal)	DO (mg/l)	pH (std units)	Temp. (oC)	Cond. (uS/m)	Turb. (NTU)	ORP (mV)		
1504	0.25	4.03	5.49	21.98	0.109	>1000	140	well Bail DRY	
1530	0.75	5.56	5.81	21.59	0.092	>1000	156	at 0.5 gal (let recharge)	
								DRY again @ 1gal (let Recharge)	
1550	→	Collect GW	Sample ⇒ VOCS						

Purge 3-5 well volumes or until well is dry.
2-inch well = 0.17 gallons/foot of water.

Well Depth 9.90 BTOC

Water Level (-) 6.31 BTOC

Water Colum 3.59

0.17 g/ft.(x) 0.61 One Well Volume

5 Well Volumes (x) 3.05 Minimum Purge Volume

DBV.

9.90
6.31
3.59
x .17
3 0.61

GW sample collected for VOCs

Field Parameter Log.xls

GROUNDWATER SAMPLING FIELD PARAMETER DATA SHEET

Well No. MW-1
Date: 12-17-13
Sampling Equipment: Peristaltic Pump/Teflon lined tubing
Sampler(s) David Payne Horiba U53
Weather: Sunny, Cool
Well Depth (ft/BTOC): 23 ft

Screened Interval (ft/BTOC) 5-23'
Well Diameter (in) 2"
Depth to Water (ft/BTOC) 10.15'
Water Column (ft) 12.85'
Well Volume (gal) 2.18 x 3 = 6.55
Initial Pump Depth (ft/BTOC): 15'

				Temp.	pH	ORP	Cond.	Turbidity	DO
Time	Purge Volume	Cumulative Purge Volume	Depth to Water	°C	std units	mV	mS/cm	NTU	mg/l
0915	0.5	1.5	10.28	21.24	4.47	NOT measured	70.0	45.05	3.85
0917	0.5	2	10.29	21.18	4.46		71.0	31.80	3.66
0921	0.5	2.5	10.29	21.19	4.43		70.0	26.80	4.06
0925	0.5	3	10.29	21.17	4.38		71.0	56.70	4.12
0929	0.5	3.5	10.30	21.10	4.35		71.0	63.80	4.13
0933	0.5	4	10.30	20.97	4.36		71.0	63.80	4.14
0937	0.5	4.5	10.31	20.89	4.35		70.0	49.10	4.14
0942	0.5	5	10.31	20.91	4.35		70.0	48.60	4.13
0947	0.5	5.5	10.31	20.94	4.34		70.0	47.20	4.14

Sample Collection Time: 0955
Analytical Parameters: VOCs, Methane, Ethane, Ethene
Fe^{2+}, SO_3, SO_4, NO_4/NO_3

Remarks:

Volume Calculation, 2-inch well: Water Column (ft) * 0.17 (gal/ft) = Well Volume (gal)
Volume Calculation, 4-inch well: Water Column (ft) * 0.65 (gal/ft) = Well Volume (gal)

GROUNDWATER SAMPLING FIELD PARAMETER DATA SHEET

Well No. MW-2
Date: 12-17-13
Sampling Equipment: Peristaltic Pump, Horiba U-53
Sampler(s) David Payne
Weather: Sunny/Cool
Well Depth (ft/BTOC): 20'

Screened Interval (ft/BTOC) 5-20'
Well Diameter (in) 2"
Depth to Water (ft/BTOC) 3.79'
Water Column (ft) 16.21
Well Volume (gal) 2.75
Initial Pump Depth (ft/BTOC): 16'

Time	Purge Volume	Cumulative Purge Volume	Depth to Water	Temp. C	pH std units	ORP mV	Cond. mS/cm	Turbidity NTU	DO mg/l
1431	0.5	0.5	3.79	20.44	4.92	329	14	92.2	4.25
1436	0.5	1.0	3.79	20.41	4.90	335	14	52.1	4.08
1441	0.5	1.5	3.80	20.28	4.86	346	15	39.6	4.09
1447	0.5	2.0	3.81	20.25	4.86	335	15	33.0	3.99
1455	collect GW Sample MW-2								

Sample Collection Time: 1455

Analytical Parameters: VOCs, methane/Ethane/Ethene, NO_4, NO_3, SO_4, SO_3, Cl, Fe^{2+}

Remarks:

Volume Calculation, 2-inch well: Water Column (ft) * 0.17 (gal/ft) = Well Volume (gal)
Volume Calculation, 4-inch well: Water Column (ft) * 0.65 (gal/ft) = Well Volume (gal)

GROUNDWATER SAMPLING FIELD PARAMETER DATA SHEET

Well No. MW-3
Date: 12-17-13
Sampling Equipment: Horiba U53, Peristaltic Pump
Sampler(s) David Payne
Weather: Sunny, Cool
Well Depth (ft/BTOC): 23

Screened Interval (ft/BTOC) 5-23'
Well Diameter (in) 2"
Depth to Water (ft/BTOC) 9.48
Water Column (ft) 13.52'
Well Volume (gal) 2.3
Initial Pump Depth (ft/BTOC): 15'

				Temp.	pH	ORP	Cond.	Turbidity	DO
Time	Purge Volume	Cumulative Purge Volume	Depth to Water	°C	std units	mV	mS/cm	NTU	mg/l
1207	0.5	0.5	9.48	20.09	5.45	99	119	103	3.19
1215	0.5	1.0	9.49	21.64	4.84	272	88	50.9	4.43
1221	0.5	1.5	9.51	21.74	4.72	314	89	28.7	4.24
1228	0.5	2.0	9.50	21.81	4.73	319	89	16.1	4.20
1235	0.5	2.5	9.51	21.88	4.72	321	83	12.4	4.18

Sample Collection Time: 1245 Analytical Parameters: VOCs, Methane/Ethane/Ethene
SO_4, SO_3, NO_3, NH_4, Cl, Fe^{2+}

Remarks:

Volume Calculation, 2-inch well: Water Column (ft) * 0.17 (gal/ft) = Well Volume (gal)
Volume Calculation, 4-inch well: Water Column (ft) * 0.65 (gal/ft) = Well Volume (gal)

GROUNDWATER SAMPLING FIELD PARAMETER DATA SHEET

Well No. MW-4
Date: 12-17-13
Sampling Equipment: Horiba U53, Peristaltic
Sampler(s) David Payne
Weather: Sunny/Cool
Well Depth (ft/BTOC): 23

Screened Interval (ft/BTOC) 5-23'
Well Diameter (in) 2"
Depth to Water (ft/BTOC) 6.80
Water Column (ft) 16.20
Well Volume (gal) 2.75
Initial Pump Depth (ft/BTOC): 18

				Temp.	pH	ORP	Cond.	Turbidity	DO
Time	Purge Volume	Cumulative Purge Volume	Depth to Water	°C	std units	mV	mS/cm	NTU	mg/l
1334	0.5	0.5	6.81	21.74	4.71	346	24.0	69.5	3.39
1336	0.5	1.0	6.82	21.56	4.70	370	26	64.80	2.98
1339	0.5	1.5	6.82	21.27	4.69	381	26	51.5	3.27
1344	0.5	2.0	6.83	21.18	4.68	388	26	34.5	3.20
1348	0.5	2.5	6.84	21.12	4.66	399	26	20.2	3.05

Sample Collection Time: 1400 Analytical Parameters: VOCs, Ethen/Ethane/Ethene, SO_4, SO_3, NO_4, NO_3, Cl, Fe^{2+}

Remarks:

Volume Calculation, 2-inch well: Water Column (ft) * 0.17 (gal/ft) = Well Volume (gal)
Volume Calculation, 4-inch well: Water Column (ft) * 0.65 (gal/ft) = Well Volume (gal)

GROUNDWATER SAMPLING FIELD PARAMETER DATA SHEET

Well No. MW-5
Date: 12-17-13
Sampling Equipment: Horiba U53
Sampler(s) David Payne
Weather: Sunny/Cool
Well Depth (ft/BTOC): 20'

Screened Interval (ft/BTOC) 10-20
Well Diameter (in) 2"
Depth to Water (ft/BTOC) 7.88
Water Column (ft) 12.12
Well Volume (gal) 2.06
Initial Pump Depth (ft/BTOC): 15'

				Temp.	pH	ORP	Cond.	Turbidity	DO
Time	Purge Volume	Cumulative Purge Volume	Depth to Water	°C	std units	mV	mS/cm	NTU	mg/l
1049	0.5	0.5	7.90	20.11	5.14	231	156	118	3.02
1054		1.0	7.91	18.58	6.13	-54	176	93.5	1.21
10:59		1.5	7.91	18.33	6.17	-61	176	151	0.66
1102		2.0	7.92	18.27	6.16	-64	176	111	0.59
1107		2.5	7.92	18.12	6.17	-71	179	68.4	0.54
1112		3.0	7.92	18.14	6.17	-76	178	59.6	0.52
1117		3.5	7.93	18.07	6.17	-79	178	51.9	0.51
1120		4.0	7.93	18.03	6.17	-82	178	39.9	0.48
1124		4.5	7.93	18.01	6.17	-84	178	28.0	0.52
1129		5.0	7.93	17.99	6.17	-87	179	26.2	0.50
1134		5.5	7.93	17.99	6.17	-86	179	26.0	0.51
1138	✓	6.0	7.93	17.99	6.17	-86	179	25.7	0.50

Sample Collection Time: 1145 Analytical Parameters: VOCs, Methane/Ethane/Ethene, Fe^{2+}, Cl, SO_4, SO_3, NO_4, NO_3

Remarks:

Volume Calculation, 2-inch well: Water Column (ft) * 0.17 (gal/ft) = Well Volume (gal)
Volume Calculation, 4-inch well: Water Column (ft) * 0.65 (gal/ft) = Well Volume (gal)

GROUNDWATER SAMPLING FIELD PARAMETER DATA SHEET

Well No. MW-6
Date: 12-17-13
Sampling Equipment: Horiba U53/Flowcell/Peristaltic/ Teflon lined Tubing
Sampler(s) David Payne
Weather: cold, sunny
Well Depth (ft/BTOC): 20"

Screened Interval (ft/BTOC) 5-20
Well Diameter (in) 2"
Depth to Water (ft/BTOC) 3.3 ft BTOC
Water Column (ft) 16.7
Well Volume (gal) 2.84 x3 = 8.52
Initial Pump Depth (ft/BTOC): ~~8.52~~ 15.0

Time	Purge Volume	Cumulative Purge Volume	Depth to Water	Temp. °C	pH (A) std units	ORP mV	Cond. (A) µS/cm	Turbidity NTU	DO (A) mg/l
1526	0.5	0.5	3.79	19.24	5.20	258	23	250	3.16
1531	0.5	1.0	3.81	17.89	5.78	160	40	68.6	2.17
1534	0.5	1.5	3.82	16.45	5.59	69	50	28.5	1.26
1537	0.5	2.0	3.82	15.85	5.78	12	55	19.2	0.7
1539	0.5	2.5	3.81	15.77 ✓	5.81 ✓	4	58 ✓	11.8	0.63 ✓
1542	0.5	3.0	3.81	15.58 ✓	5.86 ✓	-11	67 ✓	8.68	0.53 ✓
1545	0.5	3.5	3.81	15.54 ✓	5.88 ✓	-15	69 ✓	21.8	0.52 ✓
1548	0.5	4.0	3.81	15.54 ✓	5.90 ✓	-20	70 ✓	4.28	0.48 ✓
1551	0.5	4.5	3.81	15.56 ✓	5.89 ✓	-21	71 ✓	4.70	0.46 ✓

Sample Collection Time: 1600 Analytical Parameters: VOCs, methane/ethane/ethene, Cl, Fe^{2+}, SO_3, SO_4, NO_2/NO_3

Remarks:

Pinkish orange suspended material (Bacteria?)
Did not appear to affect turbidity

Volume Calculation, 2-inch well: Water Column (ft) * 0.17 (gal/ft) = Well Volume (gal)
Volume Calculation, 4-inch well: Water Column (ft) * 0.65 (gal/ft) = Well Volume (gal)

GROUNDWATER SAMPLING FIELD PARAMETER DATA SHEET

Well No. MW-7
Date: 12-17-13
Sampling Equipment: Peristaltic/Teflon Lined Tubing, Horiba U53 Flow thru cell
Sampler(s) David Payne
Weather: Cool/sunny
Well Depth (ft/BTOC): 9.9 (BTOC)

Screened Interval (ft/BTOC) 2-6
Well Diameter (in) 2"
Depth to Water (ft/BTOC) 4.6
Water Column (ft) 5.3
Well Volume (gal) .22 X 3 = 0.66
Initial Pump Depth (ft/BTOC): 6.5

Time	Purge Volume	Cumulative Purge Volume	Depth to Water	Temp. °C	pH std units	ORP mV	Cond. µS/cm	Turbidity NTU	DO mg/l
1626	0.5	0.5	4.90	13.45	5.27	156	1300	42.5	12.02
1630	0.5	1.0	4.91	13.39	5.15 ✓	150	301	29.6	5.02
1635	0.5	1.5	4.92	13.20	5.18 ✓	134	183	26.2	2.07
1640	0.5	2.0	4.92	13.00	5.25 ✓	122	225 x	20.8	1.67 x
1645	0.5	2.5	4.93	13.01	5.26 ✓	128	218 ✓	20.4	1.66 ✓
1650	0.5	3.0	4.92	13.00	5.26 ✓	134	209 ✓	19.1	1.64 ✓
1655	0.5	3.5	4.92	13.00	5.26 ✓	119	212 ✓	19.6	1.64 ✓

Sample Collection Time: 1700
Analytical Parameters: VOCs, Methane/ethane/ethene, Fe^{2+}, Cl, SO_3, SO_4, NO_2/NO_3

Remarks:

Volume Calculation, 2-inch well: Water Column (ft) * 0.17 (gal/ft) = Well Volume (gal)
Volume Calculation, 4-inch well: Water Column (ft) * 0.65 (gal/ft) = Well Volume (gal)

APPENDIX L

LABORATORY ANALYTICAL REPORTS WITH CHAIN OF CUSTODY RECORDS

(The laboratory Analytical Report for January 23, 2013 is presented in Appendix F. The laboratory Analytical Report for March 7-8, 2013 is presented in Appendix G.)

Analytical Report 465343

for

Mill Creek Environmental Services

Project Manager: Dan Centofanti

Apex Village

AV-1301-6

28-JUN-13

Collected By: Client

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Lakeland: Florida (E84098)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

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XENCO Laboratories
Florida Testing Services, LLC

28-JUN-13

Project Manager: **Dan Centofanti**
Mill Creek Environmental Services
1818 Perimeter Road
Dawsonville, GA 30534

Reference: XENCO Report No(s): **465343**
Apex Village
Project Address: GA

Dan Centofanti:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 465343. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 465343 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

David C. Fuller
Client Services Director

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America

Sample Cross Reference 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-4, 12'	S	06-17-13 14:50		465343-001
MW-4, 16'	S	06-17-13 15:00		465343-002
MW-1	W	06-18-13 14:15		465343-003
MW-2	W	06-18-13 14:40		465343-004
MW-3	W	06-18-13 15:00		465343-005
MW-4	W	06-18-13 15:20		465343-006
Trip Blank	W	06-18-13 00:00		465343-007

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-916732 Select Metals by SW-846 6010C
SW6010C

Batch 916732, Iron, Magnesium, Titanium recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Aluminum, Calcium, Phosphorus, Potassium, Silicon, Sulfur recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Manganese recovered above QC limits in the Matrix Spike Duplicate.
Samples affected are: 465343-002, -001.
The Laboratory Control Sample for Aluminum, Magnesium, Sulfur, Calcium, Iron, Manganese, Silicon, Titanium, Potassium, Phosphorus is within laboratory Control Limits

SW6010C

Batch 916732, Calcium, Phosphorus, Sulfur RPD was outside QC limits.
Samples affected are: 465343-002, -001

Batch: LBA-916744 SVOCs by SW-846 8270D
SW8270D_ATL

Batch 916744, 2-Fluorophenol, Phenol-d5 recovered below QC limits Data confirmed by re-analysis.
Samples affected are: 639993-1-BLK.

SW8270D_ATL

Batch 916744, Hexachlorocyclopentadiene recovered below QC limits in the Matrix Spike Duplicate.
Samples affected are: 465343-002, -001.
The Laboratory Control Sample for Hexachlorocyclopentadiene is within laboratory Control Limits

CASE NARRATIVE

Client Name: Mill Creek Environmental Services
Project Name: Apex Village

Project ID: *AV-1301-6*
Work Order Number(s): *465343*

Report Date: *28-JUN-13*
Date Received: *06/19/2013*

Batch: LBA-916748 VOCs by SW-846 8260B
SW8260B_ATL

Batch 916748, Vinyl acetate recovered below QC limits in the Matrix Spike Duplicate.
Samples affected are: 465343-002, -001.
The Laboratory Control Sample for Vinyl acetate is within laboratory Control Limits

Batch: LBA-916782 MADEP VPH REV 1.1
VPH_ATL

Batch 916782, C9-C12 Aliphatics (Unadj.) recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 465343-006.
The Laboratory Control Sample for C9-C12 Aliphatics (Unadj.) is within laboratory Control Limits

Batch: LBA-917159 VOCs by GC/MS by SM6200B
SM6200B

Batch 917159, cis-1,3-Dichloropropene recovered above QC limits in the Matrix Spike.
Samples affected are: 465343-007, -006.
The Laboratory Control Sample for cis-1,3-Dichloropropene is within laboratory Control Limits

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantiation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Hits Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id : **MW-4, 12'**
Lab Sample Id : 465343-001

Matrix : Soil
Date Collected : 06.17.13 14.50
Date Received : 06.19.13 10.00

% Moisture :
Basis : Wet Weight

Analytical Method : Select Metals by SW-846 6010C
Seq Number 916732

Prep Method: SW3050B
Date Prep: 06.20.13 10.40

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	3.98	mg/kg	06.20.13 17.13	J	1
Lead	7439-92-1	7.40	mg/kg	06.20.13 17.13		1

Analytical Method : VOCs by SW-846 8260B
Seq Number 916748

Prep Method: SW5035
Date Prep: 06.20.13 07.45

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
1,2,4-Trimethylbenzene	95-63-6	0.013	mg/kg	06.20.13 14.03		1
m,p-Xylenes	179601-23-1	0.00114	mg/kg	06.20.13 14.03	J	1
Naphthalene	91-20-3	0.013	mg/kg	06.20.13 14.03		1
n-Propylbenzene	103-65-1	0.0012	mg/kg	06.20.13 14.03		1
o-Xylene	95-47-6	0.00101	mg/kg	06.20.13 14.03		1

Hits Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id : **MW-4, 16'**
Lab Sample Id :465343-002

Matrix : Soil
Date Collected :06.17.13 15.00
Date Received :06.19.13 10.00

% Moisture :
Basis : Wet Weight

Analytical Method : EPH by MADEP Method
Seq Number 917187

Prep Method: SW3550
Date Prep: 06.20.13 12.40

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
Unadjusted C11-C22 Aromatics	C11C22	30.0	mg/kg	06.26.13 04.41		1

Analytical Method : Select Metals by SW-846 6010C
Seq Number 916732

Prep Method: SW3050B
Date Prep: 06.20.13 10.40

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	3.25	mg/kg	06.20.13 17.15	J	1
Lead	7439-92-1	4.91	mg/kg	06.20.13 17.15		1

Analytical Method : VOCs by SW-846 8260B
Seq Number 916748

Prep Method: SW5035
Date Prep: 06.20.13 07.45

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
1,2,4-Trimethylbenzene	95-63-6	0.0069	mg/kg	06.20.13 14.29		1
1,3,5-Trimethylbenzene	108-67-8	0.0015	mg/kg	06.20.13 14.29		1
Naphthalene	91-20-3	0.0061	mg/kg	06.20.13 14.29		1

Hits Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id : **MW-2**
Lab Sample Id :465343-004

Matrix : Ground Water
Date Collected :06.18.13 14.40
Date Received :06.19.13 10.00

% Moisture :

Analytical Method : VOCs by SW-846 8260B
Seq Number 916874

Prep Method: SW5030B
Date Prep: 06.22.13 08.09

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
cis-1,2-Dichloroethene	156-59-2	13.8	ug/L	06.22.13 18.26		1
Tetrachloroethene	127-18-4	30.4	ug/L	06.22.13 18.26		1
Toluene	108-88-3	1.06	ug/L	06.22.13 18.26		1
Trichloroethene	79-01-6	14.6	ug/L	06.22.13 18.26		1

Hits Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id : **MW-3**
Lab Sample Id :465343-005

Matrix : Ground Water
Date Collected :06.18.13 15.00
Date Received :06.19.13 10.00

% Moisture :

Analytical Method : VOCs by SW-846 8260B
Seq Number 916874

Prep Method: SW5030B
Date Prep: 06.22.13 08.09

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
cis-1,2-Dichloroethene	156-59-2	3.49	ug/L	06.22.13 18.52		1
Tetrachloroethene	127-18-4	27.5	ug/L	06.22.13 18.52		1

Hits Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id : **MW-4** Matrix : Ground Water % Moisture :

Lab Sample Id :465343-006 Date Collected :06.18.13 15.20

Date Received :06.19.13 10.00

Analytical Method : EPH by MADEP Method Prep Method: SW3520C

Seq Number 917179 Date Prep: 06.20.13 10.30

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
Unadjusted C11-C22 Aromatics	C11C22	120	ug/L	06.25.13 23.43		1

Analytical Method : MADEP VPH REV 1.1 Prep Method: SW5030B

Seq Number 916782 Date Prep: 06.20.13 08.13

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
C9-C10 Aromatics (Unadj.)	HYDC9C10	20.0	ug/L	06.20.13 16.25		1
C9-C12 Aliphatics (Unadj.)	ALHYDRC9	50.0	ug/L	06.20.13 16.25	X	1

Analytical Method : SVOCs by EPA 625M + 10 TICs Prep Method: E625P

Seq Number 917130 Date Prep: 06.21.13 14.00

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
2-Methylnaphthalene	91-57-6	1.56	ug/L	06.28.13 14.41	J	1
Bis(2-ethylhexyl) phthalate	117-81-7	1.57	ug/L	06.28.13 14.41	J	1
Naphthalene	91-20-3	1.92	ug/L	06.28.13 14.41	J	1
3-Phenylbut-1-ene (TIC)	TIC	4.27	ug/L	06.28.13 14.41	JN	1
Hexadecane, 7,9-dimethyl- (TIC)	TIC	4.84	ug/L	06.28.13 14.41	JN	1
Squalene (TIC)	TIC	5.62	ug/L	06.28.13 14.41	JN	1
n-Hexadecanoic acid (TIC)	TIC	64.2	ug/L	06.28.13 14.41	JN	1
Octadecanoic acid (TIC)	TIC	76.4	ug/L	06.28.13 14.41	JN	1
Diisooctyl adipate (TIC)	TIC	8.22	ug/L	06.28.13 14.41	JN	1

Analytical Method : VOCs by GC/MS by SM6200B Prep Method: SM6200B_PREP

Seq Number 917159 Date Prep: 06.26.13 07.23

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
1,2,4-Trimethylbenzene	95-63-6	7.54	ug/L	06.26.13 11.39		1
Chloroform	67-66-3	1.50	ug/L	06.26.13 11.39		1
Isopropylbenzene	98-82-8	0.220	ug/L	06.26.13 11.39	J	1
Naphthalene	91-20-3	8.05	ug/L	06.26.13 11.39		1
n-Propylbenzene	103-65-1	0.610	ug/L	06.26.13 11.39	J	1
Tetrachloroethene (PCE)	127-18-4	0.980	ug/L	06.26.13 11.39		1
m,p-Xylenes	179601-23-1	1.54	ug/L	06.26.13 11.39		1
o-Xylene	95-47-6	1.51	ug/L	06.26.13 11.39		1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 12'** Matrix: Soil Date Received:06.19.13 10.00

Lab Sample Id: 465343-001 Date Collected: 06.17.13 14.50

Analytical Method: Select Metals by SW-846 6010C Prep Method: SW3050B

Tech: 4150 % Moisture:

Analyst: 4150 Date Prep: 06.20.13 10.40 Basis: Wet Weight

Seq Number: 916732

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	**3.98**	4.67	0.0561	mg/kg	06.20.13 17.13	J	1
Lead	7439-92-1	**7.40**	4.67	0.261	mg/kg	06.20.13 17.13		1

Analytical Method: EPH by MADEP Method Prep Method: SW3550

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.20.13 12.40 Basis: Wet Weight

Seq Number: 917187

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Unadjusted C11-C22 Aromatics	C11C22	U	19.8	19.8	mg/kg	06.26.13 03.16	U	1
Unadjusted C9-C18 Aliphatics	ALHYDRC9C18	U	9.92	9.92	mg/kg	06.26.13 11.51	U	1
Unadjusted C19-C36 Aliphatics	ALHYDRC19C3	U	9.92	9.92	mg/kg	06.26.13 11.51	UX	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctadecane	3386-33-2	66	%	40-140	06.26.13 11.51	
o-Terphenyl	84-15-1	77	%	40-140	06.26.13 03.16	
2-Fluorobiphenyl	321-60-8	90	%	40-140	06.26.13 03.16	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 12'** Matrix: Soil Date Received:06.19.13 10.00

Lab Sample Id: 465343-001 Date Collected: 06.17.13 14.50

Analytical Method: SVOCs by SW-846 8270D Prep Method: SW3550

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.20.13 13.38 Basis: Wet Weight

Seq Number: 916744

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2,4-Trichlorobenzene	120-82-1	U	0.332	0.0587	mg/kg	06.20.13 19.20	U	1
1,2-Dichlorobenzene	95-50-1	U	0.332	0.0537	mg/kg	06.20.13 19.20	U	1
1,2-Diphenylhydrazine	122-66-7	U	0.332	0.0365	mg/kg	06.20.13 19.20	U	1
1,3-Dichlorobenzene	541-73-1	U	0.332	0.0524	mg/kg	06.20.13 19.20	U	1
1,4-Dichlorobenzene	106-46-7	U	0.332	0.0517	mg/kg	06.20.13 19.20	U	1
2,4,6-Trichlorophenol	88-06-2	U	0.332	0.0640	mg/kg	06.20.13 19.20	U	1
2,4-Dichlorophenol	120-83-2	U	0.332	0.0421	mg/kg	06.20.13 19.20	U	1
2,4-Dimethylphenol	105-67-9	U	0.332	0.0604	mg/kg	06.20.13 19.20	U	1
2,4-Dinitrophenol	51-28-5	U	0.332	0.0534	mg/kg	06.20.13 19.20	U	1
2,4-Dinitrotoluene	121-14-2	U	0.332	0.0534	mg/kg	06.20.13 19.20	U	1
2,6-Dinitrotoluene	606-20-2	U	0.332	0.0431	mg/kg	06.20.13 19.20	U	1
2-Chloronaphthalene	91-58-7	U	0.332	0.0604	mg/kg	06.20.13 19.20	U	1
2-Chlorophenol	95-57-8	U	0.332	0.0594	mg/kg	06.20.13 19.20	U	1
2-Methylnaphthalene	91-57-6	U	0.332	0.0507	mg/kg	06.20.13 19.20	U	1
2-methylphenol	95-48-7	U	0.332	0.0464	mg/kg	06.20.13 19.20	U	1
2-Nitrophenol	88-75-5	U	0.332	0.0418	mg/kg	06.20.13 19.20	U	1
3&4-Methylphenol	15831-10-4	U	0.332	0.0982	mg/kg	06.20.13 19.20	U	1
3,3-Dichlorobenzidine	91-94-1	U	0.332	0.0484	mg/kg	06.20.13 19.20	U	1
4,6-dinitro-2-methyl phenol	534-52-1	U	0.332	0.0577	mg/kg	06.20.13 19.20	U	1
4-Bromophenyl-phenylether	101-55-3	U	0.332	0.0564	mg/kg	06.20.13 19.20	U	1
4-chloro-3-methylphenol	59-50-7	U	0.332	0.0474	mg/kg	06.20.13 19.20	U	1
4-Chloroaniline	106-47-8	U	0.332	0.0551	mg/kg	06.20.13 19.20	U	1
4-Chlorophenyl Phenyl Ether	7005-72-3	U	0.332	0.0630	mg/kg	06.20.13 19.20	U	1
4-Nitrophenol	100-02-7	U	0.332	0.0408	mg/kg	06.20.13 19.20	U	1
Acenaphthene	83-32-9	U	0.332	0.0464	mg/kg	06.20.13 19.20	U	1
Acenaphthylene	208-96-8	U	0.332	0.0564	mg/kg	06.20.13 19.20	U	1
Anthracene	120-12-7	U	0.332	0.0491	mg/kg	06.20.13 19.20	U	1
Benzo(a)anthracene	56-55-3	U	0.332	0.0537	mg/kg	06.20.13 19.20	U	1
Benzo(a)pyrene	50-32-8	U	0.332	0.0488	mg/kg	06.20.13 19.20	U	1
Benzo(b)fluoranthene	205-99-2	U	0.332	0.0541	mg/kg	06.20.13 19.20	U	1
Benzo(g,h,i)perylene	191-24-2	U	0.332	0.0547	mg/kg	06.20.13 19.20	U	1
Benzo(k)fluoranthene	207-08-9	U	0.332	0.0570	mg/kg	06.20.13 19.20	U	1
Benzoic Acid	65-85-0	U	0.332	0.0524	mg/kg	06.20.13 19.20	U	1
Benzyl Alcohol	100-51-6	U	0.332	0.0531	mg/kg	06.20.13 19.20	U	1
bis(2-chloroethoxy) methane	111-91-1	U	0.332	0.0398	mg/kg	06.20.13 19.20	U	1
bis(2-chloroethyl) ether	111-44-4	U	0.332	0.0471	mg/kg	06.20.13 19.20	U	1
bis(2-chloroisopropyl) ether	39638-32-9	U	0.332	0.0448	mg/kg	06.20.13 19.20	U	1
bis(2-ethylhexyl) phthalate	117-81-7	U	0.332	0.0537	mg/kg	06.20.13 19.20	U	1
Butylbenzylphthalate	85-68-7	U	0.332	0.0498	mg/kg	06.20.13 19.20	U	1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 12'** Matrix: Soil Date Received:06.19.13 10.00

Lab Sample Id: 465343-001 Date Collected: 06.17.13 14.50

Analytical Method: SVOCs by SW-846 8270D Prep Method: SW3550

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.20.13 13.38 Basis: Wet Weight

Seq Number: 916744

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chrysene	218-01-9	U	0.332	0.0441	mg/kg	06.20.13 19.20	U	1
Dibenz(a,h)Anthracene	53-70-3	U	0.332	0.0643	mg/kg	06.20.13 19.20	U	1
Dibenzofuran	132-64-9	U	0.332	0.0425	mg/kg	06.20.13 19.20	U	1
Diethyl Phthalate	84-66-2	U	0.332	0.0534	mg/kg	06.20.13 19.20	U	1
Dimethyl Phthalate	131-11-3	U	0.332	0.0501	mg/kg	06.20.13 19.20	U	1
di-n-Butyl Phthalate	84-74-2	U	0.332	0.0610	mg/kg	06.20.13 19.20	U	1
di-n-Octyl Phthalate	117-84-0	U	0.332	0.0551	mg/kg	06.20.13 19.20	U	1
Fluoranthene	206-44-0	U	0.332	0.0431	mg/kg	06.20.13 19.20	U	1
Fluorene	86-73-7	U	0.332	0.0405	mg/kg	06.20.13 19.20	U	1
Hexachlorobenzene	118-74-1	U	0.332	0.0554	mg/kg	06.20.13 19.20	U	1
Hexachlorobutadiene	87-68-3	U	0.332	0.0368	mg/kg	06.20.13 19.20	U	1
Hexachlorocyclopentadiene	77-47-4	U	0.332	0.0570	mg/kg	06.20.13 19.20	UX	1
Hexachloroethane	67-72-1	U	0.332	0.0514	mg/kg	06.20.13 19.20	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	U	0.332	0.0604	mg/kg	06.20.13 19.20	U	1
Isophorone	78-59-1	U	0.332	0.0342	mg/kg	06.20.13 19.20	U	1
Naphthalene	91-20-3	U	0.332	0.0531	mg/kg	06.20.13 19.20	U	1
Nitrobenzene	98-95-3	U	0.332	0.0590	mg/kg	06.20.13 19.20	U	1
N-Nitrosodi-n-Propylamine	621-64-7	U	0.332	0.0474	mg/kg	06.20.13 19.20	U	1
N-Nitrosodiphenylamine	86-30-6	U	0.332	0.0697	mg/kg	06.20.13 19.20	U	1
Pentachlorophenol	87-86-5	U	0.332	0.0600	mg/kg	06.20.13 19.20	U	1
Phenanthrene	85-01-8	U	0.332	0.0551	mg/kg	06.20.13 19.20	U	1
Phenol	108-95-2	U	0.332	0.0464	mg/kg	06.20.13 19.20	U	1
Pyrene	129-00-0	U	0.332	0.0564	mg/kg	06.20.13 19.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
2-Fluorobiphenyl	321-60-8	56	%	20-112	06.20.13 19.20	
2-Fluorophenol	367-12-4	52	%	18-101	06.20.13 19.20	
Nitrobenzene-d5	4165-60-0	50	%	13-112	06.20.13 19.20	
Phenol-d5	4165-62-2	51	%	15-110	06.20.13 19.20	
Terphenyl-D14	1718-51-0	60	%	21-138	06.20.13 19.20	
2,4,6-Tribromophenol	118-79-6	69	%	21-128	06.20.13 19.20	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id:	**MW-4, 12'**	Matrix:	Soil	Date Received:	06.19.13 10.00
Lab Sample Id:	465343-001	Date Collected:	06.17.13 14.50		

Analytical Method:	MADEP VPH REV 1.1			Prep Method:	SW5030B
Tech:	BAT			% Moisture:	
Analyst:	MLA	Date Prep:	06.26.13 07.39	Basis:	Wet Weight
Seq Number:	917180				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Unadjusted C5-C8 Aliphatics	ALHYDRC5C8	U	0.750	0.750	mg/kg	06.26.13 11.46	U	50
Unadjusted C9-C12 Aliphatics	ALHYDRC9C1	U	0.750	0.750	mg/kg	06.26.13 11.46	U	50
Unadjusted C9-C10 Aromatics	HYDC9C10	U	0.250	0.250	mg/kg	06.26.13 11.46	U	50

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
2,5-Dibromotoluene	615-59-8	125	%	70-130	06.26.13 11.46	
2,5-Dibromotoluene (PID)	615-59-8	125	%	70-130	06.26.13 11.46	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 12'** Matrix: Soil Date Received:06.19.13 10.00

Lab Sample Id: 465343-001 Date Collected: 06.17.13 14.50

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5035

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.20.13 07.45 Basis: Wet Weight

Seq Number: 916748

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	0.00084	0.00063	mg/kg	06.20.13 14.03	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.0017	0.00100	mg/kg	06.20.13 14.03	U	1
1,1,2-Trichloroethane	79-00-5	U	0.00084	0.00056	mg/kg	06.20.13 14.03	U	1
1,1-Dichloroethane	75-34-3	U	0.00084	0.00067	mg/kg	06.20.13 14.03	U	1
1,1-Dichloroethene	75-35-4	U	0.0017	0.00097	mg/kg	06.20.13 14.03	U	1
1,1-Dichloropropene	563-58-6	U	0.00084	0.00045	mg/kg	06.20.13 14.03	U	1
1,2,3-Trichlorobenzene	87-61-6	U	0.00084	0.00048	mg/kg	06.20.13 14.03	U	1
1,2,3-Trichloropropane	96-18-4	U	0.0017	0.0014	mg/kg	06.20.13 14.03	U	1
1,2,4-Trichlorobenzene	120-82-1	U	0.00084	0.00073	mg/kg	06.20.13 14.03	U	1
1,2,4-Trimethylbenzene	95-63-6	**0.013**	0.00084	0.00060	mg/kg	06.20.13 14.03		1
1,2-Dibromoethane (EDB)	106-93-4	U	0.00084	0.00072	mg/kg	06.20.13 14.03	U	1
1,2-Dichlorobenzene	95-50-1	U	0.0017	0.0011	mg/kg	06.20.13 14.03	U	1
1,2-Dichloroethane	107-06-2	U	0.00084	0.00050	mg/kg	06.20.13 14.03	U	1
1,2-Dichloropropane	78-87-5	U	0.00084	0.00078	mg/kg	06.20.13 14.03	U	1
1,3,5-Trimethylbenzene	108-67-8	U	0.00084	0.00068	mg/kg	06.20.13 14.03	U	1
1,3-Dichlorobenzene	541-73-1	U	0.00084	0.00084	mg/kg	06.20.13 14.03	U	1
1,3-Dichloropropane	142-28-9	U	0.00084	0.00058	mg/kg	06.20.13 14.03	U	1
1,4-Dichlorobenzene	106-46-7	U	0.00084	0.00057	mg/kg	06.20.13 14.03	U	1
2,2-Dichloropropane	594-20-7	U	0.00084	0.00050	mg/kg	06.20.13 14.03	U	1
2-Butanone (MEK)	78-93-3	U	0.0084	0.0019	mg/kg	06.20.13 14.03	U	1
2-Chlorotoluene	95-49-8	U	0.00084	0.00059	mg/kg	06.20.13 14.03	U	1
2-Hexanone	591-78-6	U	0.0084	0.00095	mg/kg	06.20.13 14.03	U	1
4-Chlorotoluene	106-43-4	U	0.00084	0.00046	mg/kg	06.20.13 14.03	U	1
4-Isopropyltoluene	99-87-6	U	0.00084	0.00067	mg/kg	06.20.13 14.03	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	0.0084	0.0027	mg/kg	06.20.13 14.03	U	1
Acetone	67-64-1	U	0.0084	0.0058	mg/kg	06.20.13 14.03	U	1
Benzene	71-43-2	U	0.00084	0.00043	mg/kg	06.20.13 14.03	U	1
Bromobenzene	108-86-1	U	0.00084	0.00072	mg/kg	06.20.13 14.03	U	1
Bromochloromethane	74-97-5	U	0.0017	0.00084	mg/kg	06.20.13 14.03	U	1
Bromodichloromethane	75-27-4	U	0.00084	0.00042	mg/kg	06.20.13 14.03	U	1
Bromoform	75-25-2	U	0.00084	0.00080	mg/kg	06.20.13 14.03	U	1
Bromomethane	74-83-9	U	0.0042	0.0021	mg/kg	06.20.13 14.03	U	1
Carbon tetrachloride	56-23-5	U	0.00084	0.00062	mg/kg	06.20.13 14.03	U	1
Chlorobenzene	108-90-7	U	0.00084	0.00049	mg/kg	06.20.13 14.03	U	1
Chlorodibromomethane	124-48-1	U	0.00084	0.00083	mg/kg	06.20.13 14.03	U	1
Chloroethane	75-00-3	U	0.0042	0.0021	mg/kg	06.20.13 14.03	U	1
Chloroform	67-66-3	U	0.00084	0.00062	mg/kg	06.20.13 14.03	U	1
Chloromethane	74-87-3	U	0.0042	0.0019	mg/kg	06.20.13 14.03	U	1
cis-1,2-Dichloroethene	156-59-2	U	0.00084	0.00056	mg/kg	06.20.13 14.03	U	1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 12'** Matrix: Soil Date Received:06.19.13 10.00

Lab Sample Id: 465343-001 Date Collected: 06.17.13 14.50

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5035

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.20.13 07.45 Basis: Wet Weight

Seq Number: 916748

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	0.00084	0.00045	mg/kg	06.20.13 14.03	U	1
Dichlorodifluoromethane	75-71-8	U	0.0017	0.00099	mg/kg	06.20.13 14.03	U	1
Ethanol	64-17-5	U	0.042	0.024	mg/kg	06.20.13 14.03	U	1
Ethylbenzene	100-41-4	U	0.00084	0.00047	mg/kg	06.20.13 14.03	U	1
Isopropyl Ether	108-20-3	U	0.0017	0.0011	mg/kg	06.20.13 14.03	U	1
Isopropylbenzene	98-82-8	U	0.00084	0.00064	mg/kg	06.20.13 14.03	U	1
m,p-Xylenes	179601-23-1	**0.00114**	0.00168	0.00101	mg/kg	06.20.13 14.03	J	1
Methyl tert-butyl ether	1634-04-4	U	0.0017	0.00058	mg/kg	06.20.13 14.03	U	1
Methylene chloride	75-09-2	U	0.0042	0.0018	mg/kg	06.20.13 14.03	U	1
Naphthalene	91-20-3	**0.013**	0.0017	0.0011	mg/kg	06.20.13 14.03		1
n-Butylbenzene	104-51-8	U	0.00084	0.00074	mg/kg	06.20.13 14.03	U	1
n-Propylbenzene	103-65-1	**0.0012**	0.00084	0.00066	mg/kg	06.20.13 14.03		1
o-Xylene	95-47-6	**0.00101**	0.000839	0.000601	mg/kg	06.20.13 14.03		1
sec-Butylbenzene	135-98-8	U	0.00084	0.00055	mg/kg	06.20.13 14.03	U	1
Styrene	100-42-5	U	0.00084	0.00062	mg/kg	06.20.13 14.03	U	1
tert-Butylbenzene	98-06-6	U	0.00084	0.00070	mg/kg	06.20.13 14.03	U	1
Tetrachloroethene	127-18-4	U	0.0017	0.00087	mg/kg	06.20.13 14.03	U	1
Toluene	108-88-3	U	0.00084	0.00049	mg/kg	06.20.13 14.03	U	1
trans-1,2-Dichloroethene	156-60-5	U	0.00084	0.00065	mg/kg	06.20.13 14.03	U	1
trans-1,3-Dichloropropene	10061-02-6	U	0.00084	0.00056	mg/kg	06.20.13 14.03	U	1
Trichloroethene	79-01-6	U	0.00084	0.00059	mg/kg	06.20.13 14.03	U	1
Trichlorofluoromethane	75-69-4	U	0.0042	0.0029	mg/kg	06.20.13 14.03	U	1
Vinyl acetate	108-05-4	U	0.0042	0.00060	mg/kg	06.20.13 14.03	U	1
Vinyl chloride	75-01-4	U	0.0042	0.0017	mg/kg	06.20.13 14.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	109	%	50-150	06.20.13 14.03	
4-Bromofluorobenzene	460-00-4	103	%	57-158	06.20.13 14.03	
Toluene-D8	2037-26-5	96	%	50-150	06.20.13 14.03	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 16'** Matrix: Soil Date Received:06.19.13 10.00

Lab Sample Id: 465343-002 Date Collected: 06.17.13 15.00

Analytical Method: Select Metals by SW-846 6010C Prep Method: SW3050B

Tech: 4150 % Moisture:

Analyst: 4150 Date Prep: 06.20.13 10.40 Basis: Wet Weight

Seq Number: 916732

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	**3.25**	3.62	0.0435	mg/kg	06.20.13 17.15	J	1
Lead	7439-92-1	**4.91**	3.62	0.202	mg/kg	06.20.13 17.15		1

Analytical Method: EPH by MADEP Method Prep Method: SW3550

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.20.13 12.40 Basis: Wet Weight

Seq Number: 917187

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Unadjusted C11-C22 Aromatics	C11C22	**30.0**	19.8	19.8	mg/kg	06.26.13 04.41		1
Unadjusted C9-C18 Aliphatics	ALHYDRC9C18	U	9.89	9.89	mg/kg	06.26.13 13.09	U	1
Unadjusted C19-C36 Aliphatics	ALHYDRC19C3	U	9.89	9.89	mg/kg	06.26.13 13.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctadecane	3386-33-2	63	%	40-140	06.26.13 13.09	
o-Terphenyl	84-15-1	69	%	40-140	06.26.13 04.41	
2-Fluorobiphenyl	321-60-8	44	%	40-140	06.26.13 04.41	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 16'**
Lab Sample Id: 465343-002

Matrix: Soil
Date Collected: 06.17.13 15.00

Date Received: 06.19.13 10.00

Analytical Method: SVOCs by SW-846 8270D
Tech: BRO
Analyst: NTR
Seq Number: 916744

Date Prep: 06.20.13 13.38

Prep Method: SW3550
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2,4-Trichlorobenzene	120-82-1	U	0.333	0.0589	mg/kg	06.20.13 19.48	U	1
1,2-Dichlorobenzene	95-50-1	U	0.333	0.0539	mg/kg	06.20.13 19.48	U	1
1,2-Diphenylhydrazine	122-66-7	U	0.333	0.0366	mg/kg	06.20.13 19.48	U	1
1,3-Dichlorobenzene	541-73-1	U	0.333	0.0526	mg/kg	06.20.13 19.48	U	1
1,4-Dichlorobenzene	106-46-7	U	0.333	0.0519	mg/kg	06.20.13 19.48	U	1
2,4,6-Trichlorophenol	88-06-2	U	0.333	0.0642	mg/kg	06.20.13 19.48	U	1
2,4-Dichlorophenol	120-83-2	U	0.333	0.0422	mg/kg	06.20.13 19.48	U	1
2,4-Dimethylphenol	105-67-9	U	0.333	0.0605	mg/kg	06.20.13 19.48	U	1
2,4-Dinitrophenol	51-28-5	U	0.333	0.0536	mg/kg	06.20.13 19.48	U	1
2,4-Dinitrotoluene	121-14-2	U	0.333	0.0536	mg/kg	06.20.13 19.48	U	1
2,6-Dinitrotoluene	606-20-2	U	0.333	0.0432	mg/kg	06.20.13 19.48	U	1
2-Chloronaphthalene	91-58-7	U	0.333	0.0605	mg/kg	06.20.13 19.48	U	1
2-Chlorophenol	95-57-8	U	0.333	0.0595	mg/kg	06.20.13 19.48	U	1
2-Methylnaphthalene	91-57-6	U	0.333	0.0509	mg/kg	06.20.13 19.48	U	1
2-methylphenol	95-48-7	U	0.333	0.0466	mg/kg	06.20.13 19.48	U	1
2-Nitrophenol	88-75-5	U	0.333	0.0419	mg/kg	06.20.13 19.48	U	1
3&4-Methylphenol	15831-10-4	U	0.333	0.0985	mg/kg	06.20.13 19.48	U	1
3,3-Dichlorobenzidine	91-94-1	U	0.333	0.0486	mg/kg	06.20.13 19.48	U	1
4,6-dinitro-2-methyl phenol	534-52-1	U	0.333	0.0579	mg/kg	06.20.13 19.48	U	1
4-Bromophenyl-phenylether	101-55-3	U	0.333	0.0566	mg/kg	06.20.13 19.48	U	1
4-chloro-3-methylphenol	59-50-7	U	0.333	0.0476	mg/kg	06.20.13 19.48	U	1
4-Chloroaniline	106-47-8	U	0.333	0.0552	mg/kg	06.20.13 19.48	U	1
4-Chlorophenyl Phenyl Ether	7005-72-3	U	0.333	0.0632	mg/kg	06.20.13 19.48	U	1
4-Nitrophenol	100-02-7	U	0.333	0.0409	mg/kg	06.20.13 19.48	U	1
Acenaphthene	83-32-9	U	0.333	0.0466	mg/kg	06.20.13 19.48	U	1
Acenaphthylene	208-96-8	U	0.333	0.0566	mg/kg	06.20.13 19.48	U	1
Anthracene	120-12-7	U	0.333	0.0492	mg/kg	06.20.13 19.48	U	1
Benzo(a)anthracene	56-55-3	U	0.333	0.0539	mg/kg	06.20.13 19.48	U	1
Benzo(a)pyrene	50-32-8	U	0.333	0.0489	mg/kg	06.20.13 19.48	U	1
Benzo(b)fluoranthene	205-99-2	U	0.333	0.0542	mg/kg	06.20.13 19.48	U	1
Benzo(g,h,i)perylene	191-24-2	U	0.333	0.0549	mg/kg	06.20.13 19.48	U	1
Benzo(k)fluoranthene	207-08-9	U	0.333	0.0572	mg/kg	06.20.13 19.48	U	1
Benzoic Acid	65-85-0	U	0.333	0.0526	mg/kg	06.20.13 19.48	U	1
Benzyl Alcohol	100-51-6	U	0.333	0.0532	mg/kg	06.20.13 19.48	U	1
bis(2-chloroethoxy) methane	111-91-1	U	0.333	0.0399	mg/kg	06.20.13 19.48	U	1
bis(2-chloroethyl) ether	111-44-4	U	0.333	0.0472	mg/kg	06.20.13 19.48	U	1
bis(2-chloroisopropyl) ether	39638-32-9	U	0.333	0.0449	mg/kg	06.20.13 19.48	U	1
bis(2-ethylhexyl) phthalate	117-81-7	U	0.333	0.0539	mg/kg	06.20.13 19.48	U	1
Butylbenzylphthalate	85-68-7	U	0.333	0.0499	mg/kg	06.20.13 19.48	U	1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 16'**
Lab Sample Id: 465343-002

Matrix: Soil
Date Collected: 06.17.13 15.00

Date Received: 06.19.13 10.00

Analytical Method: SVOCs by SW-846 8270D
Tech: BRO
Analyst: NTR
Seq Number: 916744

Date Prep: 06.20.13 13.38

Prep Method: SW3550
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chrysene	218-01-9	U	0.333	0.0442	mg/kg	06.20.13 19.48	U	1
Dibenz(a,h)Anthracene	53-70-3	U	0.333	0.0645	mg/kg	06.20.13 19.48	U	1
Dibenzofuran	132-64-9	U	0.333	0.0426	mg/kg	06.20.13 19.48	U	1
Diethyl Phthalate	84-66-2	U	0.333	0.0536	mg/kg	06.20.13 19.48	U	1
Dimethyl Phthalate	131-11-3	U	0.333	0.0502	mg/kg	06.20.13 19.48	U	1
di-n-Butyl Phthalate	84-74-2	U	0.333	0.0612	mg/kg	06.20.13 19.48	U	1
di-n-Octyl Phthalate	117-84-0	U	0.333	0.0552	mg/kg	06.20.13 19.48	U	1
Fluoranthene	206-44-0	U	0.333	0.0432	mg/kg	06.20.13 19.48	U	1
Fluorene	86-73-7	U	0.333	0.0406	mg/kg	06.20.13 19.48	U	1
Hexachlorobenzene	118-74-1	U	0.333	0.0556	mg/kg	06.20.13 19.48	U	1
Hexachlorobutadiene	87-68-3	U	0.333	0.0369	mg/kg	06.20.13 19.48	U	1
Hexachlorocyclopentadiene	77-47-4	U	0.333	0.0572	mg/kg	06.20.13 19.48	U	1
Hexachloroethane	67-72-1	U	0.333	0.0516	mg/kg	06.20.13 19.48	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	U	0.333	0.0605	mg/kg	06.20.13 19.48	U	1
Isophorone	78-59-1	U	0.333	0.0343	mg/kg	06.20.13 19.48	U	1
Naphthalene	91-20-3	U	0.333	0.0532	mg/kg	06.20.13 19.48	U	1
Nitrobenzene	98-95-3	U	0.333	0.0592	mg/kg	06.20.13 19.48	U	1
N-Nitrosodi-n-Propylamine	621-64-7	U	0.333	0.0476	mg/kg	06.20.13 19.48	U	1
N-Nitrosodiphenylamine	86-30-6	U	0.333	0.0699	mg/kg	06.20.13 19.48	U	1
Pentachlorophenol	87-86-5	U	0.333	0.0602	mg/kg	06.20.13 19.48	U	1
Phenanthrene	85-01-8	U	0.333	0.0552	mg/kg	06.20.13 19.48	U	1
Phenol	108-95-2	U	0.333	0.0466	mg/kg	06.20.13 19.48	U	1
Pyrene	129-00-0	U	0.333	0.0566	mg/kg	06.20.13 19.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
2-Fluorobiphenyl	321-60-8	67	%	20-112	06.20.13 19.48	
2-Fluorophenol	367-12-4	62	%	18-101	06.20.13 19.48	
Nitrobenzene-d5	4165-60-0	62	%	13-112	06.20.13 19.48	
Phenol-d5	4165-62-2	60	%	15-110	06.20.13 19.48	
Terphenyl-D14	1718-51-0	79	%	21-138	06.20.13 19.48	
2,4,6-Tribromophenol	118-79-6	83	%	21-128	06.20.13 19.48	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id:	**MW-4, 16'**	Matrix:	Soil	Date Received:	06.19.13 10.00
Lab Sample Id:	465343-002	Date Collected:	06.17.13 15.00		

Analytical Method:	MADEP VPH REV 1.1			Prep Method:	SW5030B
Tech:	BAT			% Moisture:	
Analyst:	MLA	Date Prep:	06.26.13 07.39	Basis:	Wet Weight
Seq Number:	917180				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Unadjusted C5-C8 Aliphatics	ALHYDRC5C8	U	0.750	0.750	mg/kg	06.26.13 12.30	U	50
Unadjusted C9-C12 Aliphatics	ALHYDRC9C1	U	0.750	0.750	mg/kg	06.26.13 12.30	U	50
Unadjusted C9-C10 Aromatics	HYDC9C10	U	0.250	0.250	mg/kg	06.26.13 12.30	U	50

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
2,5-Dibromotoluene	615-59-8	75	%	70-130	06.26.13 12.30	
2,5-Dibromotoluene (PID)	615-59-8	75	%	70-130	06.26.13 12.30	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 16'** Matrix: Soil Date Received:06.19.13 10.00

Lab Sample Id: 465343-002 Date Collected: 06.17.13 15.00

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5035

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.20.13 07.45 Basis: Wet Weight

Seq Number: 916748

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	0.00087	0.00066	mg/kg	06.20.13 14.29	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.0017	0.0010	mg/kg	06.20.13 14.29	U	1
1,1,2-Trichloroethane	79-00-5	U	0.00087	0.00058	mg/kg	06.20.13 14.29	U	1
1,1-Dichloroethane	75-34-3	U	0.00087	0.00070	mg/kg	06.20.13 14.29	U	1
1,1-Dichloroethene	75-35-4	U	0.0017	0.0010	mg/kg	06.20.13 14.29	U	1
1,1-Dichloropropene	563-58-6	U	0.00087	0.00047	mg/kg	06.20.13 14.29	U	1
1,2,3-Trichlorobenzene	87-61-6	U	0.00087	0.00050	mg/kg	06.20.13 14.29	U	1
1,2,3-Trichloropropane	96-18-4	U	0.0017	0.0014	mg/kg	06.20.13 14.29	U	1
1,2,4-Trichlorobenzene	120-82-1	U	0.00087	0.00076	mg/kg	06.20.13 14.29	U	1
1,2,4-Trimethylbenzene	95-63-6	**0.0069**	0.00087	0.00063	mg/kg	06.20.13 14.29		1
1,2-Dibromoethane (EDB)	106-93-4	U	0.00087	0.00075	mg/kg	06.20.13 14.29	U	1
1,2-Dichlorobenzene	95-50-1	U	0.0017	0.0011	mg/kg	06.20.13 14.29	U	1
1,2-Dichloroethane	107-06-2	U	0.00087	0.00052	mg/kg	06.20.13 14.29	U	1
1,2-Dichloropropane	78-87-5	U	0.00087	0.00081	mg/kg	06.20.13 14.29	U	1
1,3,5-Trimethylbenzene	108-67-8	**0.0015**	0.00087	0.00071	mg/kg	06.20.13 14.29		1
1,3-Dichlorobenzene	541-73-1	U	0.00087	0.00087	mg/kg	06.20.13 14.29	U	1
1,3-Dichloropropane	142-28-9	U	0.00087	0.00060	mg/kg	06.20.13 14.29	U	1
1,4-Dichlorobenzene	106-46-7	U	0.00087	0.00060	mg/kg	06.20.13 14.29	U	1
2,2-Dichloropropane	594-20-7	U	0.00087	0.00052	mg/kg	06.20.13 14.29	U	1
2-Butanone (MEK)	78-93-3	U	0.0087	0.0020	mg/kg	06.20.13 14.29	U	1
2-Chlorotoluene	95-49-8	U	0.00087	0.00062	mg/kg	06.20.13 14.29	U	1
2-Hexanone	591-78-6	U	0.0087	0.00098	mg/kg	06.20.13 14.29	U	1
4-Chlorotoluene	106-43-4	U	0.00087	0.00048	mg/kg	06.20.13 14.29	U	1
4-Isopropyltoluene	99-87-6	U	0.00087	0.00070	mg/kg	06.20.13 14.29	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	0.0087	0.0028	mg/kg	06.20.13 14.29	U	1
Acetone	67-64-1	U	0.0087	0.0060	mg/kg	06.20.13 14.29	U	1
Benzene	71-43-2	U	0.00087	0.00045	mg/kg	06.20.13 14.29	U	1
Bromobenzene	108-86-1	U	0.00087	0.00074	mg/kg	06.20.13 14.29	U	1
Bromochloromethane	74-97-5	U	0.0017	0.00088	mg/kg	06.20.13 14.29	U	1
Bromodichloromethane	75-27-4	U	0.00087	0.00044	mg/kg	06.20.13 14.29	U	1
Bromoform	75-25-2	U	0.00087	0.00084	mg/kg	06.20.13 14.29	U	1
Bromomethane	74-83-9	U	0.0044	0.0021	mg/kg	06.20.13 14.29	U	1
Carbon tetrachloride	56-23-5	U	0.00087	0.00065	mg/kg	06.20.13 14.29	U	1
Chlorobenzene	108-90-7	U	0.00087	0.00050	mg/kg	06.20.13 14.29	U	1
Chlorodibromomethane	124-48-1	U	0.00087	0.00087	mg/kg	06.20.13 14.29	U	1
Chloroethane	75-00-3	U	0.0044	0.0021	mg/kg	06.20.13 14.29	U	1
Chloroform	67-66-3	U	0.00087	0.00065	mg/kg	06.20.13 14.29	U	1
Chloromethane	74-87-3	U	0.0044	0.0020	mg/kg	06.20.13 14.29	U	1
cis-1,2-Dichloroethene	156-59-2	U	0.00087	0.00058	mg/kg	06.20.13 14.29	U	1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 16'** Matrix: Soil Date Received:06.19.13 10.00

Lab Sample Id: 465343-002 Date Collected: 06.17.13 15.00

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5035

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.20.13 07.45 Basis: Wet Weight

Seq Number: 916748

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	0.00087	0.00047	mg/kg	06.20.13 14.29	U	1
Dichlorodifluoromethane	75-71-8	U	0.0017	0.0010	mg/kg	06.20.13 14.29	U	1
Ethanol	64-17-5	U	0.044	0.024	mg/kg	06.20.13 14.29	U	1
Ethylbenzene	100-41-4	U	0.00087	0.00049	mg/kg	06.20.13 14.29	U	1
Isopropyl Ether	108-20-3	U	0.0017	0.0011	mg/kg	06.20.13 14.29	U	1
Isopropylbenzene	98-82-8	U	0.00087	0.00066	mg/kg	06.20.13 14.29	U	1
m,p-Xylenes	179601-23-1	U	0.00174	0.00105	mg/kg	06.20.13 14.29	U	1
Methyl tert-butyl ether	1634-04-4	U	0.0017	0.00060	mg/kg	06.20.13 14.29	U	1
Methylene chloride	75-09-2	U	0.0044	0.0019	mg/kg	06.20.13 14.29	U	1
Naphthalene	91-20-3	**0.0061**	0.0017	0.0011	mg/kg	06.20.13 14.29		1
n-Butylbenzene	104-51-8	U	0.00087	0.00077	mg/kg	06.20.13 14.29	U	1
n-Propylbenzene	103-65-1	U	0.00087	0.00068	mg/kg	06.20.13 14.29	U	1
o-Xylene	95-47-6	U	0.000871	0.000624	mg/kg	06.20.13 14.29	U	1
sec-Butylbenzene	135-98-8	U	0.00087	0.00057	mg/kg	06.20.13 14.29	U	1
Styrene	100-42-5	U	0.00087	0.00065	mg/kg	06.20.13 14.29	U	1
tert-Butylbenzene	98-06-6	U	0.00087	0.00073	mg/kg	06.20.13 14.29	U	1
Tetrachloroethene	127-18-4	U	0.0017	0.00090	mg/kg	06.20.13 14.29	U	1
Toluene	108-88-3	U	0.00087	0.00051	mg/kg	06.20.13 14.29	U	1
trans-1,2-Dichloroethene	156-60-5	U	0.00087	0.00068	mg/kg	06.20.13 14.29	U	1
trans-1,3-Dichloropropene	10061-02-6	U	0.00087	0.00058	mg/kg	06.20.13 14.29	U	1
Trichloroethene	79-01-6	U	0.00087	0.00062	mg/kg	06.20.13 14.29	U	1
Trichlorofluoromethane	75-69-4	U	0.0044	0.0031	mg/kg	06.20.13 14.29	U	1
Vinyl acetate	108-05-4	U	0.0044	0.00063	mg/kg	06.20.13 14.29	U	1
Vinyl chloride	75-01-4	U	0.0044	0.0017	mg/kg	06.20.13 14.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	106	%	50-150	06.20.13 14.29	
4-Bromofluorobenzene	460-00-4	100	%	57-158	06.20.13 14.29	
Toluene-D8	2037-26-5	98	%	50-150	06.20.13 14.29	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-1** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-003 Date Collected: 06.18.13 14.15

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.25.13 06.41

Seq Number: 917027

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	06.25.13 11.29	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	06.25.13 11.29	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	06.25.13 11.29	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	06.25.13 11.29	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	06.25.13 11.29	U	1
1,1-Dichloropropene	563-58-6	U	1.00	0.100	ug/L	06.25.13 11.29	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	06.25.13 11.29	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.210	ug/L	06.25.13 11.29	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	06.25.13 11.29	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	06.25.13 11.29	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	06.25.13 11.29	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	06.25.13 11.29	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.25.13 11.29	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	06.25.13 11.29	U	1
1,3,5-Trimethylbenzene	108-67-8	U	1.00	0.170	ug/L	06.25.13 11.29	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	06.25.13 11.29	U	1
1,3-Dichloropropane	142-28-9	U	1.00	0.190	ug/L	06.25.13 11.29	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	06.25.13 11.29	U	1
2,2-Dichloropropane	594-20-7	U	1.00	0.210	ug/L	06.25.13 11.29	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	06.25.13 11.29	U	1
2-Chlorotoluene	95-49-8	U	1.00	0.190	ug/L	06.25.13 11.29	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	06.25.13 11.29	U	1
4-Chlorotoluene	106-43-4	U	1.00	0.130	ug/L	06.25.13 11.29	U	1
4-Isopropyltoluene	99-87-6	U	1.00	0.130	ug/L	06.25.13 11.29	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	06.25.13 11.29	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	06.25.13 11.29	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	06.25.13 11.29	U	1
Bromobenzene	108-86-1	U	1.00	0.210	ug/L	06.25.13 11.29	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	06.25.13 11.29	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	06.25.13 11.29	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	06.25.13 11.29	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	06.25.13 11.29	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	06.25.13 11.29	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	06.25.13 11.29	U	1
Chlorodibromomethane	124-48-1	U	1.00	0.150	ug/L	06.25.13 11.29	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	06.25.13 11.29	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	06.25.13 11.29	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	06.25.13 11.29	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	06.25.13 11.29	U	1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-1** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-003 Date Collected: 06.18.13 14.15

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.25.13 06.41

Seq Number: 917027

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	06.25.13 11.29	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	06.25.13 11.29	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.25.13 11.29	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.25.13 11.29	U	1
Isopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.25.13 11.29	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	06.25.13 11.29	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.25.13 11.29	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.25.13 11.29	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	06.25.13 11.29	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.25.13 11.29	U	1
n-Butylbenzene	104-51-8	U	1.00	0.170	ug/L	06.25.13 11.29	U	1
n-Propylbenzene	103-65-1	U	1.00	0.180	ug/L	06.25.13 11.29	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.25.13 11.29	U	1
sec-Butylbenzene	135-98-8	U	1.00	0.210	ug/L	06.25.13 11.29	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	06.25.13 11.29	U	1
tert-Butylbenzene	98-06-6	U	1.00	0.180	ug/L	06.25.13 11.29	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	06.25.13 11.29	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.25.13 11.29	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	06.25.13 11.29	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	06.25.13 11.29	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	06.25.13 11.29	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	06.25.13 11.29	U	1
Vinyl acetate	108-05-4	U	1.00	0.720	ug/L	06.25.13 11.29	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	06.25.13 11.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	96	%	53-159	06.25.13 11.29	
4-Bromofluorobenzene	460-00-4	97	%	30-186	06.25.13 11.29	
Toluene-D8	2037-26-5	98	%	70-130	06.25.13 11.29	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-2** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-004 Date Collected: 06.18.13 14.40

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.22.13 08.09

Seq Number: 916874

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	06.22.13 18.26	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	06.22.13 18.26	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	06.22.13 18.26	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	06.22.13 18.26	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	06.22.13 18.26	U	1
1,1-Dichloropropene	563-58-6	U	1.00	0.100	ug/L	06.22.13 18.26	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	06.22.13 18.26	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.210	ug/L	06.22.13 18.26	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	06.22.13 18.26	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	06.22.13 18.26	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	06.22.13 18.26	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	06.22.13 18.26	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.22.13 18.26	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	06.22.13 18.26	U	1
1,3,5-Trimethylbenzene	108-67-8	U	1.00	0.170	ug/L	06.22.13 18.26	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	06.22.13 18.26	U	1
1,3-Dichloropropane	142-28-9	U	1.00	0.190	ug/L	06.22.13 18.26	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	06.22.13 18.26	U	1
2,2-Dichloropropane	594-20-7	U	1.00	0.210	ug/L	06.22.13 18.26	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	06.22.13 18.26	U	1
2-Chlorotoluene	95-49-8	U	1.00	0.190	ug/L	06.22.13 18.26	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	06.22.13 18.26	U	1
4-Chlorotoluene	106-43-4	U	1.00	0.130	ug/L	06.22.13 18.26	U	1
4-Isopropyltoluene	99-87-6	U	1.00	0.130	ug/L	06.22.13 18.26	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	06.22.13 18.26	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	06.22.13 18.26	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	06.22.13 18.26	U	1
Bromobenzene	108-86-1	U	1.00	0.210	ug/L	06.22.13 18.26	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	06.22.13 18.26	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	06.22.13 18.26	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	06.22.13 18.26	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	06.22.13 18.26	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	06.22.13 18.26	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	06.22.13 18.26	U	1
Chlorodibromomethane	124-48-1	U	1.00	0.150	ug/L	06.22.13 18.26	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	06.22.13 18.26	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	06.22.13 18.26	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	06.22.13 18.26	U	1
cis-1,2-Dichloroethene	156-59-2	**13.8**	1.00	0.210	ug/L	06.22.13 18.26		1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-2** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-004 Date Collected: 06.18.13 14.40

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.22.13 08.09

Seq Number: 916874

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	06.22.13 18.26	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	06.22.13 18.26	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.22.13 18.26	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.22.13 18.26	U	1
Isopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.22.13 18.26	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	06.22.13 18.26	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.22.13 18.26	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.22.13 18.26	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	06.22.13 18.26	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.22.13 18.26	U	1
n-Butylbenzene	104-51-8	U	1.00	0.170	ug/L	06.22.13 18.26	U	1
n-Propylbenzene	103-65-1	U	1.00	0.180	ug/L	06.22.13 18.26	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.22.13 18.26	U	1
sec-Butylbenzene	135-98-8	U	1.00	0.210	ug/L	06.22.13 18.26	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	06.22.13 18.26	U	1
tert-Butylbenzene	98-06-6	U	1.00	0.180	ug/L	06.22.13 18.26	U	1
Tetrachloroethene	127-18-4	**30.4**	1.00	0.160	ug/L	06.22.13 18.26		1
Toluene	108-88-3	**1.06**	1.00	0.140	ug/L	06.22.13 18.26		1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	06.22.13 18.26	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	06.22.13 18.26	U	1
Trichloroethene	79-01-6	**14.6**	1.00	0.190	ug/L	06.22.13 18.26		1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	06.22.13 18.26	U	1
Vinyl acetate	108-05-4	U	1.00	0.720	ug/L	06.22.13 18.26	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	06.22.13 18.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	131	%	53-159	06.22.13 18.26	
4-Bromofluorobenzene	460-00-4	94	%	30-186	06.22.13 18.26	
Toluene-D8	2037-26-5	94	%	70-130	06.22.13 18.26	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-3** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-005 Date Collected: 06.18.13 15.00

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.22.13 08.09

Seq Number: 916874

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	06.22.13 18.52	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	06.22.13 18.52	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	06.22.13 18.52	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	06.22.13 18.52	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	06.22.13 18.52	U	1
1,1-Dichloropropene	563-58-6	U	1.00	0.100	ug/L	06.22.13 18.52	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	06.22.13 18.52	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.210	ug/L	06.22.13 18.52	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	06.22.13 18.52	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	06.22.13 18.52	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	06.22.13 18.52	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	06.22.13 18.52	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.22.13 18.52	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	06.22.13 18.52	U	1
1,3,5-Trimethylbenzene	108-67-8	U	1.00	0.170	ug/L	06.22.13 18.52	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	06.22.13 18.52	U	1
1,3-Dichloropropane	142-28-9	U	1.00	0.190	ug/L	06.22.13 18.52	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	06.22.13 18.52	U	1
2,2-Dichloropropane	594-20-7	U	1.00	0.210	ug/L	06.22.13 18.52	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	06.22.13 18.52	U	1
2-Chlorotoluene	95-49-8	U	1.00	0.190	ug/L	06.22.13 18.52	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	06.22.13 18.52	U	1
4-Chlorotoluene	106-43-4	U	1.00	0.130	ug/L	06.22.13 18.52	U	1
4-Isopropyltoluene	99-87-6	U	1.00	0.130	ug/L	06.22.13 18.52	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	06.22.13 18.52	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	06.22.13 18.52	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	06.22.13 18.52	U	1
Bromobenzene	108-86-1	U	1.00	0.210	ug/L	06.22.13 18.52	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	06.22.13 18.52	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	06.22.13 18.52	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	06.22.13 18.52	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	06.22.13 18.52	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	06.22.13 18.52	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	06.22.13 18.52	U	1
Chlorodibromomethane	124-48-1	U	1.00	0.150	ug/L	06.22.13 18.52	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	06.22.13 18.52	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	06.22.13 18.52	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	06.22.13 18.52	U	1
cis-1,2-Dichloroethene	156-59-2	**3.49**	1.00	0.210	ug/L	06.22.13 18.52		1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-3** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-005 Date Collected: 06.18.13 15.00

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.22.13 08.09

Seq Number: 916874

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	06.22.13 18.52	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	06.22.13 18.52	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.22.13 18.52	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.22.13 18.52	U	1
Isopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.22.13 18.52	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	06.22.13 18.52	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.22.13 18.52	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.22.13 18.52	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	06.22.13 18.52	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.22.13 18.52	U	1
n-Butylbenzene	104-51-8	U	1.00	0.170	ug/L	06.22.13 18.52	U	1
n-Propylbenzene	103-65-1	U	1.00	0.180	ug/L	06.22.13 18.52	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.22.13 18.52	U	1
sec-Butylbenzene	135-98-8	U	1.00	0.210	ug/L	06.22.13 18.52	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	06.22.13 18.52	U	1
tert-Butylbenzene	98-06-6	U	1.00	0.180	ug/L	06.22.13 18.52	U	1
Tetrachloroethene	127-18-4	**27.5**	1.00	0.160	ug/L	06.22.13 18.52		1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.22.13 18.52	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	06.22.13 18.52	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	06.22.13 18.52	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	06.22.13 18.52	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	06.22.13 18.52	U	1
Vinyl acetate	108-05-4	U	1.00	0.720	ug/L	06.22.13 18.52	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	06.22.13 18.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	128	%	53-159	06.22.13 18.52	
4-Bromofluorobenzene	460-00-4	99	%	30-186	06.22.13 18.52	
Toluene-D8	2037-26-5	94	%	70-130	06.22.13 18.52	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-006 Date Collected: 06.18.13 15.20

Analytical Method: Select Metals by SW-846 6010C Prep Method: SW3010A

Tech: ABA % Moisture:

Analyst: 4150 Date Prep: 06.24.13 09.21

Seq Number: 916962

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	U	0.0500	0.000300	mg/L	06.25.13 13.49	U	1
Lead	7439-92-1	U	0.0100	0.00330	mg/L	06.25.13 13.49	U	1

Analytical Method: EPH by MADEP Method Prep Method: SW3520C

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.20.13 10.30

Seq Number: 917179

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Unadjusted C11-C22 Aromatics	C11C22	**120**	100	100	ug/L	06.25.13 23.43		1
Unadjusted C9-C18 Aliphatics	ALHYDRC9C18	U	100	100	ug/L	06.26.13 08.37	U	1
Unadjusted C19-C36 Aliphatics	ALHYDRC19C3	U	100	100	ug/L	06.26.13 08.37	UX	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctadecane	3386-33-2	75	%	40-140	06.26.13 08.37	
o-Terphenyl	84-15-1	80	%	40-140	06.25.13 23.43	
2-Fluorobiphenyl	321-60-8	84	%	40-140	06.25.13 23.43	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-006 Date Collected: 06.18.13 15.20

Analytical Method: SVOCs by EPA 625M + 10 TICs Prep Method: E625P

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.21.13 14.00

Seq Number: 917130

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2,4-Trichlorobenzene	120-82-1	U	10.0	1.43	ug/L	06.28.13 14.41	U	1
1,2-Dichlorobenzene	95-50-1	U	10.0	1.83	ug/L	06.28.13 14.41	U	1
1,2-Diphenylhydrazine (as Azobenzene)	122-66-7	U	50.0	4.76	ug/L	06.28.13 14.41	U	1
1,3-Dichlorobenzene	541-73-1	U	10.0	2.11	ug/L	06.28.13 14.41	U	1
1,3-Dinitrobenzene	99-65-0	U	10.0	20.1	ug/L	06.28.13 14.41	U	1
2,4,6-Trichlorophenol	88-06-2	U	10.0	1.64	ug/L	06.28.13 14.41	U	1
2,4-Dichlorophenol	120-83-2	U	10.0	1.78	ug/L	06.28.13 14.41	U	1
2,4-Dimethylphenol	105-67-9	U	10.0	1.63	ug/L	06.28.13 14.41	U	1
2,4-Dinitrophenol	51-28-5	U	50.0	7.11	ug/L	06.28.13 14.41	U	1
2,4-Dinitrotoluene	121-14-2	U	10.0	2.14	ug/L	06.28.13 14.41	U	1
2,6-Dinitrotoluene	606-20-2	U	10.0	2.72	ug/L	06.28.13 14.41	U	1
2-Chloronaphthalene	91-58-7	U	10.0	1.29	ug/L	06.28.13 14.41	U	1
2-Chlorophenol	95-57-8	U	10.0	1.83	ug/L	06.28.13 14.41	U	1
2-Methylnaphthalene	91-57-6	**1.56**	10.0	1.19	ug/L	06.28.13 14.41	J	1
2-Methylphenol	95-48-7	U	10.0	2.00	ug/L	06.28.13 14.41	U	1
2-Nitrophenol	88-75-5	U	10.0	1.95	ug/L	06.28.13 14.41	U	1
3&4-Methylphenol	15831-10-4	U	10.0	2.55	ug/L	06.28.13 14.41	U	1
3,3-Dichlorobenzidine	91-94-1	U	20.0	3.88	ug/L	06.28.13 14.41	U	1
4,6-Dinitro-2-methyl phenol	534-52-1	U	50.0	1.40	ug/L	06.28.13 14.41	U	1
4-Bromophenyl phenyl ether	101-55-3	U	10.0	2.12	ug/L	06.28.13 14.41	U	1
4-Chloro-3-methylphenol	59-50-7	U	20.0	2.18	ug/L	06.28.13 14.41	U	1
4-Chloroaniline	106-47-8	U	10.0	3.09	ug/L	06.28.13 14.41	U	1
4-Chlorophenyl phenyl ether	7005-72-3	U	10.0	1.35	ug/L	06.28.13 14.41	U	1
4-Nitrophenol	100-02-7	U	50.0	2.41	ug/L	06.28.13 14.41	U	1
Acenaphthene	83-32-9	U	10.0	1.43	ug/L	06.28.13 14.41	U	1
Acenaphthylene	208-96-8	U	10.0	1.48	ug/L	06.28.13 14.41	U	1
Anthracene	120-12-7	U	10.0	2.01	ug/L	06.28.13 14.41	U	1
Benzo(a)anthracene	56-55-3	U	10.0	1.90	ug/L	06.28.13 14.41	U	1
Benzo(a)pyrene	50-32-8	U	10.0	1.80	ug/L	06.28.13 14.41	U	1
Benzo(b)fluoranthene	205-99-2	U	10.0	1.97	ug/L	06.28.13 14.41	U	1
Benzo(g,h,i)perylene	191-24-2	U	10.0	1.97	ug/L	06.28.13 14.41	U	1
Benzo(k)fluoranthene	207-08-9	U	10.0	2.71	ug/L	06.28.13 14.41	U	1
Benzoic acid	65-85-0	U	50.0	2.21	ug/L	06.28.13 14.41	U	1
Benzyl alcohol	100-51-6	U	20.0	1.23	ug/L	06.28.13 14.41	U	1
Bis(2-chloroethoxy) methane	111-91-1	U	10.0	1.25	ug/L	06.28.13 14.41	ULF	1
Bis(2-chloroethyl) ether	111-44-4	U	10.0	1.78	ug/L	06.28.13 14.41	U	1
Bis(2-chloroisopropyl) ether	39638-32-9	U	10.0	1.24	ug/L	06.28.13 14.41	U	1
Bis(2-ethylhexyl) phthalate	117-81-7	**1.57**	10.0	1.20	ug/L	06.28.13 14.41	J	1
Butyl benzyl phthalate	85-68-7	U	10.0	1.82	ug/L	06.28.13 14.41	U	1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-006 Date Collected: 06.18.13 15.20

Analytical Method: SVOCs by EPA 625M + 10 TICs Prep Method: E625P

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.21.13 14.00

Seq Number: 917130

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chrysene	218-01-9	U	10.0	2.09	ug/L	06.28.13 14.41	U	1
Dibenz(a,h)anthracene	53-70-3	U	10.0	1.83	ug/L	06.28.13 14.41	U	1
Dibenzofuran	132-64-9	U	10.0	1.64	ug/L	06.28.13 14.41	U	1
Diethyl phthalate	84-66-2	U	10.0	1.90	ug/L	06.28.13 14.41	U	1
Dimethyl phthalate	131-11-3	U	10.0	1.97	ug/L	06.28.13 14.41	U	1
Di-n-butyl phthalate	84-74-2	U	10.0	2.08	ug/L	06.28.13 14.41	U	1
Di-n-octyl phthalate	117-84-0	U	10.0	1.38	ug/L	06.28.13 14.41	U	1
Fluoranthene	206-44-0	U	10.0	1.81	ug/L	06.28.13 14.41	U	1
Fluorene	86-73-7	U	10.0	1.56	ug/L	06.28.13 14.41	U	1
Hexachlorobenzene	118-74-1	U	10.0	2.21	ug/L	06.28.13 14.41	U	1
Hexachlorobutadiene	87-68-3	U	10.0	1.78	ug/L	06.28.13 14.41	U	1
Hexachlorocyclopentadiene	77-47-4	U	10.0	1.87	ug/L	06.28.13 14.41	UL	1
Hexachloroethane	67-72-1	U	10.0	2.38	ug/L	06.28.13 14.41	U	1
Indeno(1,2,3-c,d)pyrene	193-39-5	U	10.0	1.87	ug/L	06.28.13 14.41	U	1
Isophorone	78-59-1	U	10.0	1.41	ug/L	06.28.13 14.41	U	1
Naphthalene	91-20-3	**1.92**	10.0	1.52	ug/L	06.28.13 14.41	J	1
Nitrobenzene	98-95-3	U	10.0	1.49	ug/L	06.28.13 14.41	U	1
N-Nitrosodi-n-propylamine	621-64-7	U	10.0	1.36	ug/L	06.28.13 14.41	U	1
N-Nitrosodiphenylamine	86-30-6	U	10.0	2.50	ug/L	06.28.13 14.41	U	1
Pentachlorophenol	87-86-5	U	50.0	2.26	ug/L	06.28.13 14.41	U	1
Phenanthrene	85-01-8	U	10.0	2.04	ug/L	06.28.13 14.41	U	1
Phenol	108-95-2	U	10.0	1.76	ug/L	06.28.13 14.41	U	1
Pyrene	129-00-0	U	10.0	2.40	ug/L	06.28.13 14.41	U	1
3-Phenylbut-1-ene (TIC)	TIC	**4.27**			ug/L	06.28.13 14.41	JN	1
Diisooctyl adipate (TIC)	TIC	**8.22**			ug/L	06.28.13 14.41	JN	1
Hexadecane, 7,9-dimethyl- (TIC)	TIC	**4.84**			ug/L	06.28.13 14.41	JN	1
Octadecanoic acid (TIC)	TIC	**76.4**			ug/L	06.28.13 14.41	JN	1
Squalene (TIC)	TIC	**5.62**			ug/L	06.28.13 14.41	JN	1
n-Hexadecanoic acid (TIC)	TIC	**64.2**			ug/L	06.28.13 14.41	JN	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
2,4,6-Tribromophenol	118-79-6	85	%	32-129	06.28.13 14.41	
2-Fluorobiphenyl	321-60-8	73	%	39-99	06.28.13 14.41	
2-Fluorophenol	367-12-4	69	%	33-92	06.28.13 14.41	
Nitrobenzene-d5	4165-60-0	71	%	37-94	06.28.13 14.41	
Phenol-d5	4165-62-2	72	%	28-88	06.28.13 14.41	
Terphenyl-D14	1718-51-0	103	%	18-133	06.28.13 14.41	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4**
Lab Sample Id: 465343-006

Matrix: Ground Water
Date Collected: 06.18.13 15.20

Date Received: 06.19.13 10.00

Analytical Method: MADEP VPH REV 1.1
Tech: BAT
Analyst: MLA
Seq Number: 916782

Date Prep: 06.20.13 08.13

Prep Method: SW5030B
% Moisture:

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C5-C8 Aliphatics (Unadj.)	ALHYDRC5C8	U	15.0	15.0	ug/L	06.20.13 16.25	U	1
C9-C10 Aromatics (Unadj.)	HYDC9C10	**20.0**	5.00	5.00	ug/L	06.20.13 16.25		1
C9-C12 Aliphatics (Unadj.)	ALHYDRC9C12	**50.0**	15.0	15.0	ug/L	06.20.13 16.25	X	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
2,5-Dibromotoluene	615-59-8	113	%	70-130	06.20.13 16.25	
2,5-Dibromotoluene (PID)	615-59-8	108	%	70-130	06.20.13 16.25	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-006 Date Collected: 06.18.13 15.20

Analytical Method: VOCs by GC/MS by SM6200B Prep Method: SM6200B_PREP

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.26.13 07.23

Seq Number: 917159

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	0.500	0.0760	ug/L	06.26.13 11.39	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.500	0.0700	ug/L	06.26.13 11.39	U	1
1,1,2-Trichloroethane	79-00-5	U	0.500	0.113	ug/L	06.26.13 11.39	U	1
1,1-Dichloroethane	75-34-3	U	0.500	0.121	ug/L	06.26.13 11.39	U	1
1,1-Dichloroethene	75-35-4	U	0.500	0.104	ug/L	06.26.13 11.39	U	1
1,1-Dichloropropene	563-58-6	U	0.500	0.0600	ug/L	06.26.13 11.39	U	1
1,2,3-Trichlorobenzene	87-61-6	U	2.00	0.118	ug/L	06.26.13 11.39	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.138	ug/L	06.26.13 11.39	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.0690	ug/L	06.26.13 11.39	U	1
1,2,4-Trimethylbenzene	95-63-6	**7.54**	0.500	0.103	ug/L	06.26.13 11.39		1
1,2-Dibromoethane (EDB)		U	1.00	0.180	ug/L	06.26.13 11.39	U	1
1,2-Dichlorobenzene	95-50-1	U	0.500	0.0940	ug/L	06.26.13 11.39	U	1
1,2-Dichloroethane	107-06-2	U	0.500	0.0900	ug/L	06.26.13 11.39	U	1
1,2-Dichloropropane	78-87-5	U	0.500	0.122	ug/L	06.26.13 11.39	U	1
1,3,5-Trimethylbenzene	108-67-8	U	0.500	0.0870	ug/L	06.26.13 11.39	U	1
1,3-Dichlorobenzene	541-73-1	U	0.500	0.0980	ug/L	06.26.13 11.39	U	1
1,3-Dichloropropane	142-28-9	U	0.500	0.133	ug/L	06.26.13 11.39	U	1
1,4-Dichlorobenzene	106-46-7	U	0.500	0.0670	ug/L	06.26.13 11.39	U	1
2,2-Dichloropropane	594-20-7	U	0.200	0.0970	ug/L	06.26.13 11.39	U	1
2-Butanone (MEK)	78-93-3	U	20.0	0.378	ug/L	06.26.13 11.39	U	1
2-Chlorotoluene	95-49-8	U	0.200	0.0880	ug/L	06.26.13 11.39	U	1
2-Hexanone	591-78-6	U	0.400	0.352	ug/L	06.26.13 11.39	U	1
4-Chlorotoluene	106-43-4	U	0.500	0.0900	ug/L	06.26.13 11.39	U	1
4-Isopropyltoluene	99-87-6	U	0.500	0.0890	ug/L	06.26.13 11.39	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	0.400	0.253	ug/L	06.26.13 11.39	U	1
Acetone	67-64-1	U	2.00	0.352	ug/L	06.26.13 11.39	U	1
Benzene	71-43-2	U	0.500	0.119	ug/L	06.26.13 11.39	U	1
Bromobenzene	108-86-1	U	0.500	0.132	ug/L	06.26.13 11.39	U	1
Bromochloromethane	74-97-5	U	0.500	0.112	ug/L	06.26.13 11.39	U	1
Bromodichloromethane	75-27-4	U	0.500	0.124	ug/L	06.26.13 11.39	U	1
Bromoform	75-25-2	U	2.00	0.159	ug/L	06.26.13 11.39	U	1
Bromomethane	74-83-9	U	1.00	0.0970	ug/L	06.26.13 11.39	U	1
Carbon tetrachloride	56-23-5	U	0.500	0.0990	ug/L	06.26.13 11.39	U	1
Chlorobenzene	108-90-7	U	0.500	0.105	ug/L	06.26.13 11.39	U	1
Chlorodibromomethane	124-48-1	U	0.500	0.177	ug/L	06.26.13 11.39	U	1
Chloroethane	75-00-3	U	0.500	0.0420	ug/L	06.26.13 11.39	U	1
Chloroform	67-66-3	**1.50**	0.500	0.172	ug/L	06.26.13 11.39		1
Chloromethane	74-87-3	U	0.500	0.0850	ug/L	06.26.13 11.39	U	1
cis-1,2-Dichloroethene	156-59-2	U	0.500	0.114	ug/L	06.26.13 11.39	U	1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-006 Date Collected: 06.18.13 15.20

Analytical Method: VOCs by GC/MS by SM6200B Prep Method: SM6200B_PREP

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.26.13 07.23

Seq Number: 917159

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	06.26.13 11.39	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.0670	ug/L	06.26.13 11.39	U	1
Ethanol	64-17-5	U	50.0	3.00	ug/L	06.26.13 11.39	U	1
Ethylbenzene	100-41-4	U	0.500	0.0920	ug/L	06.26.13 11.39	U	1
Isopropyl ether	108-20-3	U	0.500	0.0920	ug/L	06.26.13 11.39	U	1
Isopropylbenzene	98-82-8	**0.220**	0.500	0.0980	ug/L	06.26.13 11.39	J	1
Methyl tert-butyl ether (MTBE)	1634-04-4	U	0.500	0.169	ug/L	06.26.13 11.39	U	1
Methylene Chloride	75-09-2	U	0.500	0.190	ug/L	06.26.13 11.39	U	1
Naphthalene	91-20-3	**8.05**	2.00	0.0940	ug/L	06.26.13 11.39		1
n-Butylbenzene	104-51-8	U	2.00	0.0600	ug/L	06.26.13 11.39	U	1
n-Propylbenzene	103-65-1	**0.610**	1.00	0.0650	ug/L	06.26.13 11.39	J	1
sec-Butylbenzene	135-98-8	U	0.500	0.0920	ug/L	06.26.13 11.39	U	1
Styrene	100-42-5	U	0.500	0.0740	ug/L	06.26.13 11.39	U	1
tert-Butylbenzene	98-06-6	U	0.500	0.0890	ug/L	06.26.13 11.39	U	1
Tetrachloroethene (PCE)	127-18-4	**0.980**	0.500	0.0540	ug/L	06.26.13 11.39		1
Toluene	108-88-3	U	0.500	0.0570	ug/L	06.26.13 11.39	U	1
trans-1,2-Dichloroethene	156-60-5	U	0.500	0.188	ug/L	06.26.13 11.39	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	06.26.13 11.39	U	1
Trichloroethene	79-01-6	U	0.500	0.139	ug/L	06.26.13 11.39	U	1
Trichlorofluoromethane	75-69-4	U	0.500	0.0540	ug/L	06.26.13 11.39	U	1
Vinyl Acetate	108-05-4	U	1.00	0.720	ug/L	06.26.13 11.39	U	1
Vinyl Chloride	75-01-4	U	0.500	0.0810	ug/L	06.26.13 11.39	U	1
m,p-Xylenes	179601-23-1	**1.54**	1.00	0.176	ug/L	06.26.13 11.39		1
o-Xylene	95-47-6	**1.51**	0.500	0.122	ug/L	06.26.13 11.39		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	112	%	53-159	06.26.13 11.39	
4-Bromofluorobenzene	460-00-4	100	%	30-186	06.26.13 11.39	
Toluene-D8	2037-26-5	96	%	70-130	06.26.13 11.39	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **Trip Blank** Matrix: Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-007 Date Collected: 06.18.13 00.00

Analytical Method: VOCs by GC/MS by SM6200B Prep Method: SM6200B_PREP

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.26.13 07.23

Seq Number: 917159

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	0.500	0.0760	ug/L	06.26.13 11.06	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.500	0.0700	ug/L	06.26.13 11.06	U	1
1,1,2-Trichloroethane	79-00-5	U	0.500	0.113	ug/L	06.26.13 11.06	U	1
1,1-Dichloroethane	75-34-3	U	0.500	0.121	ug/L	06.26.13 11.06	U	1
1,1-Dichloroethene	75-35-4	U	0.500	0.104	ug/L	06.26.13 11.06	U	1
1,1-Dichloropropene	563-58-6	U	0.500	0.0600	ug/L	06.26.13 11.06	U	1
1,2,3-Trichlorobenzene	87-61-6	U	2.00	0.118	ug/L	06.26.13 11.06	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.138	ug/L	06.26.13 11.06	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.0690	ug/L	06.26.13 11.06	U	1
1,2,4-Trimethylbenzene	95-63-6	U	0.500	0.103	ug/L	06.26.13 11.06	U	1
1,2-Dibromoethane (EDB)		U	1.00	0.180	ug/L	06.26.13 11.06	U	1
1,2-Dichlorobenzene	95-50-1	U	0.500	0.0940	ug/L	06.26.13 11.06	U	1
1,2-Dichloroethane	107-06-2	U	0.500	0.0900	ug/L	06.26.13 11.06	U	1
1,2-Dichloropropane	78-87-5	U	0.500	0.122	ug/L	06.26.13 11.06	U	1
1,3,5-Trimethylbenzene	108-67-8	U	0.500	0.0870	ug/L	06.26.13 11.06	U	1
1,3-Dichlorobenzene	541-73-1	U	0.500	0.0980	ug/L	06.26.13 11.06	U	1
1,3-Dichloropropane	142-28-9	U	0.500	0.133	ug/L	06.26.13 11.06	U	1
1,4-Dichlorobenzene	106-46-7	U	0.500	0.0670	ug/L	06.26.13 11.06	U	1
2,2-Dichloropropane	594-20-7	U	0.200	0.0970	ug/L	06.26.13 11.06	U	1
2-Butanone (MEK)	78-93-3	U	20.0	0.378	ug/L	06.26.13 11.06	U	1
2-Chlorotoluene	95-49-8	U	0.200	0.0880	ug/L	06.26.13 11.06	U	1
2-Hexanone	591-78-6	U	0.400	0.352	ug/L	06.26.13 11.06	U	1
4-Chlorotoluene	106-43-4	U	0.500	0.0900	ug/L	06.26.13 11.06	U	1
4-Isopropyltoluene	99-87-6	U	0.500	0.0890	ug/L	06.26.13 11.06	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	0.400	0.253	ug/L	06.26.13 11.06	U	1
Acetone	67-64-1	U	2.00	0.352	ug/L	06.26.13 11.06	U	1
Benzene	71-43-2	U	0.500	0.119	ug/L	06.26.13 11.06	U	1
Bromobenzene	108-86-1	U	0.500	0.132	ug/L	06.26.13 11.06	U	1
Bromochloromethane	74-97-5	U	0.500	0.112	ug/L	06.26.13 11.06	U	1
Bromodichloromethane	75-27-4	U	0.500	0.124	ug/L	06.26.13 11.06	U	1
Bromoform	75-25-2	U	2.00	0.159	ug/L	06.26.13 11.06	U	1
Bromomethane	74-83-9	U	1.00	0.0970	ug/L	06.26.13 11.06	U	1
Carbon tetrachloride	56-23-5	U	0.500	0.0990	ug/L	06.26.13 11.06	U	1
Chlorobenzene	108-90-7	U	0.500	0.105	ug/L	06.26.13 11.06	U	1
Chlorodibromomethane	124-48-1	U	0.500	0.177	ug/L	06.26.13 11.06	U	1
Chloroethane	75-00-3	U	0.500	0.0420	ug/L	06.26.13 11.06	U	1
Chloroform	67-66-3	U	0.500	0.172	ug/L	06.26.13 11.06	U	1
Chloromethane	74-87-3	U	0.500	0.0850	ug/L	06.26.13 11.06	U	1
cis-1,2-Dichloroethene	156-59-2	U	0.500	0.114	ug/L	06.26.13 11.06	U	1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **Trip Blank** Matrix: Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-007 Date Collected: 06.18.13 00.00

Analytical Method: VOCs by GC/MS by SM6200B Prep Method: SM6200B_PREP

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.26.13 07.23

Seq Number: 917159

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	06.26.13 11.06	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.0670	ug/L	06.26.13 11.06	U	1
Ethanol	64-17-5	U	50.0	3.00	ug/L	06.26.13 11.06	U	1
Ethylbenzene	100-41-4	U	0.500	0.0920	ug/L	06.26.13 11.06	U	1
Isopropyl ether	108-20-3	U	0.500	0.0920	ug/L	06.26.13 11.06	U	1
Isopropylbenzene	98-82-8	U	0.500	0.0980	ug/L	06.26.13 11.06	U	1
Methyl tert-butyl ether (MTBE)	1634-04-4	U	0.500	0.169	ug/L	06.26.13 11.06	U	1
Methylene Chloride	75-09-2	U	0.500	0.190	ug/L	06.26.13 11.06	U	1
Naphthalene	91-20-3	U	2.00	0.0940	ug/L	06.26.13 11.06	U	1
n-Butylbenzene	104-51-8	U	2.00	0.0600	ug/L	06.26.13 11.06	U	1
n-Propylbenzene	103-65-1	U	1.00	0.0650	ug/L	06.26.13 11.06	U	1
sec-Butylbenzene	135-98-8	U	0.500	0.0920	ug/L	06.26.13 11.06	U	1
Styrene	100-42-5	U	0.500	0.0740	ug/L	06.26.13 11.06	U	1
tert-Butylbenzene	98-06-6	U	0.500	0.0890	ug/L	06.26.13 11.06	U	1
Tetrachloroethene (PCE)	127-18-4	U	0.500	0.0540	ug/L	06.26.13 11.06	U	1
Toluene	108-88-3	U	0.500	0.0570	ug/L	06.26.13 11.06	U	1
trans-1,2-Dichloroethene	156-60-5	U	0.500	0.188	ug/L	06.26.13 11.06	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	06.26.13 11.06	U	1
Trichloroethene	79-01-6	U	0.500	0.139	ug/L	06.26.13 11.06	U	1
Trichlorofluoromethane	75-69-4	U	0.500	0.0540	ug/L	06.26.13 11.06	U	1
Vinyl Acetate	108-05-4	U	1.00	0.720	ug/L	06.26.13 11.06	U	1
Vinyl Chloride	75-01-4	U	0.500	0.0810	ug/L	06.26.13 11.06	U	1
m,p-Xylenes	179601-23-1	U	1.00	0.176	ug/L	06.26.13 11.06	U	1
o-Xylene	95-47-6	U	0.500	0.122	ug/L	06.26.13 11.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	112	%	53-159	06.26.13 11.06	
4-Bromofluorobenzene	460-00-4	101	%	30-186	06.26.13 11.06	
Toluene-D8	2037-26-5	91	%	70-130	06.26.13 11.06	

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services

Apex Village

Analytical Method: **Select Metals by SW-846 6010C** Prep Method: SW3050B
Seq Number: 916732 Matrix: Solid Date Prep: 06.20.13
MB Sample Id: 639971-1-BLK LCS Sample Id: 639971-1-BKS LCSD Sample Id: 639971-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chromium	<0.0600	100	98.5	99	97.5	98	80-120	1	20	mg/kg	06.20.13 16:38	
Lead	<0.279	100	98.6	99	98.2	98	80-120	0	20	mg/kg	06.20.13 16:38	

Analytical Method: **Select Metals by SW-846 6010C** Prep Method: SW3010A
Seq Number: 916962 Matrix: Water Date Prep: 06.24.13
MB Sample Id: 640082-1-BLK LCS Sample Id: 640082-1-BKS LCSD Sample Id: 640082-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chromium	0.000700	1.00	0.982	98	0.984	98	80-120	0	20	mg/L	06.25.13 12:59	
Lead	<0.00330	1.00	0.980	98	0.982	98	80-120	0	20	mg/L	06.25.13 12:59	

Analytical Method: **Select Metals by SW-846 6010C** Prep Method: SW3050B
Seq Number: 916732 Matrix: Soil Date Prep: 06.20.13
Parent Sample Id: 465297-001 MD Sample Id: 465297-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Chromium	5.75	8.10	34	20	mg/kg	06.20.13 16:49	F
Lead	28.9	30.8	6	20	mg/kg	06.20.13 16:49	

Analytical Method: **Select Metals by SW-846 6010C** Prep Method: SW3010A
Seq Number: 916962 Matrix: Surface Water Date Prep: 06.24.13
Parent Sample Id: 465405-001 MD Sample Id: 465405-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Chromium	<0.000300	<0.000300	0	20	mg/L	06.25.13 13:09	U
Lead	<0.00330	<0.00330	0	20	mg/L	06.25.13 13:09	U

Analytical Method: **Select Metals by SW-846 6010C** Prep Method: SW3050B
Seq Number: 916732 Matrix: Soil Date Prep: 06.20.13
Parent Sample Id: 465297-001 MS Sample Id: 465297-001 S MSD Sample Id: 465297-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chromium	5.75	109	110	96	120	99	80-120	9	20	mg/kg	06.20.13 16:51	
Lead	28.9	109	124	87	139	96	80-120	11	20	mg/kg	06.20.13 16:51	

QC Summary 465343

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Analytical Method: **Select Metals by SW-846 6010C** Prep Method: SW3010A
Seq Number: 916962 Matrix: Surface Water Date Prep: 06.24.13
Parent Sample Id: 465405-001 MS Sample Id: 465405-001 S MSD Sample Id: 465405-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chromium	<0.000300	1.00	0.976	98	0.963	96	80-120	1	20	mg/L	06.25.13 13:11	
Lead	<0.00330	1.00	0.960	96	0.948	95	80-120	1	20	mg/L	06.25.13 13:11	

Analytical Method: **Percent Moisture**
Seq Number: 916837 Matrix: Soil
Parent Sample Id: 465362-001 MD Sample Id: 465362-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	18.9	19.0	1	20	%	06.21.13 16:45	

Analytical Method: **EPH by MADEP Method** Prep Method: SW3520C
Seq Number: 917179 Matrix: Water Date Prep: 06.20.13
MB Sample Id: 640202-1-BLK LCS Sample Id: 640202-1-BKS LCSD Sample Id: 640202-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Unadjusted C11-C22 Aromatics	<100	850	637	75	622	73	40-140	2	40	ug/L	06.25.13 21:35	
Unadjusted C9-C18 Aliphatics	<100	300	231	77	222	74	40-140	4	40	ug/L	06.26.13 06:40	
Unadjusted C19-C36 Aliphatics	<100	400	427	107	415	104	40-140	3	40	ug/L	06.26.13 06:40	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctadecane	52		86		72		40-140	%	06.26.13 06:40
o-Terphenyl	68		78		75		40-140	%	06.25.13 21:35
2-Fluorobiphenyl	78		81		86		40-140	%	06.25.13 21:35

Analytical Method: **EPH by MADEP Method** Prep Method: SW3550
Seq Number: 917187 Matrix: Solid Date Prep: 06.20.13
MB Sample Id: 639999-1-BLK LCS Sample Id: 639999-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Unadjusted C11-C22 Aromatics	<6.67	28.3	19.1	67	40-140	mg/kg	06.26.13 01:08	
Unadjusted C9-C18 Aliphatics	<3.33	10.0	11.7	117	40-140	mg/kg	06.26.13 09:54	
Unadjusted C19-C36 Aliphatics	<3.33	13.3	14.6	110	40-140	mg/kg	06.26.13 09:54	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	Limits	Units	Analysis Date
1-Chlorooctadecane	61		84		40-140	%	06.26.13 09:54
o-Terphenyl	77		87		40-140	%	06.26.13 01:08
2-Fluorobiphenyl	86		64		40-140	%	06.26.13 01:08

QC Summary 465343

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Analytical Method: **EPH by MADEP Method** Prep Method: SW3550
Seq Number: 917187 Matrix: Soil Date Prep: 06.20.13
Parent Sample Id: 465343-001 MS Sample Id: 465343-001 S MSD Sample Id: 465343-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Unadjusted C11-C22 Aromatics	<20.0	84.9	56.4	66	61.5	73	40-140	9	40	mg/kg	06.26.13 01:51	
Unadjusted C9-C18 Aliphatics	<9.99	30.0	32.9	110	29.6	99	40-140	11	40	mg/kg	06.26.13 10:33	
Unadjusted C19-C36 Aliphatics	<9.99	40.0	61.2	153	50.7	127	40-140	19	40	mg/kg	06.26.13 10:33	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctadecane	76		72		40-140	%	06.26.13 10:33
o-Terphenyl	75		68		40-140	%	06.26.13 01:51
2-Fluorobiphenyl	79		77		40-140	%	06.26.13 01:51

Analytical Method: **EPH by MADEP Method** Prep Method: SW3520C
Seq Number: 917179 Matrix: Ground Water Date Prep: 06.20.13
Parent Sample Id: 465343-006 MS Sample Id: 465343-006 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Unadjusted C11-C22 Aromatics	120	850	709	69	40-140	ug/L	06.25.13 23:00	
Unadjusted C9-C18 Aliphatics	<100	300	220	73	40-140	ug/L	06.26.13 07:58	
Unadjusted C19-C36 Aliphatics	<100	400	563	141	40-140	ug/L	06.26.13 07:58	X

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
1-Chlorooctadecane	87		40-140	%	06.26.13 07:58
o-Terphenyl	87		40-140	%	06.25.13 23:00
2-Fluorobiphenyl	92		40-140	%	06.25.13 23:00

QC Summary 465343

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Analytical Method: **SVOCs by EPA 625M + 10 TICs** Prep Method: SW3520C
Seq Number: 917130 Matrix: Water Date Prep: 06.21.13
MB Sample Id: 640195-1-BLK LCS Sample Id: 640195-1-BKS LCSD Sample Id: 640195-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<1.43	50.0	35.9	72	37.1	74	44-142	3	30	ug/L	06.25.13 12:13	
1,2-Dichlorobenzene	<1.83	50.0	37.7	75	38.1	76	32-129	1	30	ug/L	06.25.13 12:13	
1,3-Dichlorobenzene	<2.11	50.0	35.8	72	35.6	71	10-172	1	30	ug/L	06.25.13 12:13	
1,3-Dinitrobenzene	<20.1	50.0	46.4	93	48.9	98	70-130	5	30	ug/L	06.25.13 12:13	
2,4,6-Trichlorophenol	<1.64	50.0	26.7	53	25.0	50	37-144	7	30	ug/L	06.25.13 12:13	
2,4-Dichlorophenol	<1.78	50.0	30.8	62	25.5	51	39-135	19	30	ug/L	06.25.13 12:13	
2,4-Dimethylphenol	<1.63	50.0	39.4	79	40.0	80	32-119	2	30	ug/L	06.25.13 12:13	
2,4-Dinitrophenol	<7.11	50.0	13.8	28	14.2	28	10-191	3	30	ug/L	06.25.13 12:13	
2,4-Dinitrotoluene	<2.14	50.0	46.0	92	50.1	100	39-139	9	30	ug/L	06.25.13 12:13	
2,6-Dinitrotoluene	<2.72	50.0	45.4	91	48.0	96	50-158	6	30	ug/L	06.25.13 12:13	
2-Chloronaphthalene	<1.29	50.0	41.5	83	45.6	91	60-118	9	30	ug/L	06.25.13 12:13	
2-Chlorophenol	<1.83	50.0	29.7	59	23.5	47	23-134	23	30	ug/L	06.25.13 12:13	
2-Methylnaphthalene	<1.19	50.0	36.3	73	39.2	78	45-105	8	30	ug/L	06.25.13 12:13	
2-Methylphenol	<2.00	50.0	37.5	75	32.6	65	40-110	14	30	ug/L	06.25.13 12:13	
2-Nitrophenol	<1.95	50.0	28.6	57	23.3	47	29-182	20	30	ug/L	06.25.13 12:13	
3&4-Methylphenol	<2.55	100	73.6	74	64.2	64	30-110	14	30	ug/L	06.25.13 12:13	
4,6-Dinitro-2-methyl phenol	<1.40	50.0	17.9	36	17.0	34	10-181	5	30	ug/L	06.25.13 12:13	
4-Bromophenyl phenyl ether	<2.12	50.0	44.3	89	46.2	92	53-127	4	30	ug/L	06.25.13 12:13	
4-Chloro-3-methylphenol	<2.18	50.0	40.0	80	34.9	70	22-147	14	30	ug/L	06.25.13 12:13	
4-Chloroaniline	<3.09	50.0	21.3	43	4.76	10	15-110	127	30	ug/L	06.25.13 12:13	LF
4-Chlorophenyl phenyl ether	<1.35	50.0	42.3	85	46.0	92	25-158	8	30	ug/L	06.25.13 12:13	
4-Nitrophenol	<2.41	50.0	14.1	28	16.1	32	10-132	13	30	ug/L	06.25.13 12:13	
Acenaphthene	<1.43	50.0	42.0	84	46.2	92	47-145	10	30	ug/L	06.25.13 12:13	
Acenaphthylene	<1.48	50.0	42.5	85	38.0	76	33-145	11	30	ug/L	06.25.13 12:13	
Anthracene	<2.01	50.0	43.2	86	44.3	89	27-133	3	30	ug/L	06.25.13 12:13	
Benzo(a)anthracene	<1.90	50.0	46.7	93	49.5	99	33-143	6	30	ug/L	06.25.13 12:13	
Benzo(a)pyrene	<1.80	50.0	37.9	76	38.7	77	17-163	2	30	ug/L	06.25.13 12:13	
Benzo(b)fluoranthene	<1.97	50.0	45.7	91	48.0	96	24-159	5	30	ug/L	06.25.13 12:13	
Benzo(g,h,i)perylene	<1.97	50.0	47.0	94	48.5	97	10-219	3	30	ug/L	06.25.13 12:13	
Benzo(k)fluoranthene	<2.71	50.0	42.7	85	46.2	92	11-162	8	30	ug/L	06.25.13 12:13	
Benzoic acid	<2.21	50.0	13.3	27	16.6	33	1-125	22	30	ug/L	06.25.13 12:13	
Benzyl alcohol	<1.23	50.0	38.3	77	36.7	73	30-110	4	30	ug/L	06.25.13 12:13	
Bis(2-chloroethoxy) methane	<1.25	50.0	37.9	76	16.0	32	33-184	81	30	ug/L	06.25.13 12:13	LF
Bis(2-chloroethyl) ether	<1.78	50.0	40.6	81	42.0	84	12-158	3	30	ug/L	06.25.13 12:13	
Bis(2-chloroisopropyl) ether	<1.24	50.0	50.6	101	52.2	104	36-166	3	30	ug/L	06.25.13 12:13	
Bis(2-ethylhexyl) phthalate	<1.20	50.0	56.5	113	56.6	113	8-158	0	30	ug/L	06.25.13 12:13	
Butyl benzyl phthalate	<1.82	50.0	51.9	104	48.3	97	10-152	7	30	ug/L	06.25.13 12:13	
Chrysene	<2.09	50.0	46.2	92	48.1	96	17-168	4	30	ug/L	06.25.13 12:13	
Dibenz(a,h)anthracene	<1.83	50.0	43.0	86	46.7	93	10-227	8	30	ug/L	06.25.13 12:13	
Dibenzofuran	<1.64	50.0	40.3	81	43.5	87	55-105	8	30	ug/L	06.25.13 12:13	
Diethyl phthalate	<1.90	50.0	46.4	93	48.4	97	10-114	4	30	ug/L	06.25.13 12:13	
Dimethyl phthalate	<1.97	50.0	44.9	90	46.7	93	10-112	4	30	ug/L	06.25.13 12:13	
Di-n-butyl phthalate	<2.08	50.0	46.5	93	48.4	97	1-118	4	30	ug/L	06.25.13 12:13	
Di-n-octyl phthalate	<1.38	50.0	50.9	102	52.5	105	4-146	3	30	ug/L	06.25.13 12:13	
Fluoranthene	<1.81	50.0	46.3	93	48.4	97	26-137	4	30	ug/L	06.25.13 12:13	
Fluorene	<1.56	50.0	44.5	89	47.7	95	59-121	7	30	ug/L	06.25.13 12:13	
Hexachlorobenzene	<2.21	50.0	45.1	90	47.3	95	10-152	5	30	ug/L	06.25.13 12:13	
Hexachlorobutadiene	<1.78	50.0	30.5	61	31.0	62	24-116	2	30	ug/L	06.25.13 12:13	
Hexachlorocyclopentadiene	<1.87	50.0	9.69	19	9.47	19	70-130	2	30	ug/L	06.25.13 12:13	L
Hexachloroethane	<2.38	50.0	34.8	70	32.7	65	40-113	6	30	ug/L	06.25.13 12:13	
Indeno(1,2,3-c,d)pyrene	<1.87	50.0	42.1	84	44.7	89	10-171	6	30	ug/L	06.25.13 12:13	
Isophorone	<1.41	50.0	42.5	85	45.9	92	21-196	8	30	ug/L	06.25.13 12:13	

QC Summary 465343

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Analytical Method: **SVOCs by EPA 625M + 10 TICs** Prep Method: SW3520C
Seq Number: 917130 Matrix: Water Date Prep: 06.21.13
MB Sample Id: 640195-1-BLK LCS Sample Id: 640195-1-BKS LCSD Sample Id: 640195-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Naphthalene	<1.52	50.0	39.4	79	41.8	84	21-133	6	30	ug/L	06.25.13 12:13	
Nitrobenzene	<1.49	50.0	41.1	82	42.7	85	35-180	4	30	ug/L	06.25.13 12:13	
N-Nitrosodi-n-propylamine	<1.36	50.0	43.4	87	47.1	94	10-230	8	30	ug/L	06.25.13 12:13	
N-Nitrosodiphenylamine	<2.50	50.0	31.3	63	18.1	36	50-110	53	30	ug/L	06.25.13 12:13	LF
Pentachlorophenol	<2.26	50.0	23.0	46	21.9	44	14-176	5	30	ug/L	06.25.13 12:13	
Phenanthrene	<2.04	50.0	45.7	91	47.3	95	54-120	3	30	ug/L	06.25.13 12:13	
Phenol	<1.76	50.0	29.1	58	23.1	46	5-112	23	30	ug/L	06.25.13 12:13	
Pyrene	<2.40	50.0	46.0	92	47.0	94	52-115	2	30	ug/L	06.25.13 12:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
2,4,6-Tribromophenol	79		64		60		32-129	%	06.25.13 12:13
2-Fluorobiphenyl	76		79		89		39-99	%	06.25.13 12:13
2-Fluorophenol	70		57		49		33-92	%	06.25.13 12:13
Nitrobenzene-d5	72		75		81		37-94	%	06.25.13 12:13
Phenol-d5	69		69		60		28-88	%	06.25.13 12:13
Terphenyl-D14	102		98		104		18-133	%	06.25.13 12:13

Analytical Method: **SVOCs by EPA 625M + 10 TICs** Prep Method: SW3520C
Seq Number: 917130 Matrix: Water Date Prep: 06.21.13
MB Sample Id: 640195-1-BLK LCS Sample Id: 640195-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
3,3-Dichlorobenzidine	<3.88	50.0	13.6	27	10-262	ug/L	06.25.13 12:13	

Analytical Method: **SVOCs by EPA 625M + 10 TICs** Prep Method: SW3520C
Seq Number: 917130 Matrix: Water Date Prep: 06.21.13
MB Sample Id: 640195-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
1,2-Diphenylhydrazine (as Azobenzene)	U	ug/L	06.25.13 11:44	

QC Summary 465343

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Analytical Method: **SVOCs by EPA 625M + 10 TICs** Prep Method: SW3520C
Seq Number: 917130 Matrix: Ground Water Date Prep: 06.21.13
Parent Sample Id: 465284-006 MS Sample Id: 465284-006 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<1.43	50.0	22.1	44	44-142	ug/L	06.25.13 13:10	
1,2-Dichlorobenzene	<1.83	50.0	22.4	45	32-129	ug/L	06.25.13 13:10	
1,3-Dichlorobenzene	<2.11	50.0	21.4	43	10-172	ug/L	06.25.13 13:10	
1,3-Dinitrobenzene	<20.1	50.0	35.3	71	70-130	ug/L	06.25.13 13:10	
2,4,6-Trichlorophenol	<1.64	50.0	29.9	60	37-144	ug/L	06.25.13 13:10	
2,4-Dichlorophenol	<1.78	50.0	24.9	50	39-135	ug/L	06.25.13 13:10	
2,4-Dimethylphenol	<1.63	50.0	25.9	52	32-119	ug/L	06.25.13 13:10	
2,4-Dinitrophenol	<7.11	50.0	21.1	42	10-191	ug/L	06.25.13 13:10	
2,4-Dinitrotoluene	<2.14	50.0	35.7	71	39-139	ug/L	06.25.13 13:10	
2,6-Dinitrotoluene	<2.72	50.0	33.2	66	50-158	ug/L	06.25.13 13:10	
2-Chloronaphthalene	<1.29	50.0	29.1	58	60-118	ug/L	06.25.13 13:10	X
2-Chlorophenol	<1.83	50.0	22.2	44	23-134	ug/L	06.25.13 13:10	
2-Methylnaphthalene	<1.19	50.0	23.4	47	45-105	ug/L	06.25.13 13:10	
2-Methylphenol	<2.00	50.0	22.7	45	40-110	ug/L	06.25.13 13:10	
2-Nitrophenol	<1.95	50.0	23.6	47	29-182	ug/L	06.25.13 13:10	
3&4-Methylphenol	<2.55	100	46.1	46	30-110	ug/L	06.25.13 13:10	
3,3-Dichlorobenzidine	<3.88	50.0	9.23	18	10-262	ug/L	06.25.13 13:10	
4,6-Dinitro-2-methyl phenol	<1.40	50.0	24.4	49	10-181	ug/L	06.25.13 13:10	
4-Bromophenyl phenyl ether	<2.12	50.0	32.2	64	53-127	ug/L	06.25.13 13:10	
4-Chloro-3-methylphenol	<2.18	50.0	30.7	61	22-147	ug/L	06.25.13 13:10	
4-Chloroaniline	<3.09	50.0	7.96	16	15-110	ug/L	06.25.13 13:10	
4-Chlorophenyl phenyl ether	<1.35	50.0	31.6	63	25-158	ug/L	06.25.13 13:10	
4-Nitrophenol	<2.41	50.0	14.3	29	10-132	ug/L	06.25.13 13:10	
Acenaphthene	<1.43	50.0	30.9	62	47-145	ug/L	06.25.13 13:10	
Acenaphthylene	<1.48	50.0	32.6	65	33-145	ug/L	06.25.13 13:10	
Anthracene	<2.01	50.0	32.5	65	27-133	ug/L	06.25.13 13:10	
Benzo(a)anthracene	<1.90	50.0	34.6	69	33-143	ug/L	06.25.13 13:10	
Benzo(a)pyrene	<1.80	50.0	24.0	48	17-163	ug/L	06.25.13 13:10	
Benzo(b)fluoranthene	<1.97	50.0	32.1	64	24-159	ug/L	06.25.13 13:10	
Benzo(g,h,i)perylene	<1.97	50.0	31.9	64	10-219	ug/L	06.25.13 13:10	
Benzo(k)fluoranthene	<2.71	50.0	30.4	61	11-162	ug/L	06.25.13 13:10	
Benzoic acid	<2.21	50.0	17.0	34	1-125	ug/L	06.25.13 13:10	
Benzyl alcohol	<1.23	50.0	20.2	40	30-110	ug/L	06.25.13 13:10	
Bis(2-chloroethoxy) methane	<1.25	50.0	26.2	52	33-184	ug/L	06.25.13 13:10	
Bis(2-chloroethyl) ether	<1.78	50.0	24.6	49	12-158	ug/L	06.25.13 13:10	
Bis(2-chloroisopropyl) ether	<1.24	50.0	30.7	61	36-166	ug/L	06.25.13 13:10	
Bis(2-ethylhexyl) phthalate	3.82	50.0	37.2	67	8-158	ug/L	06.25.13 13:10	
Butyl benzyl phthalate	<1.82	50.0	38.0	76	10-152	ug/L	06.25.13 13:10	
Chrysene	<2.09	50.0	33.4	67	17-168	ug/L	06.25.13 13:10	
Dibenz(a,h)anthracene	<1.83	50.0	30.6	61	10-227	ug/L	06.25.13 13:10	
Dibenzofuran	<1.64	50.0	30.3	61	55-105	ug/L	06.25.13 13:10	
Diethyl phthalate	<1.90	50.0	35.8	72	10-114	ug/L	06.25.13 13:10	
Dimethyl phthalate	<1.97	50.0	34.2	68	10-112	ug/L	06.25.13 13:10	
Di-n-butyl phthalate	<2.08	50.0	34.0	68	1-118	ug/L	06.25.13 13:10	
Di-n-octyl phthalate	<1.38	50.0	34.3	69	4-146	ug/L	06.25.13 13:10	
Fluoranthene	<1.81	50.0	33.9	68	26-137	ug/L	06.25.13 13:10	
Fluorene	<1.56	50.0	33.5	67	59-121	ug/L	06.25.13 13:10	
Hexachlorobenzene	<2.21	50.0	32.7	65	10-152	ug/L	06.25.13 13:10	
Hexachlorobutadiene	<1.78	50.0	17.7	35	24-116	ug/L	06.25.13 13:10	
Hexachlorocyclopentadiene	<1.87	50.0	11.3	23	70-130	ug/L	06.25.13 13:10	X
Hexachloroethane	<2.38	50.0	20.0	40	40-113	ug/L	06.25.13 13:10	
Indeno(1,2,3-c,d)pyrene	<1.87	50.0	29.2	58	10-171	ug/L	06.25.13 13:10	

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services

Apex Village

Analytical Method: **SVOCs by EPA 625M + 10 TICs** Prep Method: SW3520C

Seq Number: 917130 Matrix: Ground Water Date Prep: 06.21.13

Parent Sample Id: 465284-006 MS Sample Id: 465284-006 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Isophorone	<1.41	50.0	28.7	57	21-196	ug/L	06.25.13 13:10	
Naphthalene	<1.52	50.0	24.6	49	21-133	ug/L	06.25.13 13:10	
Nitrobenzene	<1.49	50.0	25.6	51	35-180	ug/L	06.25.13 13:10	
N-Nitrosodi-n-propylamine	<1.36	50.0	29.8	60	10-230	ug/L	06.25.13 13:10	
N-Nitrosodiphenylamine	<2.50	50.0	28.2	56	50-110	ug/L	06.25.13 13:10	
Pentachlorophenol	<2.26	50.0	27.4	55	14-176	ug/L	06.25.13 13:10	
Phenanthrene	<2.04	50.0	33.2	66	54-120	ug/L	06.25.13 13:10	
Phenol	<1.76	50.0	15.5	31	5-112	ug/L	06.25.13 13:10	
Pyrene	<2.40	50.0	34.2	68	52-115	ug/L	06.25.13 13:10	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
2,4,6-Tribromophenol	78		32-129	%	06.25.13 13:10
2-Fluorobiphenyl	68		39-99	%	06.25.13 13:10
2-Fluorophenol	55		33-92	%	06.25.13 13:10
Nitrobenzene-d5	58		37-94	%	06.25.13 13:10
Phenol-d5	57		28-88	%	06.25.13 13:10
Terphenyl-D14	86		18-133	%	06.25.13 13:10

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **SVOCs by SW-846 8270D** Prep Method: SW3550

Seq Number: 916744 Matrix: Solid Date Prep: 06.20.13

MB Sample Id: 639993-1-BLK LCS Sample Id: 639993-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<0.0590	1.67	1.45	87	52-104	mg/kg	06.20.13 18:23	
1,2-Dichlorobenzene	<0.0540	1.67	1.39	83	49-103	mg/kg	06.20.13 18:23	
1,2-Diphenylhydrazine	<0.0367	1.67	1.40	84	43-133	mg/kg	06.20.13 18:23	
1,3-Dichlorobenzene	<0.0527	1.67	1.41	84	48-101	mg/kg	06.20.13 18:23	
1,4-Dichlorobenzene	<0.0520	1.67	1.38	83	46-99	mg/kg	06.20.13 18:23	
2,4,6-Trichlorophenol	<0.0643	1.67	1.44	86	47-118	mg/kg	06.20.13 18:23	
2,4-Dichlorophenol	<0.0423	1.67	1.35	81	51-109	mg/kg	06.20.13 18:23	
2,4-Dimethylphenol	<0.0607	1.67	1.38	83	46-106	mg/kg	06.20.13 18:23	
2,4-Dinitrophenol	<0.0537	1.67	1.08	65	15-130	mg/kg	06.20.13 18:23	
2,4-Dinitrotoluene	<0.0537	1.67	1.48	89	53-125	mg/kg	06.20.13 18:23	
2,6-Dinitrotoluene	<0.0433	1.67	1.43	86	48-128	mg/kg	06.20.13 18:23	
2-Chloronaphthalene	<0.0607	1.67	1.44	86	54-109	mg/kg	06.20.13 18:23	
2-Chlorophenol	<0.0597	1.67	1.36	81	47-105	mg/kg	06.20.13 18:23	
2-Methylnaphthalene	<0.0510	1.67	1.29	77	45-102	mg/kg	06.20.13 18:23	
2-methylphenol	<0.0467	1.67	1.29	77	48-106	mg/kg	06.20.13 18:23	
2-Nitrophenol	<0.0420	1.67	1.35	81	38-118	mg/kg	06.20.13 18:23	
3&4-Methylphenol	<0.0987	3.33	2.67	80	40-105	mg/kg	06.20.13 18:23	
3,3-Dichlorobenzidine	<0.0487	1.67	1.19	71	14-139	mg/kg	06.20.13 18:23	
4,6-dinitro-2-methyl phenol	<0.0580	1.67	1.24	74	14-141	mg/kg	06.20.13 18:23	
4-Bromophenyl-phenylether	<0.0567	1.67	1.58	95	54-119	mg/kg	06.20.13 18:23	
4-chloro-3-methylphenol	<0.0477	1.67	1.37	82	45-115	mg/kg	06.20.13 18:23	
4-Chloroaniline	<0.0553	1.67	1.00	60	16-139	mg/kg	06.20.13 18:23	
4-Chlorophenyl Phenyl Ether	<0.0633	1.67	1.50	90	56-113	mg/kg	06.20.13 18:23	
4-Nitrophenol	<0.0410	1.67	1.09	65	35-122	mg/kg	06.20.13 18:23	
Acenaphthene	<0.0467	1.67	1.48	89	50-113	mg/kg	06.20.13 18:23	
Acenaphthylene	<0.0567	1.67	1.54	92	57-126	mg/kg	06.20.13 18:23	
Anthracene	<0.0493	1.67	1.48	89	60-116	mg/kg	06.20.13 18:23	
Benzo(a)anthracene	<0.0540	1.67	1.51	90	56-123	mg/kg	06.20.13 18:23	
Benzo(a)pyrene	<0.0490	1.67	1.45	87	58-101	mg/kg	06.20.13 18:23	
Benzo(b)fluoranthene	<0.0543	1.67	1.53	92	60-111	mg/kg	06.20.13 18:23	
Benzo(g,h,i)perylene	<0.0550	1.67	1.43	86	57-122	mg/kg	06.20.13 18:23	
Benzo(k)fluoranthene	<0.0573	1.67	1.45	87	59-116	mg/kg	06.20.13 18:23	
Benzoic Acid	<0.0527	1.67	1.19	71	50-125	mg/kg	06.20.13 18:23	
Benzyl Alcohol	<0.0533	1.67	1.33	80	45-107	mg/kg	06.20.13 18:23	
bis(2-chloroethoxy) methane	<0.0400	1.67	1.43	86	50-106	mg/kg	06.20.13 18:23	
bis(2-chloroethyl) ether	<0.0473	1.67	1.35	81	50-103	mg/kg	06.20.13 18:23	
bis(2-chloroisopropyl) ether	<0.0450	1.67	1.66	99	43-117	mg/kg	06.20.13 18:23	
bis(2-ethylhexyl) phthalate	<0.0540	1.67	1.40	84	46-137	mg/kg	06.20.13 18:23	
Butylbenzylphthalate	<0.0500	1.67	1.41	84	44-137	mg/kg	06.20.13 18:23	
Chrysene	<0.0443	1.67	1.47	88	57-114	mg/kg	06.20.13 18:23	
Dibenz(a,h)Anthracene	<0.0647	1.67	1.44	86	57-123	mg/kg	06.20.13 18:23	
Dibenzofuran	<0.0427	1.67	1.36	81	50-109	mg/kg	06.20.13 18:23	
Diethyl Phthalate	<0.0537	1.67	1.44	86	51-124	mg/kg	06.20.13 18:23	
Dimethyl Phthalate	<0.0503	1.67	1.46	87	53-116	mg/kg	06.20.13 18:23	
di-n-Butyl Phthalate	<0.0613	1.67	1.40	84	53-127	mg/kg	06.20.13 18:23	
di-n-Octyl Phthalate	<0.0553	1.67	1.37	82	46-133	mg/kg	06.20.13 18:23	
Fluoranthene	<0.0433	1.67	1.51	90	61-115	mg/kg	06.20.13 18:23	
Fluorene	<0.0407	1.67	1.46	87	55-114	mg/kg	06.20.13 18:23	
Hexachlorobenzene	<0.0557	1.67	1.72	103	54-121	mg/kg	06.20.13 18:23	
Hexachlorobutadiene	<0.0370	1.67	1.42	85	50-110	mg/kg	06.20.13 18:23	
Hexachlorocyclopentadiene	<0.0573	1.67	1.32	79	60-144	mg/kg	06.20.13 18:23	
Hexachloroethane	<0.0517	1.67	1.28	77	42-109	mg/kg	06.20.13 18:23	

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services

Apex Village

Analytical Method: **SVOCs by SW-846 8270D** Prep Method: SW3550

Seq Number: 916744 Matrix: Solid Date Prep: 06.20.13

MB Sample Id: 639993-1-BLK LCS Sample Id: 639993-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Indeno(1,2,3-c,d)Pyrene	<0.0607	1.67	1.39	83	58-127	mg/kg	06.20.13 18:23	
Isophorone	<0.0343	1.67	1.37	82	47-143	mg/kg	06.20.13 18:23	
Naphthalene	<0.0533	1.67	1.41	84	50-106	mg/kg	06.20.13 18:23	
Nitrobenzene	<0.0593	1.67	1.33	80	47-107	mg/kg	06.20.13 18:23	
N-Nitrosodi-n-Propylamine	<0.0477	1.67	1.43	86	43-125	mg/kg	06.20.13 18:23	
N-Nitrosodiphenylamine	<0.0700	1.67	1.54	92	54-127	mg/kg	06.20.13 18:23	
Pentachlorophenol	<0.0603	1.67	1.34	80	10-141	mg/kg	06.20.13 18:23	
Phenanthrene	<0.0553	1.67	1.49	89	59-112	mg/kg	06.20.13 18:23	
Phenol	<0.0467	1.67	1.29	77	45-108	mg/kg	06.20.13 18:23	
Pyrene	<0.0567	1.67	1.44	86	52-124	mg/kg	06.20.13 18:23	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	Limits	Units	Analysis Date
2-Fluorobiphenyl	50		84		20-112	%	06.20.13 18:23
2-Fluorophenol	3	**	81		18-101	%	06.20.13 18:23
Nitrobenzene-d5	33		75		13-112	%	06.20.13 18:23
Phenol-d5	8	**	78		15-110	%	06.20.13 18:23
Terphenyl-D14	83		84		21-138	%	06.20.13 18:23
2,4,6-Tribromophenol	82		107		21-128	%	06.20.13 18:23

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **SVOCs by SW-846 8270D** Prep Method: SW3550
Seq Number: 916744 Matrix: Soil Date Prep: 06.20.13
Parent Sample Id: 465343-001 MS Sample Id: 465343-001 S MSD Sample Id: 465343-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<0.0588	1.66	1.21	73	1.03	62	45-110	16	30	mg/kg	06.20.13 20:17	
1,2-Dichlorobenzene	<0.0538	1.66	1.13	68	1.04	63	45-100	8	30	mg/kg	06.20.13 20:17	
1,2-Diphenylhydrazine	<0.0365	1.66	1.26	76	1.21	73	45-120	4	30	mg/kg	06.20.13 20:17	
1,3-Dichlorobenzene	<0.0525	1.66	1.12	67	1.02	61	40-100	9	30	mg/kg	06.20.13 20:17	
1,4-Dichlorobenzene	<0.0518	1.66	1.12	67	1.01	61	35-105	10	30	mg/kg	06.20.13 20:17	
2,4,6-Trichlorophenol	<0.0641	1.66	1.26	76	1.07	64	45-110	16	30	mg/kg	06.20.13 20:17	
2,4-Dichlorophenol	<0.0422	1.66	1.20	72	1.05	63	45-110	13	30	mg/kg	06.20.13 20:17	
2,4-Dimethylphenol	<0.0604	1.66	1.18	71	1.09	66	30-105	8	30	mg/kg	06.20.13 20:17	
2,4-Dinitrophenol	<0.0535	1.66	0.887	53	0.722	43	15-130	21	30	mg/kg	06.20.13 20:17	
2,4-Dinitrotoluene	<0.0535	1.66	1.31	79	1.23	74	50-115	6	30	mg/kg	06.20.13 20:17	
2,6-Dinitrotoluene	<0.0432	1.66	1.28	77	1.18	71	50-110	8	30	mg/kg	06.20.13 20:17	
2-Chloronaphthalene	<0.0604	1.66	1.27	77	1.13	68	45-105	12	30	mg/kg	06.20.13 20:17	
2-Chlorophenol	<0.0594	1.66	1.11	67	1.04	63	45-105	7	30	mg/kg	06.20.13 20:17	
2-Methylnaphthalene	<0.0508	1.66	1.12	67	0.997	60	45-105	12	30	mg/kg	06.20.13 20:17	
2-methylphenol	<0.0465	1.66	1.12	67	1.08	65	40-105	4	30	mg/kg	06.20.13 20:17	
2-Nitrophenol	<0.0418	1.66	1.11	67	0.991	60	40-110	11	30	mg/kg	06.20.13 20:17	
3&4-Methylphenol	<0.0983	3.32	2.27	68	2.14	64	40-105	6	30	mg/kg	06.20.13 20:17	
3,3-Dichlorobenzidine	<0.0485	1.66	1.02	61	0.935	56	20-140	9	30	mg/kg	06.20.13 20:17	
4,6-dinitro-2-methyl phenol	<0.0578	1.66	1.12	67	0.840	51	30-135	29	30	mg/kg	06.20.13 20:17	
4-Bromophenyl-phenylether	<0.0565	1.66	1.43	86	1.16	70	45-115	21	30	mg/kg	06.20.13 20:17	
4-chloro-3-methylphenol	<0.0475	1.66	1.18	71	1.10	66	45-115	7	30	mg/kg	06.20.13 20:17	
4-Chloroaniline	<0.0551	1.66	0.920	55	0.871	52	4-149	5	30	mg/kg	06.20.13 20:17	
4-Chlorophenyl Phenyl Ether	<0.0631	1.66	1.31	79	1.11	67	45-110	17	30	mg/kg	06.20.13 20:17	
4-Nitrophenol	<0.0409	1.66	0.959	58	1.03	62	15-140	7	30	mg/kg	06.20.13 20:17	
Acenaphthene	<0.0465	1.66	1.29	78	1.16	70	45-110	11	30	mg/kg	06.20.13 20:17	
Acenaphthylene	<0.0565	1.66	1.36	82	1.23	74	45-105	10	30	mg/kg	06.20.13 20:17	
Anthracene	<0.0492	1.66	1.32	80	1.17	70	55-105	12	30	mg/kg	06.20.13 20:17	
Benzo(a)anthracene	<0.0538	1.66	1.36	82	1.22	73	50-110	11	30	mg/kg	06.20.13 20:17	
Benzo(a)pyrene	<0.0488	1.66	1.27	77	1.15	69	50-110	10	30	mg/kg	06.20.13 20:17	
Benzo(b)fluoranthene	<0.0541	1.66	1.31	79	1.16	70	45-115	12	30	mg/kg	06.20.13 20:17	
Benzo(g,h,i)perylene	<0.0548	1.66	1.29	78	1.24	75	40-125	4	30	mg/kg	06.20.13 20:17	
Benzo(k)fluoranthene	<0.0571	1.66	1.28	77	1.13	68	45-125	12	30	mg/kg	06.20.13 20:17	
Benzoic Acid	<0.0525	1.66	0.944	57	0.890	54	50-125	6	30	mg/kg	06.20.13 20:17	
Benzyl Alcohol	<0.0531	1.66	1.14	69	1.06	64	20-125	7	30	mg/kg	06.20.13 20:17	
bis(2-chloroethoxy) methane	<0.0399	1.66	1.23	74	1.11	67	45-110	10	30	mg/kg	06.20.13 20:17	
bis(2-chloroethyl) ether	<0.0472	1.66	1.13	68	1.10	66	40-105	3	30	mg/kg	06.20.13 20:17	
bis(2-chloroisopropyl) ether	<0.0448	1.66	1.38	83	1.33	80	20-115	4	30	mg/kg	06.20.13 20:17	
bis(2-ethylhexyl) phthalate	<0.0538	1.66	1.29	78	1.34	81	45-125	4	30	mg/kg	06.20.13 20:17	
Butylbenzylphthalate	<0.0498	1.66	1.29	78	1.26	76	50-125	2	30	mg/kg	06.20.13 20:17	
Chrysene	<0.0442	1.66	1.30	78	1.17	70	55-110	11	30	mg/kg	06.20.13 20:17	
Dibenz(a,h)Anthracene	<0.0644	1.66	1.28	77	1.16	70	40-125	10	30	mg/kg	06.20.13 20:17	
Dibenzofuran	<0.0425	1.66	1.21	73	1.07	64	50-105	12	30	mg/kg	06.20.13 20:17	
Diethyl Phthalate	<0.0535	1.66	1.29	78	1.21	73	50-115	6	30	mg/kg	06.20.13 20:17	
Dimethyl Phthalate	<0.0501	1.66	1.29	78	1.19	72	50-110	8	30	mg/kg	06.20.13 20:17	
di-n-Butyl Phthalate	<0.0611	1.66	1.29	78	1.19	72	55-110	8	30	mg/kg	06.20.13 20:17	
di-n-Octyl Phthalate	<0.0551	1.66	1.26	76	1.26	76	40-130	0	30	mg/kg	06.20.13 20:17	
Fluoranthene	<0.0432	1.66	1.37	83	1.21	73	55-115	12	30	mg/kg	06.20.13 20:17	
Fluorene	<0.0405	1.66	1.31	79	1.18	71	50-110	10	30	mg/kg	06.20.13 20:17	
Hexachlorobenzene	<0.0555	1.66	1.48	89	1.19	72	45-120	22	30	mg/kg	06.20.13 20:17	
Hexachlorobutadiene	<0.0369	1.66	1.15	69	1.02	61	40-115	12	30	mg/kg	06.20.13 20:17	
Hexachlorocyclopentadiene	<0.0571	1.66	1.09	66	0.903	54	65-135	19	30	mg/kg	06.20.13 20:17	X
Hexachloroethane	<0.0515	1.66	1.06	64	1.08	65	35-110	2	30	mg/kg	06.20.13 20:17	

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **SVOCs by SW-846 8270D** Prep Method: SW3550
Seq Number: 916744 Matrix: Soil Date Prep: 06.20.13
Parent Sample Id: 465343-001 MS Sample Id: 465343-001 S MSD Sample Id: 465343-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Indeno(1,2,3-c,d)Pyrene	<0.0604	1.66	1.24	75	1.13	68	40-120	9	30	mg/kg	06.20.13 20:17	
Isophorone	<0.0342	1.66	1.20	72	1.13	68	45-110	6	30	mg/kg	06.20.13 20:17	
Naphthalene	<0.0531	1.66	1.21	73	1.09	66	40-105	10	30	mg/kg	06.20.13 20:17	
Nitrobenzene	<0.0591	1.66	1.11	67	1.07	64	40-115	4	30	mg/kg	06.20.13 20:17	
N-Nitrosodi-n-Propylamine	<0.0475	1.66	1.23	74	1.22	73	40-115	1	30	mg/kg	06.20.13 20:17	
N-Nitrosodiphenylamine	<0.0697	1.66	1.37	83	1.21	73	50-115	12	30	mg/kg	06.20.13 20:17	
Pentachlorophenol	<0.0601	1.66	1.18	71	0.956	58	25-120	21	30	mg/kg	06.20.13 20:17	
Phenanthrene	<0.0551	1.66	1.33	80	1.18	71	50-110	12	30	mg/kg	06.20.13 20:17	
Phenol	<0.0465	1.66	1.07	64	1.02	61	40-100	5	30	mg/kg	06.20.13 20:17	
Pyrene	<0.0565	1.66	1.29	78	1.16	70	45-125	11	30	mg/kg	06.20.13 20:17	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
2-Fluorobiphenyl	69		62		20-112	%	06.20.13 20:17
2-Fluorophenol	62		60		18-101	%	06.20.13 20:17
Nitrobenzene-d5	61		60		13-112	%	06.20.13 20:17
Phenol-d5	63		61		15-110	%	06.20.13 20:17
Terphenyl-D14	72		69		21-138	%	06.20.13 20:17
2,4,6-Tribromophenol	88		67		21-128	%	06.20.13 20:17

Analytical Method: **MADEP VPH REV 1.1** Prep Method: SW5030B
Seq Number: 916782 Matrix: Water Date Prep: 06.20.13
MB Sample Id: 640027-1-BLK LCS Sample Id: 640027-1-BKS LCSD Sample Id: 640027-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C5-C8 Aliphatics (Unadj.)	<15.0	150	161	107	161	107	70-130	0	25	ug/L	06.20.13 11:35	
C9-C10 Aromatics (Unadj.)	<5.00	50.0	51.0	102	51.0	102	70-130	0	25	ug/L	06.20.13 11:35	
C9-C12 Aliphatics (Unadj.)	<15.0	150	152	101	152	101	70-130	0	25	ug/L	06.20.13 11:35	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
2,5-Dibromotoluene	100		123		130		70-130	%	06.20.13 11:35
2,5-Dibromotoluene (PID)	98		120		128		70-130	%	06.20.13 11:35

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **MADEP VPH REV 1.1** Prep Method: SW5030B
Seq Number: 916782 Matrix: Ground Water Date Prep: 06.20.13
Parent Sample Id: 465343-006 MS Sample Id: 465343-006 S MSD Sample Id: 465343-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C5-C8 Aliphatics (Unadj.)	<15.0	150	132	88	134	89	70-130	2	25	ug/L	06.20.13 17:10	
C9-C10 Aromatics (Unadj.)	<5.00	50.0	64.0	128	64.0	128	70-130	0	25	ug/L	06.20.13 17:10	
C9-C12 Aliphatics (Unadj.)	50.0	150	143	62	128	52	70-130	11	25	ug/L	06.20.13 17:10	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
2,5-Dibromotoluene	113		105		70-130	%	06.20.13 17:10
2,5-Dibromotoluene (PID)	108		103		70-130	%	06.20.13 17:10

Analytical Method: **MADEP VPH REV 1.1** Prep Method: SW5030B
Seq Number: 917180 Matrix: Solid Date Prep: 06.26.13
MB Sample Id: 640310-1-BLK LCS Sample Id: 640310-1-BKS LCSD Sample Id: 640310-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Unadjusted C5-C8 Aliphatics	<0.750	7.50	7.50	100	8.00	107	70-130	6	25	mg/kg	06.26.13 10:17	
Unadjusted C9-C12 Aliphatics	<0.750	7.50	8.00	107	7.50	100	70-130	6	25	mg/kg	06.26.13 10:17	
Unadjusted C9-C10 Aromatics	<0.250	2.50	2.50	100	2.50	100	70-130	0	25	mg/kg	06.26.13 10:17	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
2,5-Dibromotoluene	100		125		125		70-130	%	06.26.13 10:17
2,5-Dibromotoluene (PID)	125		125		125		70-130	%	06.26.13 10:17

Analytical Method: **MADEP VPH REV 1.1** Prep Method: SW5030B
Seq Number: 917180 Matrix: Soil Date Prep: 06.26.13
Parent Sample Id: 465343-002 MD Sample Id: 465343-002 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Unadjusted C5-C8 Aliphatics	<0.750	<0.750	0	25	mg/kg	06.26.13 13:14	U
Unadjusted C9-C12 Aliphatics	<0.750	<0.750	0	25	mg/kg	06.26.13 13:14	U
Unadjusted C9-C10 Aromatics	<0.250	<0.250	0	25	mg/kg	06.26.13 13:14	U

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **MADEP VPH REV 1.1** Prep Method: SW5030B

Seq Number: 917180 Matrix: Soil Date Prep: 06.26.13

Parent Sample Id: 465343-002 MS Sample Id: 465343-002 S MSD Sample Id: 465343-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Unadjusted C5-C8 Aliphatics	<0.750	7.50	7.00	93	7.50	100	70-130	7	25	mg/kg	06.26.13 13:59	
Unadjusted C9-C12 Aliphatics	<0.750	7.50	6.00	80	6.50	87	70-130	8	25	mg/kg	06.26.13 13:59	
Unadjusted C9-C10 Aromatics	<0.250	2.50	2.00	80	2.00	80	70-130	0	25	mg/kg	06.26.13 13:59	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
2,5-Dibromotoluene	75		100		70-130	%	06.26.13 13:59
2,5-Dibromotoluene (PID)	100		100		70-130	%	06.26.13 13:59

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **VOCs by GC/MS by SM6200B** Prep Method: SM6200B_PREP
Seq Number: 917159 Matrix: Water Date Prep: 06.26.13
MB Sample Id: 640292-1-BLK LCS Sample Id: 640292-1-BKS LCSD Sample Id: 640292-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.0760	25.0	24.2	97	24.6	98	82-129	2	20	ug/L	06.26.13 08:20	
1,1,2,2-Tetrachloroethane	<0.0700	25.0	24.0	96	24.5	98	73-129	2	20	ug/L	06.26.13 08:20	
1,1,2-Trichloroethane	<0.113	25.0	23.6	94	22.9	92	78-126	3	20	ug/L	06.26.13 08:20	
1,1-Dichloroethane	<0.121	25.0	23.4	94	24.5	98	76-131	5	20	ug/L	06.26.13 08:20	
1,1-Dichloroethene	<0.104	25.0	24.2	97	25.4	102	81-132	5	22	ug/L	06.26.13 08:20	
1,1-Dichloropropene	<0.0600	25.0	24.4	98	24.1	96	83-134	1	20	ug/L	06.26.13 08:20	
1,2,3-Trichlorobenzene	<0.118	25.0	25.0	100	24.7	99	69-148	1	20	ug/L	06.26.13 08:20	
1,2,3-Trichloropropane	<0.138	25.0	23.8	95	24.3	97	75-124	2	20	ug/L	06.26.13 08:20	
1,2,4-Trichlorobenzene	<0.0690	25.0	25.5	102	25.0	100	77-140	2	20	ug/L	06.26.13 08:20	
1,2,4-Trimethylbenzene	<0.103	25.0	24.4	98	24.7	99	85-123	1	20	ug/L	06.26.13 08:20	
1,2-Dibromoethane (EDB)	<0.180	25.0	25.0	100	24.8	99	80-130	1	20	ug/L	06.26.13 08:20	
1,2-Dichlorobenzene	<0.0940	25.0	23.9	96	23.6	94	87-122	1	20	ug/L	06.26.13 08:20	
1,2-Dichloroethane	<0.0900	25.0	23.7	95	23.8	95	70-127	0	20	ug/L	06.26.13 08:20	
1,2-Dichloropropane	<0.122	25.0	24.4	98	23.4	94	73-140	4	20	ug/L	06.26.13 08:20	
1,3,5-Trimethylbenzene	<0.0870	25.0	24.4	98	24.5	98	83-129	0	20	ug/L	06.26.13 08:20	
1,3-Dichlorobenzene	<0.0980	25.0	23.9	96	23.9	96	88-120	0	20	ug/L	06.26.13 08:20	
1,3-Dichloropropane	<0.133	25.0	24.2	97	24.0	96	77-127	1	20	ug/L	06.26.13 08:20	
1,4-Dichlorobenzene	<0.0670	25.0	23.4	94	23.7	95	86-116	1	20	ug/L	06.26.13 08:20	
2,2-Dichloropropane	<0.0970	25.0	25.4	102	28.1	112	86-141	10	20	ug/L	06.26.13 08:20	
2-Butanone (MEK)	<0.378	50.0	47.3	95	48.9	98	53-149	3	20	ug/L	06.26.13 08:20	
2-Chlorotoluene	<0.0880	25.0	23.5	94	23.9	96	84-126	2	20	ug/L	06.26.13 08:20	
2-Hexanone	<0.352	50.0	50.0	100	50.9	102	68-140	2	20	ug/L	06.26.13 08:20	
4-Chlorotoluene	<0.0900	25.0	24.0	96	24.3	97	85-125	1	20	ug/L	06.26.13 08:20	
4-Isopropyltoluene	<0.0890	25.0	24.9	100	25.0	100	83-132	0	20	ug/L	06.26.13 08:20	
4-Methyl-2-pentanone (MIBK)	<0.253	50.0	49.1	98	49.5	99	66-135	1	20	ug/L	06.26.13 08:20	
Acetone	<0.352	50.0	61.8	124	70.5	141	58-168	13	21	ug/L	06.26.13 08:20	
Benzene	<0.119	25.0	23.6	94	23.6	94	78-136	0	20	ug/L	06.26.13 08:20	
Bromobenzene	<0.132	25.0	23.6	94	24.2	97	80-121	3	20	ug/L	06.26.13 08:20	
Bromochloromethane	<0.112	25.0	23.0	92	24.8	99	81-127	8	20	ug/L	06.26.13 08:20	
Bromodichloromethane	<0.124	25.0	25.1	100	25.4	102	89-128	1	20	ug/L	06.26.13 08:20	
Bromoform	<0.159	25.0	25.8	103	26.1	104	74-114	1	20	ug/L	06.26.13 08:20	
Bromomethane	<0.0970	25.0	21.9	88	22.5	90	80-132	3	20	ug/L	06.26.13 08:20	
Carbon tetrachloride	<0.0990	25.0	21.9	88	24.9	100	78-140	13	20	ug/L	06.26.13 08:20	
Chlorobenzene	<0.105	25.0	23.4	94	24.3	97	86-118	4	20	ug/L	06.26.13 08:20	
Chlorodibromomethane	<0.177	25.0	26.2	105	26.7	107	82-131	2	20	ug/L	06.26.13 08:20	
Chloroethane	<0.0420	25.0	22.3	89	22.6	90	71-132	1	20	ug/L	06.26.13 08:20	
Chloroform	<0.172	25.0	23.1	92	23.7	95	79-126	3	20	ug/L	06.26.13 08:20	
Chloromethane	<0.0850	25.0	22.6	90	22.3	89	69-135	1	20	ug/L	06.26.13 08:20	
cis-1,2-Dichloroethene	<0.114	25.0	23.5	94	24.3	97	79-133	3	20	ug/L	06.26.13 08:20	
cis-1,3-Dichloropropene	<0.100	25.0	26.2	105	25.6	102	75-138	2	20	ug/L	06.26.13 08:20	
Dichlorodifluoromethane	<0.0670	25.0	25.0	100	25.6	102	57-142	2	20	ug/L	06.26.13 08:20	
Ethanol	<3.00	1000	917	92	923	92	70-130	1	20	ug/L	06.26.13 08:20	
Ethylbenzene	<0.0920	25.0	24.1	96	24.4	98	84-124	1	20	ug/L	06.26.13 08:20	
Isopropyl ether	<0.0920	25.0	23.5	94	24.2	97	61-146	3	20	ug/L	06.26.13 08:20	
Isopropylbenzene	<0.0980	25.0	24.4	98	24.5	98	84-131	0	20	ug/L	06.26.13 08:20	
Methyl tert-butyl ether (MTBE)	<0.169	50.0	47.0	94	49.2	98	55-145	5	20	ug/L	06.26.13 08:20	
Methylene Chloride	<0.190	25.0	27.9	112	30.5	122	74-131	9	20	ug/L	06.26.13 08:20	
Naphthalene	<0.0940	25.0	25.5	102	25.3	101	74-144	1	20	ug/L	06.26.13 08:20	
n-Butylbenzene	<0.0600	25.0	25.8	103	25.7	103	80-134	0	20	ug/L	06.26.13 08:20	
n-Propylbenzene	<0.0650	25.0	24.2	97	24.4	98	82-129	1	20	ug/L	06.26.13 08:20	
sec-Butylbenzene	<0.0920	25.0	24.4	98	24.3	97	80-131	0	20	ug/L	06.26.13 08:20	
Styrene	<0.0740	25.0	24.1	96	24.9	100	88-123	3	20	ug/L	06.26.13 08:20	

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **VOCs by GC/MS by SM6200B** Prep Method: SM6200B_PREP
Seq Number: 917159 Matrix: Water Date Prep: 06.26.13
MB Sample Id: 640292-1-BLK LCS Sample Id: 640292-1-BKS LCSD Sample Id: 640292-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
tert-Butylbenzene	<0.0890	25.0	24.3	97	24.5	98	83-134	1	20	ug/L	06.26.13 08:20	
Tetrachloroethene (PCE)	<0.0540	25.0	24.4	98	23.8	95	83-126	2	20	ug/L	06.26.13 08:20	
Toluene	<0.0570	25.0	24.4	98	24.1	96	87-121	1	20	ug/L	06.26.13 08:20	
trans-1,2-Dichloroethene	<0.188	25.0	24.2	97	25.2	101	81-135	4	20	ug/L	06.26.13 08:20	
trans-1,3-Dichloropropene	<0.110	25.0	26.0	104	25.8	103	75-117	1	20	ug/L	06.26.13 08:20	
Trichloroethene	<0.139	25.0	24.4	98	22.3	89	84-125	9	20	ug/L	06.26.13 08:20	
Trichlorofluoromethane	<0.0540	25.0	23.5	94	25.1	100	65-143	7	20	ug/L	06.26.13 08:20	
Vinyl Acetate	<0.720	25.0	24.6	98	24.8	99	47-154	1	20	ug/L	06.26.13 08:20	
Vinyl Chloride	<0.0810	25.0	23.5	94	24.0	96	75-132	2	20	ug/L	06.26.13 08:20	
m,p-Xylenes	<0.176	50.0	47.9	96	48.2	96	85-127	1	20	ug/L	06.26.13 08:20	
o-Xylene	<0.122	25.0	24.5	98	25.1	100	86-124	2	20	ug/L	06.26.13 08:20	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	110		95		102		53-159	%	06.26.13 08:20
4-Bromofluorobenzene	102		98		97		30-186	%	06.26.13 08:20
Toluene-D8	92		99		98		70-130	%	06.26.13 08:20

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: VOCs by GC/MS by SM6200B Prep Method: SM6200B_PREP

Seq Number: 917159 Matrix: Ground Water Date Prep: 06.26.13

Parent Sample Id: 465523-007 MD Sample Id: 465523-007 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.0760	<0.0760	0	20	ug/L	06.26.13 13:19	U
1,1,2,2-Tetrachloroethane	<0.0700	<0.0700	0	20	ug/L	06.26.13 13:19	U
1,1,2-Trichloroethane	<0.113	<0.113	0	20	ug/L	06.26.13 13:19	U
1,1-Dichloroethane	<0.121	<0.121	0	20	ug/L	06.26.13 13:19	U
1,1-Dichloroethene	<0.104	<0.104	0	22	ug/L	06.26.13 13:19	U
1,1-Dichloropropene	<0.0600	<0.0600	0	20	ug/L	06.26.13 13:19	U
1,2,3-Trichlorobenzene	<0.118	<0.118	0	20	ug/L	06.26.13 13:19	U
1,2,3-Trichloropropane	<0.138	<0.138	0	20	ug/L	06.26.13 13:19	U
1,2,4-Trichlorobenzene	<0.0690	<0.0690	0	20	ug/L	06.26.13 13:19	U
1,2,4-Trimethylbenzene	<0.103	<0.103	0	20	ug/L	06.26.13 13:19	U
1,2-Dibromoethane (EDB)	<0.180	<0.180	0	20	ug/L	06.26.13 13:19	U
1,2-Dichlorobenzene	<0.0940	<0.0940	0	20	ug/L	06.26.13 13:19	U
1,2-Dichloroethane	<0.0900	<0.0900	0	20	ug/L	06.26.13 13:19	U
1,2-Dichloropropane	<0.122	<0.122	0	20	ug/L	06.26.13 13:19	U
1,3,5-Trimethylbenzene	<0.0870	<0.0870	0	20	ug/L	06.26.13 13:19	U
1,3-Dichlorobenzene	<0.0980	<0.0980	0	20	ug/L	06.26.13 13:19	U
1,3-Dichloropropane	<0.133	<0.133	0	20	ug/L	06.26.13 13:19	U
1,4-Dichlorobenzene	<0.0670	<0.0670	0	20	ug/L	06.26.13 13:19	U
2,2-Dichloropropane	<0.0970	<0.0970	0	20	ug/L	06.26.13 13:19	U
2-Butanone (MEK)	<0.378	<0.378	0	20	ug/L	06.26.13 13:19	U
2-Chlorotoluene	<0.0880	<0.0880	0	20	ug/L	06.26.13 13:19	U
2-Hexanone	<0.352	<0.352	0	20	ug/L	06.26.13 13:19	U
4-Chlorotoluene	<0.0900	<0.0900	0	20	ug/L	06.26.13 13:19	U
4-Isopropyltoluene	<0.0890	<0.0890	0	20	ug/L	06.26.13 13:19	U
4-Methyl-2-pentanone (MIBK)	<0.253	<0.253	0	20	ug/L	06.26.13 13:19	U
Acetone	<0.352	<0.352	0	21	ug/L	06.26.13 13:19	U
Benzene	<0.119	<0.119	0	20	ug/L	06.26.13 13:19	U
Bromobenzene	<0.132	<0.132	0	20	ug/L	06.26.13 13:19	U
Bromochloromethane	<0.112	<0.112	0	20	ug/L	06.26.13 13:19	U
Bromodichloromethane	<0.124	<0.124	0	20	ug/L	06.26.13 13:19	U
Bromoform	<0.159	<0.159	0	20	ug/L	06.26.13 13:19	U
Bromomethane	<0.0970	<0.0970	0	20	ug/L	06.26.13 13:19	U
Carbon tetrachloride	<0.0990	<0.0990	0	20	ug/L	06.26.13 13:19	U
Chlorobenzene	<0.105	<0.105	0	20	ug/L	06.26.13 13:19	U
Chlorodibromomethane	<0.177	<0.177	0	20	ug/L	06.26.13 13:19	U
Chloroethane	<0.0420	<0.0420	0	20	ug/L	06.26.13 13:19	U
Chloroform	<0.172	<0.172	0	20	ug/L	06.26.13 13:19	U
Chloromethane	<0.0850	<0.0850	0	20	ug/L	06.26.13 13:19	U
cis-1,2-Dichloroethene	<0.114	<0.114	0	20	ug/L	06.26.13 13:19	U
cis-1,3-Dichloropropene	<0.100	<0.100	0	20	ug/L	06.26.13 13:19	U
Dichlorodifluoromethane	<0.0670	<0.0670	0	20	ug/L	06.26.13 13:19	U
Ethanol	<3.00	<3.00	0	20	ug/L	06.26.13 13:19	U
Ethylbenzene	<0.0920	<0.0920	0	20	ug/L	06.26.13 13:19	U
Isopropyl ether	1.38	1.27	8	20	ug/L	06.26.13 13:19	
Isopropylbenzene	<0.0980	<0.0980	0	20	ug/L	06.26.13 13:19	U
Methyl tert-butyl ether (MTBE)	8.81	8.75	1	20	ug/L	06.26.13 13:19	
Methylene Chloride	<0.190	<0.190	0	20	ug/L	06.26.13 13:19	U
Naphthalene	<0.0940	<0.0940	0	20	ug/L	06.26.13 13:19	U
n-Butylbenzene	<0.0600	<0.0600	0	20	ug/L	06.26.13 13:19	U
n-Propylbenzene	<0.0650	<0.0650	0	20	ug/L	06.26.13 13:19	U
sec-Butylbenzene	<0.0920	<0.0920	0	20	ug/L	06.26.13 13:19	U
Styrene	<0.0740	<0.0740	0	20	ug/L	06.26.13 13:19	U

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **VOCs by GC/MS by SM6200B** Prep Method: SM6200B_PREP

Seq Number: 917159 Matrix: Ground Water Date Prep: 06.26.13

Parent Sample Id: 465523-007 MD Sample Id: 465523-007 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
tert-Butylbenzene	<0.0890	<0.0890	0	20	ug/L	06.26.13 13:19	U
Tetrachloroethene (PCE)	<0.0540	<0.0540	0	20	ug/L	06.26.13 13:19	U
Toluene	<0.0570	<0.0570	0	20	ug/L	06.26.13 13:19	U
trans-1,2-Dichloroethene	<0.188	<0.188	0	20	ug/L	06.26.13 13:19	U
trans-1,3-Dichloropropene	<0.110	<0.110	0	20	ug/L	06.26.13 13:19	U
Trichloroethene	<0.139	<0.139	0	20	ug/L	06.26.13 13:19	U
Trichlorofluoromethane	<0.0540	<0.0540	0	20	ug/L	06.26.13 13:19	U
Vinyl Acetate	<0.720	<0.720	0	20	ug/L	06.26.13 13:19	U
Vinyl Chloride	<0.0810	<0.0810	0	20	ug/L	06.26.13 13:19	U
m,p-Xylenes	<0.176	<0.176	0	20	ug/L	06.26.13 13:19	U
o-Xylene	<0.122	<0.122	0	20	ug/L	06.26.13 13:19	U

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **VOCs by GC/MS by SM6200B** Prep Method: SM6200B_PREP
Seq Number: 917159 Matrix: Ground Water Date Prep: 06.26.13
Parent Sample Id: 465523-007 MS Sample Id: 465523-007 S MSD Sample Id: 465523-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.0760	25.0	25.1	100	24.8	99	71-131	1	20	ug/L	06.26.13 18:30	
1,1,2,2-Tetrachloroethane	<0.0700	25.0	23.5	94	23.7	95	65-131	1	20	ug/L	06.26.13 18:30	
1,1,2-Trichloroethane	<0.113	25.0	24.2	97	23.3	93	68-128	4	20	ug/L	06.26.13 18:30	
1,1-Dichloroethane	<0.121	25.0	23.7	95	23.3	93	72-130	2	20	ug/L	06.26.13 18:30	
1,1-Dichloroethene	<0.104	25.0	24.0	96	23.3	93	56-139	3	22	ug/L	06.26.13 18:30	
1,1-Dichloropropene	<0.0600	25.0	24.3	97	24.0	96	77-119	1	20	ug/L	06.26.13 18:30	
1,2,3-Trichlorobenzene	<0.118	25.0	22.9	92	24.5	98	62-131	7	20	ug/L	06.26.13 18:30	
1,2,3-Trichloropropane	<0.138	25.0	23.4	94	23.5	94	60-136	0	20	ug/L	06.26.13 18:30	
1,2,4-Trichlorobenzene	<0.0690	25.0	23.5	94	24.8	99	67-130	5	20	ug/L	06.26.13 18:30	
1,2,4-Trimethylbenzene	<0.103	25.0	24.2	97	24.4	98	70-127	1	20	ug/L	06.26.13 18:30	
1,2-Dibromoethane (EDB)	<0.180	25.0	24.1	96	24.5	98	75-127	2	20	ug/L	06.26.13 18:30	
1,2-Dichlorobenzene	<0.0940	25.0	23.0	92	23.3	93	78-116	1	20	ug/L	06.26.13 18:30	
1,2-Dichloroethane	<0.0900	25.0	24.7	99	24.8	99	55-145	0	20	ug/L	06.26.13 18:30	
1,2-Dichloropropane	<0.122	25.0	24.3	97	24.3	97	75-118	0	20	ug/L	06.26.13 18:30	
1,3,5-Trimethylbenzene	<0.0870	25.0	24.0	96	24.0	96	73-122	0	20	ug/L	06.26.13 18:30	
1,3-Dichlorobenzene	<0.0980	25.0	22.6	90	23.2	93	77-116	3	20	ug/L	06.26.13 18:30	
1,3-Dichloropropane	<0.133	25.0	24.8	99	24.8	99	71-128	0	20	ug/L	06.26.13 18:30	
1,4-Dichlorobenzene	<0.0670	25.0	22.7	91	22.7	91	79-112	0	20	ug/L	06.26.13 18:30	
2,2-Dichloropropane	<0.0970	25.0	24.3	97	22.6	90	62-138	7	20	ug/L	06.26.13 18:30	
2-Butanone (MEK)	<0.378	50.0	47.8	96	47.9	96	34-167	0	20	ug/L	06.26.13 18:30	
2-Chlorotoluene	<0.0880	25.0	23.2	93	23.5	94	71-121	1	20	ug/L	06.26.13 18:30	
2-Hexanone	<0.352	50.0	50.6	101	50.5	101	46-152	0	20	ug/L	06.26.13 18:30	
4-Chlorotoluene	<0.0900	25.0	23.9	96	23.9	96	72-120	0	20	ug/L	06.26.13 18:30	
4-Isopropyltoluene	<0.0890	25.0	24.3	97	24.6	98	75-123	1	20	ug/L	06.26.13 18:30	
4-Methyl-2-pentanone (MIBK)	<0.253	50.0	51.7	103	52.6	105	53-155	2	20	ug/L	06.26.13 18:30	
Acetone	<0.352	50.0	47.1	94	46.3	93	70-130	2	21	ug/L	06.26.13 18:30	
Benzene	<0.119	25.0	23.4	94	23.5	94	64-135	0	20	ug/L	06.26.13 18:30	
Bromobenzene	<0.132	25.0	23.7	95	23.5	94	68-122	1	20	ug/L	06.26.13 18:30	
Bromochloromethane	<0.112	25.0	23.6	94	23.2	93	71-136	2	20	ug/L	06.26.13 18:30	
Bromodichloromethane	<0.124	25.0	25.3	101	25.6	102	71-135	1	20	ug/L	06.26.13 18:30	
Bromoform	<0.159	25.0	24.9	100	25.3	101	75-124	2	20	ug/L	06.26.13 18:30	
Bromomethane	<0.0970	25.0	22.8	91	22.7	91	46-151	0	20	ug/L	06.26.13 18:30	
Carbon tetrachloride	<0.0990	25.0	24.8	99	22.7	91	72-131	9	20	ug/L	06.26.13 18:30	
Chlorobenzene	<0.105	25.0	23.4	94	23.3	93	83-113	0	20	ug/L	06.26.13 18:30	
Chlorodibromomethane	<0.177	25.0	26.1	104	26.4	106	75-135	1	20	ug/L	06.26.13 18:30	
Chloroethane	<0.0420	25.0	22.4	90	22.0	88	42-159	2	20	ug/L	06.26.13 18:30	
Chloroform	<0.172	25.0	23.9	96	23.8	95	72-126	0	20	ug/L	06.26.13 18:30	
Chloromethane	<0.0850	25.0	22.2	89	21.5	86	55-133	3	20	ug/L	06.26.13 18:30	
cis-1,2-Dichloroethene	<0.114	25.0	23.0	92	22.6	90	75-128	2	20	ug/L	06.26.13 18:30	
cis-1,3-Dichloropropene	<0.100	25.0	25.2	101	25.5	102	12-95	1	20	ug/L	06.26.13 18:30	X
Dichlorodifluoromethane	<0.0670	25.0	24.6	98	23.9	96	43-147	3	20	ug/L	06.26.13 18:30	
Ethanol	<3.00	1000	897	90	919	92	42-166	2	20	ug/L	06.26.13 18:30	
Ethylbenzene	<0.0920	25.0	24.3	97	24.5	98	79-120	1	20	ug/L	06.26.13 18:30	
Isopropyl ether	1.38	25.0	25.3	96	25.3	96	59-141	0	20	ug/L	06.26.13 18:30	
Isopropylbenzene	<0.0980	25.0	24.5	98	24.6	98	73-121	0	20	ug/L	06.26.13 18:30	
Methyl tert-butyl ether (MTBE)	8.81	50.0	56.6	96	54.9	92	24-173	3	20	ug/L	06.26.13 18:30	
Methylene Chloride	<0.190	25.0	24.8	99	24.9	100	51-144	0	20	ug/L	06.26.13 18:30	
Naphthalene	<0.0940	25.0	24.1	96	24.9	100	64-136	3	20	ug/L	06.26.13 18:30	
n-Butylbenzene	<0.0600	25.0	24.2	97	24.9	100	70-126	3	20	ug/L	06.26.13 18:30	
n-Propylbenzene	<0.0650	25.0	24.1	96	24.2	97	72-121	0	20	ug/L	06.26.13 18:30	
sec-Butylbenzene	<0.0920	25.0	23.6	94	23.7	95	75-119	0	20	ug/L	06.26.13 18:30	
Styrene	<0.0740	25.0	23.5	94	23.6	94	80-123	0	20	ug/L	06.26.13 18:30	

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **VOCs by GC/MS by SM6200B** Prep Method: SM6200B_PREP

Seq Number: 917159 Matrix: Ground Water Date Prep: 06.26.13

Parent Sample Id: 465523-007 MS Sample Id: 465523-007 S MSD Sample Id: 465523-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
tert-Butylbenzene	<0.0890	25.0	24.3	97	24.2	97	77-124	0	20	ug/L	06.26.13 18:30	
Tetrachloroethene (PCE)	<0.0540	25.0	23.8	95	24.3	97	72-118	2	20	ug/L	06.26.13 18:30	
Toluene	<0.0570	25.0	24.2	97	24.5	98	56-144	1	20	ug/L	06.26.13 18:30	
trans-1,2-Dichloroethene	<0.188	25.0	23.0	92	22.9	92	55-144	0	20	ug/L	06.26.13 18:30	
trans-1,3-Dichloropropene	<0.110	25.0	25.7	103	26.2	105	10-150	2	20	ug/L	06.26.13 18:30	
Trichloroethene	<0.139	25.0	24.2	97	24.0	96	72-116	1	20	ug/L	06.26.13 18:30	
Trichlorofluoromethane	<0.0540	25.0	24.6	98	24.3	97	48-152	1	20	ug/L	06.26.13 18:30	
Vinyl Acetate	<0.720	25.0	23.8	95	24.1	96	70-130	1	20	ug/L	06.26.13 18:30	
Vinyl Chloride	<0.0810	25.0	22.6	90	22.3	89	56-141	1	20	ug/L	06.26.13 18:30	
m,p-Xylenes	<0.176	50.0	46.6	93	47.7	95	80-119	2	20	ug/L	06.26.13 18:30	
o-Xylene	<0.122	25.0	23.4	94	23.5	94	77-125	0	20	ug/L	06.26.13 18:30	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	108		105		53-159	%	06.26.13 18:30
4-Bromofluorobenzene	101		101		30-186	%	06.26.13 18:30
Toluene-D8	101		102		70-130	%	06.26.13 18:30

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5035

Seq Number: 916748 Matrix: Solid Date Prep: 06.20.13

MB Sample Id: 640013-1-BLK LCS Sample Id: 640013-1-BKS LCSD Sample Id: 640013-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.00075	0.050	0.059	118	0.056	112	75-145	5	20	mg/kg	06.20.13 09:05	
1,1,2,2-Tetrachloroethane	<0.0012	0.050	0.049	98	0.044	88	78-120	11	20	mg/kg	06.20.13 09:05	
1,1,2-Trichloroethane	<0.00067	0.050	0.050	100	0.046	92	81-115	8	20	mg/kg	06.20.13 09:05	
1,1-Dichloroethane	<0.00080	0.050	0.052	104	0.054	108	73-131	4	20	mg/kg	06.20.13 09:05	
1,1-Dichloroethene	<0.0012	0.050	0.056	112	0.057	114	67-144	2	20	mg/kg	06.20.13 09:05	
1,1-Dichloropropene	<0.00054	0.050	0.058	116	0.055	110	83-141	5	20	mg/kg	06.20.13 09:05	
1,2,3-Trichlorobenzene	<0.00057	0.050	0.055	110	0.052	104	59-168	6	20	mg/kg	06.20.13 09:05	
1,2,3-Trichloropropane	<0.0016	0.050	0.053	106	0.050	100	73-129	6	20	mg/kg	06.20.13 09:05	
1,2,4-Trichlorobenzene	<0.00087	0.050	0.058	116	0.053	106	61-170	9	20	mg/kg	06.20.13 09:05	
1,2,4-Trimethylbenzene	<0.00072	0.050	0.055	110	0.052	104	73-145	6	20	mg/kg	06.20.13 09:05	
1,2-Dibromoethane (EDB)	<0.00086	0.050	0.056	112	0.047	94	81-121	17	20	mg/kg	06.20.13 09:05	
1,2-Dichlorobenzene	<0.0013	0.050	0.053	106	0.049	98	70-146	8	20	mg/kg	06.20.13 09:05	
1,2-Dichloroethane	<0.00060	0.050	0.055	110	0.052	104	63-150	6	20	mg/kg	06.20.13 09:05	
1,2-Dichloropropane	<0.00093	0.050	0.048	96	0.046	92	76-121	4	20	mg/kg	06.20.13 09:05	
1,3,5-Trimethylbenzene	<0.00081	0.050	0.058	116	0.054	108	69-152	7	20	mg/kg	06.20.13 09:05	
1,3-Dichlorobenzene	<0.0010	0.050	0.056	112	0.052	104	73-145	7	20	mg/kg	06.20.13 09:05	
1,3-Dichloropropane	<0.00069	0.050	0.058	116	0.052	104	82-117	11	20	mg/kg	06.20.13 09:05	
1,4-Dichlorobenzene	<0.00068	0.050	0.058	116	0.051	102	74-143	13	20	mg/kg	06.20.13 09:05	
2,2-Dichloropropane	<0.00060	0.050	0.060	120	0.058	116	67-153	3	20	mg/kg	06.20.13 09:05	
2-Butanone (MEK)	<0.0023	0.10	0.12	120	0.11	110	44-158	9	20	mg/kg	06.20.13 09:05	
2-Chlorotoluene	<0.00071	0.050	0.058	116	0.050	100	74-143	15	20	mg/kg	06.20.13 09:05	
2-Hexanone	<0.0011	0.10	0.10	100	0.11	110	59-154	10	20	mg/kg	06.20.13 09:05	
4-Chlorotoluene	<0.00055	0.050	0.056	112	0.052	104	76-140	7	20	mg/kg	06.20.13 09:05	
4-Isopropyltoluene	<0.00080	0.050	0.058	116	0.057	114	50-173	2	20	mg/kg	06.20.13 09:05	
4-Methyl-2-pentanone (MIBK)	<0.0032	0.10	0.11	110	0.11	110	65-132	0	20	mg/kg	06.20.13 09:05	
Acetone	<0.0069	0.10	0.11	110	0.10	100	43-163	10	20	mg/kg	06.20.13 09:05	
Benzene	<0.00051	0.050	0.053	106	0.049	98	82-121	8	20	mg/kg	06.20.13 09:05	
Bromobenzene	<0.00085	0.050	0.050	100	0.047	94	83-120	6	20	mg/kg	06.20.13 09:05	
Bromochloromethane	<0.0010	0.050	0.053	106	0.055	110	79-126	4	20	mg/kg	06.20.13 09:05	
Bromodichloromethane	<0.00050	0.050	0.056	112	0.052	104	80-135	7	20	mg/kg	06.20.13 09:05	
Bromoform	<0.00096	0.050	0.054	108	0.053	106	71-135	2	20	mg/kg	06.20.13 09:05	
Bromomethane	<0.0025	0.050	0.059	118	0.054	108	51-149	9	20	mg/kg	06.20.13 09:05	
Carbon tetrachloride	<0.00074	0.050	0.056	112	0.055	110	70-156	2	20	mg/kg	06.20.13 09:05	
Chlorobenzene	<0.00058	0.050	0.053	106	0.051	102	76-131	4	20	mg/kg	06.20.13 09:05	
Chlorodibromomethane	<0.00099	0.050	0.057	114	0.054	108	81-136	5	20	mg/kg	06.20.13 09:05	
Chloroethane	<0.0024	0.050	0.048	96	0.050	100	64-131	4	20	mg/kg	06.20.13 09:05	
Chloroform	<0.00074	0.050	0.059	118	0.050	100	78-125	17	20	mg/kg	06.20.13 09:05	
Chloromethane	<0.0023	0.050	0.051	102	0.051	102	59-127	0	20	mg/kg	06.20.13 09:05	
cis-1,2-Dichloroethene	<0.00066	0.050	0.048	96	0.052	104	80-123	8	20	mg/kg	06.20.13 09:05	
cis-1,3-Dichloropropene	<0.00054	0.050	0.059	118	0.053	106	81-123	11	20	mg/kg	06.20.13 09:05	
Dichlorodifluoromethane	<0.0012	0.050	0.046	92	0.052	104	33-161	12	20	mg/kg	06.20.13 09:05	
Ethanol	<0.028	2.0	2.0	100	1.9	95	56-147	5	20	mg/kg	06.20.13 09:05	
Ethylbenzene	<0.00057	0.050	0.059	118	0.054	108	84-129	9	20	mg/kg	06.20.13 09:05	
Isopropyl Ether	<0.0013	0.050	0.056	112	0.057	114	74-125	2	20	mg/kg	06.20.13 09:05	
Isopropylbenzene	<0.00076	0.050	0.054	108	0.051	102	65-153	6	20	mg/kg	06.20.13 09:05	
m,p-Xylenes	<0.00121	0.100	0.113	113	0.104	104	75-141	8	20	mg/kg	06.20.13 09:05	
Methyl tert-butyl ether	<0.00069	0.10	0.11	110	0.11	110	70-131	0	20	mg/kg	06.20.13 09:05	
Methylene chloride	<0.0022	0.050	0.067	134	0.068	136	65-137	1	20	mg/kg	06.20.13 09:05	
Naphthalene	<0.0013	0.050	0.059	118	0.056	112	68-151	5	20	mg/kg	06.20.13 09:05	
n-Butylbenzene	<0.00088	0.050	0.060	120	0.056	112	43-199	7	20	mg/kg	06.20.13 09:05	
n-Propylbenzene	<0.00078	0.050	0.055	110	0.050	100	60-161	10	20	mg/kg	06.20.13 09:05	
o-Xylene	<0.000716	0.0500	0.0584	117	0.0505	101	73-141	15	20	mg/kg	06.20.13 09:05	

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5035
Seq Number: 916748 Matrix: Solid Date Prep: 06.20.13
MB Sample Id: 640013-1-BLK LCS Sample Id: 640013-1-BKS LCSD Sample Id: 640013-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
sec-Butylbenzene	<0.00066	0.050	0.056	112	0.051	102	44-179	9	20	mg/kg	06.20.13 09:05	
Styrene	<0.00074	0.050	0.056	112	0.052	104	82-129	7	20	mg/kg	06.20.13 09:05	
tert-Butylbenzene	<0.00083	0.050	0.056	112	0.052	104	56-163	7	20	mg/kg	06.20.13 09:05	
Tetrachloroethene	<0.0010	0.050	0.055	110	0.049	98	78-144	12	20	mg/kg	06.20.13 09:05	
Toluene	<0.00059	0.050	0.054	108	0.049	98	86-121	10	20	mg/kg	06.20.13 09:05	
trans-1,2-Dichloroethene	<0.00078	0.050	0.055	110	0.050	100	72-132	10	20	mg/kg	06.20.13 09:05	
trans-1,3-Dichloropropene	<0.00067	0.050	0.059	118	0.052	104	82-132	13	20	mg/kg	06.20.13 09:05	
Trichloroethene	<0.00071	0.050	0.053	106	0.055	110	80-126	4	20	mg/kg	06.20.13 09:05	
Trichlorofluoromethane	<0.0035	0.050	0.059	118	0.057	114	55-155	3	20	mg/kg	06.20.13 09:05	
Vinyl acetate	<0.00072	0.050	0.056	112	0.048	96	57-146	15	20	mg/kg	06.20.13 09:05	
Vinyl chloride	<0.0020	0.050	0.051	102	0.043	86	70-130	17	20	mg/kg	06.20.13 09:05	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	98		110		102		50-150	%	06.20.13 09:05
4-Bromofluorobenzene	98		99		92		57-158	%	06.20.13 09:05
Toluene-D8	95		100		92		50-150	%	06.20.13 09:05

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B
Seq Number: 916874 Matrix: Water Date Prep: 06.22.13
MB Sample Id: 640106-1-BLK LCS Sample Id: 640106-1-BKS LCSD Sample Id: 640106-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.160	50.0	59.3	119	64.7	129	65-130	9	20	ug/L	06.22.13 09:24	
1,1,2,2-Tetrachloroethane	<0.180	50.0	46.8	94	41.7	83	65-130	12	20	ug/L	06.22.13 09:24	
1,1,2-Trichloroethane	<0.250	50.0	49.9	100	46.9	94	75-125	6	20	ug/L	06.22.13 09:24	
1,1-Dichloroethane	<0.110	50.0	49.0	98	49.1	98	70-135	0	20	ug/L	06.22.13 09:24	
1,1-Dichloroethene	<0.200	50.0	45.1	90	51.3	103	70-130	13	20	ug/L	06.22.13 09:24	
1,1-Dichloropropene	<0.100	50.0	57.3	115	56.1	112	75-130	2	20	ug/L	06.22.13 09:24	
1,2,3-Trichlorobenzene	<0.250	50.0	67.2	134	64.6	129	55-140	4	20	ug/L	06.22.13 09:24	
1,2,3-Trichloropropane	<0.210	50.0	54.4	109	45.5	91	75-125	18	20	ug/L	06.22.13 09:24	
1,2,4-Trichlorobenzene	<0.170	50.0	62.1	124	56.3	113	65-135	10	20	ug/L	06.22.13 09:24	
1,2,4-Trimethylbenzene	<0.140	50.0	57.7	115	49.9	100	75-130	14	20	ug/L	06.22.13 09:24	
1,2-Dibromoethane (EDB)	<0.180	50.0	56.0	112	50.8	102	80-120	10	20	ug/L	06.22.13 09:24	
1,2-Dichlorobenzene	<0.140	50.0	56.5	113	52.3	105	70-120	8	20	ug/L	06.22.13 09:24	
1,2-Dichloroethane	<0.180	50.0	62.1	124	62.0	124	70-130	0	20	ug/L	06.22.13 09:24	
1,2-Dichloropropane	<0.150	50.0	41.9	84	44.5	89	75-125	6	20	ug/L	06.22.13 09:24	
1,3,5-Trimethylbenzene	<0.170	50.0	58.5	117	51.7	103	75-130	12	20	ug/L	06.22.13 09:24	
1,3-Dichlorobenzene	<0.170	50.0	57.2	114	50.6	101	75-125	12	20	ug/L	06.22.13 09:24	
1,3-Dichloropropane	<0.190	50.0	49.7	99	49.1	98	75-125	1	20	ug/L	06.22.13 09:24	
1,4-Dichlorobenzene	<0.170	50.0	55.8	112	51.6	103	75-125	8	20	ug/L	06.22.13 09:24	
2,2-Dichloropropane	<0.210	50.0	64.6	129	63.2	126	70-130	2	20	ug/L	06.22.13 09:24	
2-Butanone (MEK)	<0.280	100	100	100	94.0	94	30-150	6	20	ug/L	06.22.13 09:24	
2-Chlorotoluene	<0.190	50.0	52.5	105	47.1	94	75-125	11	20	ug/L	06.22.13 09:24	
2-Hexanone	<0.320	100	99.4	99	96.0	96	55-130	3	20	ug/L	06.22.13 09:24	
4-Chlorotoluene	<0.130	50.0	54.3	109	48.7	97	75-130	11	20	ug/L	06.22.13 09:24	
4-Isopropyltoluene	<0.130	50.0	60.6	121	54.3	109	75-130	11	20	ug/L	06.22.13 09:24	
4-Methyl-2-pentanone (MIBK)	<0.260	100	96.3	96	95.5	96	60-135	1	20	ug/L	06.22.13 09:24	
Acetone	<0.350	100	106	106	102	102	40-140	4	20	ug/L	06.22.13 09:24	
Benzene	<0.160	50.0	50.5	101	50.2	100	80-120	1	20	ug/L	06.22.13 09:24	
Bromobenzene	<0.210	50.0	48.8	98	43.6	87	75-125	11	20	ug/L	06.22.13 09:24	
Bromochloromethane	<0.200	50.0	45.9	92	43.6	87	65-130	5	20	ug/L	06.22.13 09:24	
Bromodichloromethane	<0.250	50.0	56.7	113	58.8	118	75-120	4	20	ug/L	06.22.13 09:24	
Bromoform	<0.170	50.0	57.6	115	48.8	98	70-130	17	20	ug/L	06.22.13 09:24	
Bromomethane	<0.250	50.0	55.6	111	52.8	106	30-145	5	20	ug/L	06.22.13 09:24	
Carbon tetrachloride	<0.330	50.0	62.6	125	61.1	122	65-140	2	20	ug/L	06.22.13 09:24	
Chlorobenzene	<0.150	50.0	55.4	111	54.1	108	80-120	2	20	ug/L	06.22.13 09:24	
Chlorodibromomethane	<0.150	50.0	62.6	125	60.2	120	60-135	4	20	ug/L	06.22.13 09:24	
Chloroethane	<0.260	50.0	46.4	93	49.3	99	60-135	6	20	ug/L	06.22.13 09:24	
Chloroform	<0.160	50.0	59.3	119	57.7	115	65-135	3	20	ug/L	06.22.13 09:24	
Chloromethane	<0.250	50.0	48.3	97	48.4	97	40-125	0	20	ug/L	06.22.13 09:24	
cis-1,2-Dichloroethene	<0.210	50.0	53.0	106	45.6	91	70-125	15	20	ug/L	06.22.13 09:24	
cis-1,3-Dichloropropene	<0.100	50.0	52.6	105	51.0	102	70-130	3	20	ug/L	06.22.13 09:24	
Dichlorodifluoromethane	<0.220	50.0	61.2	122	60.7	121	30-155	1	20	ug/L	06.22.13 09:24	
Ethanol	<8.00	2000	1800	90	1800	90	65-135	0	20	ug/L	06.22.13 09:24	
Ethylbenzene	<0.190	50.0	56.5	113	56.5	113	75-125	0	20	ug/L	06.22.13 09:24	
Isopropyl ether	<0.0800	50.0	47.6	95	46.6	93	65-135	2	20	ug/L	06.22.13 09:24	
Isopropylbenzene	<0.150	50.0	54.6	109	50.3	101	75-125	8	20	ug/L	06.22.13 09:24	
m,p-Xylenes	<0.510	100	109	109	107	107	75-130	2	20	ug/L	06.22.13 09:24	
Methyl tert-butyl ether	<0.180	100	119	119	117	117	65-125	2	20	ug/L	06.22.13 09:24	
Methylene chloride	<0.420	50.0	59.8	120	59.8	120	55-140	0	20	ug/L	06.22.13 09:24	
Naphthalene	<0.220	50.0	64.6	129	55.3	111	55-140	16	20	ug/L	06.22.13 09:24	
n-Butylbenzene	<0.170	50.0	56.1	112	50.2	100	70-130	11	20	ug/L	06.22.13 09:24	
n-Propylbenzene	<0.180	50.0	52.2	104	48.6	97	70-130	7	20	ug/L	06.22.13 09:24	
o-Xylene	<0.200	50.0	50.7	101	53.7	107	80-120	6	20	ug/L	06.22.13 09:24	

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services

Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B
Seq Number: 916874 Matrix: Water Date Prep: 06.22.13
MB Sample Id: 640106-1-BLK LCS Sample Id: 640106-1-BKS LCSD Sample Id: 640106-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
sec-Butylbenzene	<0.210	50.0	54.0	108	49.0	98	70-125	10	20	ug/L	06.22.13 09:24	
Styrene	<0.180	50.0	56.6	113	55.0	110	65-135	3	20	ug/L	06.22.13 09:24	
tert-Butylbenzene	<0.180	50.0	58.8	118	54.8	110	70-130	7	20	ug/L	06.22.13 09:24	
Tetrachloroethene	<0.160	50.0	58.8	118	59.6	119	45-150	1	20	ug/L	06.22.13 09:24	
Toluene	<0.140	50.0	51.1	102	52.6	105	75-120	3	20	ug/L	06.22.13 09:24	
trans-1,2-Dichloroethene	<0.210	50.0	54.9	110	49.4	99	60-140	11	20	ug/L	06.22.13 09:24	
trans-1,3-Dichloropropene	<0.110	50.0	59.6	119	55.9	112	55-140	6	20	ug/L	06.22.13 09:24	
Trichloroethene	<0.190	50.0	51.9	104	58.8	118	70-125	12	20	ug/L	06.22.13 09:24	
Trichlorofluoromethane	<0.530	50.0	63.4	127	58.8	118	60-145	8	20	ug/L	06.22.13 09:24	
Vinyl acetate	<0.720	50.0	55.2	110	52.9	106	65-135	4	20	ug/L	06.22.13 09:24	
Vinyl chloride	<0.190	50.0	50.1	100	47.0	94	50-145	6	20	ug/L	06.22.13 09:24	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	116		123		118		53-159	%	06.22.13 09:24
4-Bromofluorobenzene	107		101		93		30-186	%	06.22.13 09:24
Toluene-D8	94		95		98		70-130	%	06.22.13 09:24

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B
Seq Number: 917027 Matrix: Water Date Prep: 06.25.13
MB Sample Id: 640192-1-BLK LCS Sample Id: 640192-1-BKS LCSD Sample Id: 640192-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.160	50.0	54.8	110	53.8	108	65-130	2	20	ug/L	06.25.13 07:29	
1,1,2,2-Tetrachloroethane	<0.180	50.0	44.7	89	44.1	88	65-130	1	20	ug/L	06.25.13 07:29	
1,1,2-Trichloroethane	<0.250	50.0	46.7	93	46.2	92	75-125	1	20	ug/L	06.25.13 07:29	
1,1-Dichloroethane	<0.110	50.0	48.2	96	47.6	95	70-135	1	20	ug/L	06.25.13 07:29	
1,1-Dichloroethene	<0.200	50.0	52.6	105	51.4	103	70-130	2	20	ug/L	06.25.13 07:29	
1,1-Dichloropropene	<0.100	50.0	51.6	103	50.8	102	75-130	2	20	ug/L	06.25.13 07:29	
1,2,3-Trichlorobenzene	<0.250	50.0	52.3	105	51.6	103	55-140	1	20	ug/L	06.25.13 07:29	
1,2,3-Trichloropropane	<0.210	50.0	47.0	94	45.7	91	75-125	3	20	ug/L	06.25.13 07:29	
1,2,4-Trichlorobenzene	<0.170	50.0	52.2	104	51.4	103	65-135	2	20	ug/L	06.25.13 07:29	
1,2,4-Trimethylbenzene	<0.140	50.0	49.7	99	48.4	97	75-130	3	20	ug/L	06.25.13 07:29	
1,2-Dibromoethane (EDB)	<0.180	50.0	51.1	102	48.8	98	80-120	5	20	ug/L	06.25.13 07:29	
1,2-Dichlorobenzene	<0.140	50.0	52.8	106	51.6	103	70-120	2	20	ug/L	06.25.13 07:29	
1,2-Dichloroethane	<0.180	50.0	47.5	95	47.3	95	70-130	0	20	ug/L	06.25.13 07:29	
1,2-Dichloropropane	<0.150	50.0	46.5	93	46.1	92	75-125	1	20	ug/L	06.25.13 07:29	
1,3,5-Trimethylbenzene	<0.170	50.0	49.9	100	48.5	97	75-130	3	20	ug/L	06.25.13 07:29	
1,3-Dichlorobenzene	<0.170	50.0	52.1	104	50.9	102	75-125	2	20	ug/L	06.25.13 07:29	
1,3-Dichloropropane	<0.190	50.0	47.0	94	46.0	92	75-125	2	20	ug/L	06.25.13 07:29	
1,4-Dichlorobenzene	<0.170	50.0	52.6	105	51.0	102	75-125	3	20	ug/L	06.25.13 07:29	
2,2-Dichloropropane	<0.210	50.0	56.8	114	56.0	112	70-130	1	20	ug/L	06.25.13 07:29	
2-Butanone (MEK)	<0.280	100	81.6	82	81.5	82	30-150	0	20	ug/L	06.25.13 07:29	
2-Chlorotoluene	<0.190	50.0	48.4	97	47.2	94	75-125	3	20	ug/L	06.25.13 07:29	
2-Hexanone	<0.320	100	84.6	85	82.2	82	55-130	3	20	ug/L	06.25.13 07:29	
4-Chlorotoluene	<0.130	50.0	52.2	104	50.8	102	75-130	3	20	ug/L	06.25.13 07:29	
4-Isopropyltoluene	<0.130	50.0	48.8	98	47.8	96	75-130	2	20	ug/L	06.25.13 07:29	
4-Methyl-2-pentanone (MIBK)	<0.260	100	87.9	88	87.3	87	60-135	1	20	ug/L	06.25.13 07:29	
Acetone	<0.350	100	72.0	72	75.7	76	40-140	5	20	ug/L	06.25.13 07:29	
Benzene	<0.160	50.0	47.7	95	47.6	95	80-120	0	20	ug/L	06.25.13 07:29	
Bromobenzene	<0.210	50.0	48.0	96	46.8	94	75-125	3	20	ug/L	06.25.13 07:29	
Bromochloromethane	<0.200	50.0	53.1	106	51.8	104	65-130	2	20	ug/L	06.25.13 07:29	
Bromodichloromethane	<0.250	50.0	49.2	98	49.2	98	75-120	0	20	ug/L	06.25.13 07:29	
Bromoform	<0.170	50.0	51.3	103	50.4	101	70-130	2	20	ug/L	06.25.13 07:29	
Bromomethane	<0.250	50.0	51.2	102	53.2	106	30-145	4	20	ug/L	06.25.13 07:29	
Carbon tetrachloride	<0.330	50.0	56.4	113	55.1	110	65-140	2	20	ug/L	06.25.13 07:29	
Chlorobenzene	<0.150	50.0	53.8	108	52.3	105	80-120	3	20	ug/L	06.25.13 07:29	
Chlorodibromomethane	<0.150	50.0	51.4	103	50.4	101	60-135	2	20	ug/L	06.25.13 07:29	
Chloroethane	<0.260	50.0	44.3	89	48.4	97	60-135	9	20	ug/L	06.25.13 07:29	
Chloroform	<0.160	50.0	49.5	99	49.4	99	65-135	0	20	ug/L	06.25.13 07:29	
Chloromethane	<0.250	50.0	45.4	91	45.1	90	40-125	1	20	ug/L	06.25.13 07:29	
cis-1,2-Dichloroethene	<0.210	50.0	51.3	103	50.6	101	70-125	1	20	ug/L	06.25.13 07:29	
cis-1,3-Dichloropropene	<0.100	50.0	50.2	100	50.1	100	70-130	0	20	ug/L	06.25.13 07:29	
Dichlorodifluoromethane	<0.220	50.0	68.9	138	69.0	138	30-155	0	20	ug/L	06.25.13 07:29	
Ethanol	<8.00	2000	1650	83	1660	83	65-135	1	20	ug/L	06.25.13 07:29	
Ethylbenzene	<0.190	50.0	50.7	101	48.7	97	75-125	4	20	ug/L	06.25.13 07:29	
Isopropyl ether	<0.0800	50.0	46.6	93	45.8	92	65-135	2	20	ug/L	06.25.13 07:29	
Isopropylbenzene	<0.150	50.0	48.6	97	47.7	95	75-125	2	20	ug/L	06.25.13 07:29	
m,p-Xylenes	<0.510	100	106	106	103	103	75-130	3	20	ug/L	06.25.13 07:29	
Methyl tert-butyl ether	<0.180	100	97.6	98	97.0	97	65-125	1	20	ug/L	06.25.13 07:29	
Methylene chloride	<0.420	50.0	49.9	100	50.4	101	55-140	1	20	ug/L	06.25.13 07:29	
Naphthalene	<0.220	50.0	50.9	102	50.2	100	55-140	1	20	ug/L	06.25.13 07:29	
n-Butylbenzene	<0.170	50.0	48.0	96	46.9	94	70-130	2	20	ug/L	06.25.13 07:29	
n-Propylbenzene	<0.180	50.0	46.8	94	45.5	91	70-130	3	20	ug/L	06.25.13 07:29	
o-Xylene	<0.200	50.0	54.6	109	53.1	106	80-120	3	20	ug/L	06.25.13 07:29	

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services

Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B
Seq Number: 917027 Matrix: Water Date Prep: 06.25.13
MB Sample Id: 640192-1-BLK LCS Sample Id: 640192-1-BKS LCSD Sample Id: 640192-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
sec-Butylbenzene	<0.210	50.0	48.3	97	46.7	93	70-125	3	20	ug/L	06.25.13 07:29	
Styrene	<0.180	50.0	54.5	109	53.3	107	65-135	2	20	ug/L	06.25.13 07:29	
tert-Butylbenzene	<0.180	50.0	48.4	97	47.0	94	70-130	3	20	ug/L	06.25.13 07:29	
Tetrachloroethene	<0.160	50.0	55.1	110	53.3	107	45-150	3	20	ug/L	06.25.13 07:29	
Toluene	<0.140	50.0	49.4	99	47.9	96	75-120	3	20	ug/L	06.25.13 07:29	
trans-1,2-Dichloroethene	<0.210	50.0	52.1	104	51.1	102	60-140	2	20	ug/L	06.25.13 07:29	
trans-1,3-Dichloropropene	<0.110	50.0	47.5	95	46.1	92	55-140	3	20	ug/L	06.25.13 07:29	
Trichloroethene	<0.190	50.0	52.8	106	51.5	103	70-125	2	20	ug/L	06.25.13 07:29	
Trichlorofluoromethane	<0.530	50.0	58.9	118	58.6	117	60-145	1	20	ug/L	06.25.13 07:29	
Vinyl acetate	<0.720	50.0	45.1	90	44.5	89	65-135	1	20	ug/L	06.25.13 07:29	
Vinyl chloride	<0.190	50.0	47.9	96	48.5	97	50-145	1	20	ug/L	06.25.13 07:29	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	94		94		94		53-159	%	06.25.13 07:29
4-Bromofluorobenzene	96		94		94		30-186	%	06.25.13 07:29
Toluene-D8	100		96		96		70-130	%	06.25.13 07:29

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5035
Seq Number: 916748 Matrix: Soil Date Prep: 06.20.13
Parent Sample Id: 465133-006 MS Sample Id: 465133-006 S MSD Sample Id: 465133-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.00095	0.063	0.068	108	0.068	108	62-137	0	20	mg/kg	06.20.13 15:49	
1,1,2,2-Tetrachloroethane	<0.0015	0.063	0.059	94	0.053	84	64-128	11	20	mg/kg	06.20.13 15:49	
1,1,2-Trichloroethane	<0.00085	0.063	0.057	90	0.055	87	61-130	4	20	mg/kg	06.20.13 15:49	
1,1-Dichloroethane	<0.0010	0.063	0.064	102	0.059	94	65-136	8	20	mg/kg	06.20.13 15:49	
1,1-Dichloroethene	<0.0015	0.063	0.058	92	0.065	103	33-158	11	20	mg/kg	06.20.13 15:49	
1,1-Dichloropropene	<0.00068	0.063	0.068	108	0.069	110	42-152	1	20	mg/kg	06.20.13 15:49	
1,2,3-Trichlorobenzene	<0.00072	0.063	0.063	100	0.058	92	48-135	8	20	mg/kg	06.20.13 15:49	
1,2,3-Trichloropropane	<0.0021	0.063	0.065	103	0.055	87	58-134	17	20	mg/kg	06.20.13 15:49	
1,2,4-Trichlorobenzene	<0.0011	0.063	0.065	103	0.059	94	43-139	10	20	mg/kg	06.20.13 15:49	
1,2,4-Trimethylbenzene	<0.00091	0.063	0.067	106	0.062	98	66-134	8	20	mg/kg	06.20.13 15:49	
1,2-Dibromoethane (EDB)	<0.0011	0.063	0.065	103	0.061	97	69-132	6	20	mg/kg	06.20.13 15:49	
1,2-Dichlorobenzene	<0.0016	0.063	0.065	103	0.059	94	71-120	10	20	mg/kg	06.20.13 15:49	
1,2-Dichloroethane	<0.00075	0.063	0.063	100	0.068	108	53-140	8	20	mg/kg	06.20.13 15:49	
1,2-Dichloropropane	<0.0012	0.063	0.054	86	0.049	78	68-126	10	20	mg/kg	06.20.13 15:49	
1,3,5-Trimethylbenzene	<0.0010	0.063	0.070	111	0.065	103	67-134	7	20	mg/kg	06.20.13 15:49	
1,3-Dichlorobenzene	<0.0013	0.063	0.069	110	0.060	95	68-127	14	20	mg/kg	06.20.13 15:49	
1,3-Dichloropropane	<0.00087	0.063	0.061	97	0.056	89	70-129	9	20	mg/kg	06.20.13 15:49	
1,4-Dichlorobenzene	<0.00086	0.063	0.071	113	0.063	100	72-118	12	20	mg/kg	06.20.13 15:49	
2,2-Dichloropropane	<0.00076	0.063	0.079	125	0.072	114	68-151	9	20	mg/kg	06.20.13 15:49	
2-Butanone (MEK)	<0.0029	0.13	0.14	108	0.12	92	42-147	15	20	mg/kg	06.20.13 15:49	
2-Chlorotoluene	<0.00089	0.063	0.069	110	0.062	98	68-127	11	20	mg/kg	06.20.13 15:49	
2-Hexanone	<0.0014	0.13	0.12	92	0.14	108	32-142	15	20	mg/kg	06.20.13 15:49	
4-Chlorotoluene	<0.00070	0.063	0.069	110	0.062	98	68-127	11	20	mg/kg	06.20.13 15:49	
4-Isopropyltoluene	<0.0010	0.063	0.075	119	0.070	111	64-135	7	20	mg/kg	06.20.13 15:49	
4-Methyl-2-pentanone (MIBK)	<0.0041	0.13	0.13	100	0.13	100	34-149	0	20	mg/kg	06.20.13 15:49	
Acetone	<0.0087	0.13	0.10	77	0.099	76	43-163	1	20	mg/kg	06.20.13 15:49	
Benzene	<0.00065	0.063	0.056	89	0.058	92	65-135	4	20	mg/kg	06.20.13 15:49	
Bromobenzene	<0.0011	0.063	0.060	95	0.056	89	67-121	7	20	mg/kg	06.20.13 15:49	
Bromochloromethane	<0.0013	0.063	0.072	114	0.061	97	66-137	17	20	mg/kg	06.20.13 15:49	
Bromodichloromethane	<0.00063	0.063	0.062	98	0.061	97	60-129	2	20	mg/kg	06.20.13 15:49	
Bromoform	<0.0012	0.063	0.069	110	0.061	97	48-147	12	20	mg/kg	06.20.13 15:49	
Bromomethane	<0.0031	0.063	0.062	98	0.059	94	42-170	5	20	mg/kg	06.20.13 15:49	
Carbon tetrachloride	<0.00094	0.063	0.072	114	0.061	97	54-148	17	20	mg/kg	06.20.13 15:49	
Chlorobenzene	<0.00073	0.063	0.065	103	0.061	97	71-117	6	20	mg/kg	06.20.13 15:49	
Chlorodibromomethane	<0.0013	0.063	0.064	102	0.063	100	59-135	2	20	mg/kg	06.20.13 15:49	
Chloroethane	<0.0031	0.063	0.064	102	0.057	90	44-166	12	20	mg/kg	06.20.13 15:49	
Chloroform	0.0020	0.063	0.059	90	0.063	97	62-127	7	20	mg/kg	06.20.13 15:49	
Chloromethane	<0.0029	0.063	0.055	87	0.049	78	34-157	12	20	mg/kg	06.20.13 15:49	
cis-1,2-Dichloroethene	<0.00084	0.063	0.053	84	0.052	83	41-155	2	20	mg/kg	06.20.13 15:49	
cis-1,3-Dichloropropene	<0.00068	0.063	0.064	102	0.060	95	63-128	6	20	mg/kg	06.20.13 15:49	
Dichlorodifluoromethane	<0.0015	0.063	0.072	114	0.060	95	16-171	18	20	mg/kg	06.20.13 15:49	
Ethanol	<0.035	2.5	2.2	88	2.1	84	23-148	5	20	mg/kg	06.20.13 15:49	
Ethylbenzene	<0.00071	0.063	0.068	108	0.067	106	65-139	1	20	mg/kg	06.20.13 15:49	
Isopropyl Ether	<0.0016	0.063	0.068	108	0.060	95	57-138	13	20	mg/kg	06.20.13 15:49	
Isopropylbenzene	<0.00096	0.063	0.068	108	0.061	97	62-133	11	20	mg/kg	06.20.13 15:49	
m,p-Xylenes	<0.00153	0.126	0.130	103	0.131	104	69-130	1	20	mg/kg	06.20.13 15:49	
Methyl tert-butyl ether	<0.00087	0.13	0.13	100	0.12	92	48-169	8	20	mg/kg	06.20.13 15:49	
Methylene chloride	0.025	0.063	0.089	102	0.083	92	17-184	7	20	mg/kg	06.20.13 15:49	
Naphthalene	0.0020	0.063	0.055	84	0.060	92	27-157	9	20	mg/kg	06.20.13 15:49	
n-Butylbenzene	<0.0011	0.063	0.075	119	0.069	110	59-136	8	20	mg/kg	06.20.13 15:49	
n-Propylbenzene	<0.00099	0.063	0.065	103	0.061	97	67-134	6	20	mg/kg	06.20.13 15:49	
o-Xylene	<0.000904	0.0631	0.0609	97	0.0637	101	71-124	4	20	mg/kg	06.20.13 15:49	

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5035

Seq Number: 916748 Matrix: Soil Date Prep: 06.20.13

Parent Sample Id: 465133-006 MS Sample Id: 465133-006 S MSD Sample Id: 465133-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
sec-Butylbenzene	<0.00083	0.063	0.068	108	0.063	100	65-131	8	20	mg/kg	06.20.13 15:49	
Styrene	<0.00094	0.063	0.065	103	0.063	100	50-143	3	20	mg/kg	06.20.13 15:49	
tert-Butylbenzene	<0.0011	0.063	0.067	106	0.063	100	67-131	6	20	mg/kg	06.20.13 15:49	
Tetrachloroethene	<0.0013	0.063	0.066	105	0.066	105	42-156	0	20	mg/kg	06.20.13 15:49	
Toluene	<0.00074	0.063	0.060	95	0.058	92	65-128	3	20	mg/kg	06.20.13 15:49	
trans-1,2-Dichloroethene	<0.00098	0.063	0.067	106	0.059	94	57-143	13	20	mg/kg	06.20.13 15:49	
trans-1,3-Dichloropropene	<0.00085	0.063	0.066	105	0.063	100	55-141	5	20	mg/kg	06.20.13 15:49	
Trichloroethene	<0.00089	0.063	0.057	90	0.056	89	39-150	2	20	mg/kg	06.20.13 15:49	
Trichlorofluoromethane	<0.0044	0.063	0.064	102	0.064	102	34-179	0	20	mg/kg	06.20.13 15:49	
Vinyl acetate	<0.00091	0.063	0.028	44	0.024	38	13-188	15	20	mg/kg	06.20.13 15:49	X
Vinyl chloride	<0.0025	0.063	0.060	95	0.049	78	40-161	20	20	mg/kg	06.20.13 15:49	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	105		113		50-150	%	06.20.13 15:49
4-Bromofluorobenzene	99		96		57-158	%	06.20.13 15:49
Toluene-D8	96		96		50-150	%	06.20.13 15:49

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B
Seq Number: 916874 Matrix: Ground Water Date Prep: 06.22.13
Parent Sample Id: 465177-007 MS Sample Id: 465177-007 S MSD Sample Id: 465177-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.160	50.0	63.6	127	58.1	116	59-138	9	20	ug/L	06.22.13 19:19	
1,1,2,2-Tetrachloroethane	<0.180	50.0	43.9	88	39.8	80	63-126	10	20	ug/L	06.22.13 19:19	
1,1,2-Trichloroethane	<0.250	50.0	46.7	93	41.0	82	72-115	13	20	ug/L	06.22.13 19:19	
1,1-Dichloroethane	<0.110	50.0	47.9	96	46.4	93	69-132	3	20	ug/L	06.22.13 19:19	
1,1-Dichloroethene	<0.200	50.0	44.1	88	44.8	90	62-131	2	20	ug/L	06.22.13 19:19	
1,1-Dichloropropene	<0.100	50.0	52.7	105	44.7	89	74-123	16	20	ug/L	06.22.13 19:19	
1,2,3-Trichlorobenzene	<0.250	50.0	57.8	116	60.4	121	48-122	4	20	ug/L	06.22.13 19:19	
1,2,3-Trichloropropane	<0.210	50.0	48.7	97	47.9	96	59-119	2	20	ug/L	06.22.13 19:19	
1,2,4-Trichlorobenzene	<0.170	50.0	55.5	111	55.9	112	34-131	1	20	ug/L	06.22.13 19:19	
1,2,4-Trimethylbenzene	<0.140	50.0	50.7	101	48.5	97	47-139	4	20	ug/L	06.22.13 19:19	
1,2-Dibromoethane (EDB)	<0.180	50.0	55.9	112	50.9	102	66-125	9	20	ug/L	06.22.13 19:19	
1,2-Dichlorobenzene	<0.140	50.0	52.5	105	51.1	102	58-124	3	20	ug/L	06.22.13 19:19	
1,2-Dichloroethane	<0.180	50.0	66.9	134	60.1	120	55-141	11	20	ug/L	06.22.13 19:19	
1,2-Dichloropropane	<0.150	50.0	42.9	86	40.2	80	78-121	6	20	ug/L	06.22.13 19:19	
1,3,5-Trimethylbenzene	<0.170	50.0	51.1	102	49.1	98	53-129	4	20	ug/L	06.22.13 19:19	
1,3-Dichlorobenzene	<0.170	50.0	51.4	103	47.2	94	62-120	9	20	ug/L	06.22.13 19:19	
1,3-Dichloropropane	<0.190	50.0	49.6	99	47.4	95	66-123	5	20	ug/L	06.22.13 19:19	
1,4-Dichlorobenzene	<0.170	50.0	52.2	104	48.5	97	64-114	7	20	ug/L	06.22.13 19:19	
2,2-Dichloropropane	<0.210	50.0	58.7	117	54.1	108	40-159	8	20	ug/L	06.22.13 19:19	
2-Butanone (MEK)	<0.280	100	89.8	90	92.2	92	50-152	3	20	ug/L	06.22.13 19:19	
2-Chlorotoluene	<0.190	50.0	48.6	97	44.2	88	60-129	9	20	ug/L	06.22.13 19:19	
2-Hexanone	<0.320	100	102	102	98.7	99	55-136	3	20	ug/L	06.22.13 19:19	
4-Chlorotoluene	<0.130	50.0	48.6	97	44.4	89	64-124	9	20	ug/L	06.22.13 19:19	
4-Isopropyltoluene	<0.130	50.0	53.2	106	47.8	96	62-121	11	20	ug/L	06.22.13 19:19	
4-Methyl-2-pentanone (MIBK)	<0.260	100	101	101	93.5	94	65-132	8	20	ug/L	06.22.13 19:19	
Acetone	<0.350	100	82.7	83	85.7	86	40-140	4	20	ug/L	06.22.13 19:19	
Benzene	<0.160	50.0	47.5	95	41.9	84	77-118	13	20	ug/L	06.22.13 19:19	
Bromobenzene	<0.210	50.0	44.4	89	42.1	84	66-121	5	20	ug/L	06.22.13 19:19	
Bromochloromethane	<0.200	50.0	52.6	105	55.9	112	64-130	6	20	ug/L	06.22.13 19:19	
Bromodichloromethane	<0.250	50.0	56.6	113	52.8	106	68-125	7	20	ug/L	06.22.13 19:19	
Bromoform	<0.170	50.0	51.8	104	53.5	107	53-112	3	20	ug/L	06.22.13 19:19	
Bromomethane	<0.250	50.0	55.6	111	47.8	96	63-137	15	20	ug/L	06.22.13 19:19	
Carbon tetrachloride	<0.330	50.0	62.7	125	62.4	125	56-138	0	20	ug/L	06.22.13 19:19	
Chlorobenzene	<0.150	50.0	56.4	113	49.7	99	71-114	13	20	ug/L	06.22.13 19:19	
Chlorodibromomethane	<0.150	50.0	60.9	122	56.8	114	53-125	7	20	ug/L	06.22.13 19:19	
Chloroethane	<0.260	50.0	48.1	96	42.9	86	60-137	11	20	ug/L	06.22.13 19:19	
Chloroform	<0.160	50.0	59.7	119	49.4	99	65-131	19	20	ug/L	06.22.13 19:19	
Chloromethane	<0.250	50.0	42.9	86	41.7	83	48-151	3	20	ug/L	06.22.13 19:19	
cis-1,2-Dichloroethene	<0.210	50.0	47.7	95	48.5	97	22-185	2	20	ug/L	06.22.13 19:19	
cis-1,3-Dichloropropene	<0.100	50.0	49.6	99	45.0	90	67-113	10	20	ug/L	06.22.13 19:19	
Dichlorodifluoromethane	<0.220	50.0	62.5	125	59.5	119	38-145	5	20	ug/L	06.22.13 19:19	
Ethanol	<8.00	2000	2060	103	2110	106	38-162	2	20	ug/L	06.22.13 19:19	
Ethylbenzene	<0.190	50.0	54.6	109	50.5	101	66-127	8	20	ug/L	06.22.13 19:19	
Isopropyl ether	<0.0800	50.0	46.9	94	44.4	89	59-148	5	20	ug/L	06.22.13 19:19	
Isopropylbenzene	<0.150	50.0	50.4	101	45.8	92	58-127	10	20	ug/L	06.22.13 19:19	
m,p-Xylenes	<0.510	100	106	106	94.3	94	65-126	12	20	ug/L	06.22.13 19:19	
Methyl tert-butyl ether	<0.180	100	119	119	121	121	58-141	2	20	ug/L	06.22.13 19:19	
Methylene chloride	<0.420	50.0	54.0	108	50.3	101	63-150	7	20	ug/L	06.22.13 19:19	
Naphthalene	<0.220	50.0	53.0	106	56.2	112	30-148	6	20	ug/L	06.22.13 19:19	
n-Butylbenzene	<0.170	50.0	46.9	94	43.6	87	63-122	7	20	ug/L	06.22.13 19:19	
n-Propylbenzene	<0.180	50.0	47.3	95	44.7	89	64-127	6	20	ug/L	06.22.13 19:19	
o-Xylene	<0.200	50.0	49.9	100	48.7	97	64-123	2	20	ug/L	06.22.13 19:19	

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B
Seq Number: 916874 Matrix: Ground Water Date Prep: 06.22.13
Parent Sample Id: 465177-007 MS Sample Id: 465177-007 S MSD Sample Id: 465177-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
sec-Butylbenzene	<0.210	50.0	48.3	97	45.3	91	59-124	6	20	ug/L	06.22.13 19:19	
Styrene	<0.180	50.0	54.1	108	48.5	97	50-133	11	20	ug/L	06.22.13 19:19	
tert-Butylbenzene	<0.180	50.0	52.0	104	50.3	101	58-125	3	20	ug/L	06.22.13 19:19	
Tetrachloroethene	<0.160	50.0	61.6	123	50.3	101	52-125	20	20	ug/L	06.22.13 19:19	
Toluene	<0.140	50.0	50.5	101	46.8	94	65-123	8	20	ug/L	06.22.13 19:19	
trans-1,2-Dichloroethene	<0.210	50.0	54.4	109	51.9	104	65-135	5	20	ug/L	06.22.13 19:19	
trans-1,3-Dichloropropene	<0.110	50.0	54.3	109	52.3	105	50-125	4	20	ug/L	06.22.13 19:19	
Trichloroethene	<0.190	50.0	45.6	91	41.2	82	65-125	10	20	ug/L	06.22.13 19:19	
Trichlorofluoromethane	<0.530	50.0	62.6	125	63.3	127	51-145	1	20	ug/L	06.22.13 19:19	
Vinyl acetate	<0.720	50.0	39.5	79	41.1	82	49-135	4	20	ug/L	06.22.13 19:19	
Vinyl chloride	<0.190	50.0	48.2	96	44.2	88	52-140	9	20	ug/L	06.22.13 19:19	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	127		116		53-159	%	06.22.13 19:19
4-Bromofluorobenzene	93		93		30-186	%	06.22.13 19:19
Toluene-D8	96		95		70-130	%	06.22.13 19:19

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B
Seq Number: 917027 Matrix: Water Date Prep: 06.25.13
Parent Sample Id: 465355-001 MS Sample Id: 465355-001 S MSD Sample Id: 465355-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.160	50.0	54.6	109	52.9	106	59-138	3	20	ug/L	06.25.13 14:39	
1,1,2,2-Tetrachloroethane	<0.180	50.0	44.7	89	45.3	91	63-126	1	20	ug/L	06.25.13 14:39	
1,1,2-Trichloroethane	<0.250	50.0	46.7	93	46.1	92	72-115	1	20	ug/L	06.25.13 14:39	
1,1-Dichloroethane	<0.110	50.0	48.4	97	46.4	93	69-132	4	20	ug/L	06.25.13 14:39	
1,1-Dichloroethene	<0.200	50.0	52.3	105	49.3	99	62-131	6	20	ug/L	06.25.13 14:39	
1,1-Dichloropropene	<0.100	50.0	51.1	102	48.3	97	74-123	6	20	ug/L	06.25.13 14:39	
1,2,3-Trichlorobenzene	<0.250	50.0	46.7	93	49.1	98	48-122	5	20	ug/L	06.25.13 14:39	
1,2,3-Trichloropropane	<0.210	50.0	47.1	94	44.3	89	59-119	6	20	ug/L	06.25.13 14:39	
1,2,4-Trichlorobenzene	<0.170	50.0	47.5	95	49.4	99	34-131	4	20	ug/L	06.25.13 14:39	
1,2,4-Trimethylbenzene	<0.140	50.0	42.0	84	40.6	81	47-139	3	20	ug/L	06.25.13 14:39	
1,2-Dibromoethane (EDB)	<0.180	50.0	50.6	101	50.4	101	66-125	0	20	ug/L	06.25.13 14:39	
1,2-Dichlorobenzene	<0.140	50.0	51.6	103	51.5	103	58-124	0	20	ug/L	06.25.13 14:39	
1,2-Dichloroethane	<0.180	50.0	47.4	95	47.4	95	55-141	0	20	ug/L	06.25.13 14:39	
1,2-Dichloropropane	<0.150	50.0	46.8	94	46.1	92	78-121	2	20	ug/L	06.25.13 14:39	
1,3,5-Trimethylbenzene	<0.170	50.0	42.2	84	40.7	81	53-129	4	20	ug/L	06.25.13 14:39	
1,3-Dichlorobenzene	<0.170	50.0	50.9	102	49.7	99	62-120	2	20	ug/L	06.25.13 14:39	
1,3-Dichloropropane	<0.190	50.0	47.1	94	46.7	93	66-123	1	20	ug/L	06.25.13 14:39	
1,4-Dichlorobenzene	<0.170	50.0	50.8	102	50.5	101	64-114	1	20	ug/L	06.25.13 14:39	
2,2-Dichloropropane	<0.210	50.0	56.1	112	53.9	108	40-159	4	20	ug/L	06.25.13 14:39	
2-Butanone (MEK)	<0.280	100	88.5	89	85.6	86	50-152	3	20	ug/L	06.25.13 14:39	
2-Chlorotoluene	<0.190	50.0	47.6	95	46.8	94	60-129	2	20	ug/L	06.25.13 14:39	
2-Hexanone	<0.320	100	83.8	84	85.1	85	55-136	2	20	ug/L	06.25.13 14:39	
4-Chlorotoluene	<0.130	50.0	50.5	101	49.9	100	64-124	1	20	ug/L	06.25.13 14:39	
4-Isopropyltoluene	<0.130	50.0	44.9	90	44.7	89	62-121	0	20	ug/L	06.25.13 14:39	
4-Methyl-2-pentanone (MIBK)	<0.260	100	88.9	89	89.1	89	65-132	0	20	ug/L	06.25.13 14:39	
Acetone	<0.350	100	78.8	79	82.7	83	40-140	5	20	ug/L	06.25.13 14:39	
Benzene	<0.160	50.0	48.3	97	46.4	93	77-118	4	20	ug/L	06.25.13 14:39	
Bromobenzene	<0.210	50.0	47.6	95	46.9	94	66-121	1	20	ug/L	06.25.13 14:39	
Bromochloromethane	<0.200	50.0	53.4	107	51.7	103	64-130	3	20	ug/L	06.25.13 14:39	
Bromodichloromethane	<0.250	50.0	48.3	97	48.2	96	68-125	0	20	ug/L	06.25.13 14:39	
Bromoform	<0.170	50.0	47.6	95	48.1	96	53-112	1	20	ug/L	06.25.13 14:39	
Bromomethane	<0.250	50.0	53.4	107	50.2	100	63-137	6	20	ug/L	06.25.13 14:39	
Carbon tetrachloride	<0.330	50.0	54.5	109	51.0	102	56-138	7	20	ug/L	06.25.13 14:39	
Chlorobenzene	<0.150	50.0	53.6	107	52.1	104	71-114	3	20	ug/L	06.25.13 14:39	
Chlorodibromomethane	<0.150	50.0	49.3	99	49.1	98	53-125	0	20	ug/L	06.25.13 14:39	
Chloroethane	<0.260	50.0	48.2	96	43.7	87	60-137	10	20	ug/L	06.25.13 14:39	
Chloroform	<0.160	50.0	51.5	103	50.0	100	65-131	3	20	ug/L	06.25.13 14:39	
Chloromethane	<0.250	50.0	49.2	98	44.4	89	48-151	10	20	ug/L	06.25.13 14:39	
cis-1,2-Dichloroethene	<0.210	50.0	52.2	104	49.8	100	22-185	5	20	ug/L	06.25.13 14:39	
cis-1,3-Dichloropropene	<0.100	50.0	48.2	96	46.5	93	67-113	4	20	ug/L	06.25.13 14:39	
Dichlorodifluoromethane	<0.220	50.0	67.0	134	63.0	126	38-145	6	20	ug/L	06.25.13 14:39	
Ethanol	<8.00	2000	1730	87	1680	84	38-162	3	20	ug/L	06.25.13 14:39	
Ethylbenzene	<0.190	50.0	48.9	98	47.4	95	66-127	3	20	ug/L	06.25.13 14:39	
Isopropyl ether	<0.0800	50.0	47.3	95	45.9	92	59-148	3	20	ug/L	06.25.13 14:39	
Isopropylbenzene	<0.150	50.0	47.3	95	46.2	92	58-127	2	20	ug/L	06.25.13 14:39	
m,p-Xylenes	<0.510	100	99.1	99	96.7	97	65-126	2	20	ug/L	06.25.13 14:39	
Methyl tert-butyl ether	<0.180	100	99.5	100	98.8	99	58-141	1	20	ug/L	06.25.13 14:39	
Methylene chloride	<0.420	50.0	48.2	96	47.2	94	63-150	2	20	ug/L	06.25.13 14:39	
Naphthalene	<0.220	50.0	46.4	93	49.2	98	30-148	6	20	ug/L	06.25.13 14:39	
n-Butylbenzene	<0.170	50.0	44.3	89	44.2	88	63-122	0	20	ug/L	06.25.13 14:39	
n-Propylbenzene	<0.180	50.0	44.9	90	44.0	88	64-127	2	20	ug/L	06.25.13 14:39	
o-Xylene	<0.200	50.0	51.4	103	49.6	99	64-123	4	20	ug/L	06.25.13 14:39	

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B
Seq Number: 917027 Matrix: Water Date Prep: 06.25.13
Parent Sample Id: 465355-001 MS Sample Id: 465355-001 S MSD Sample Id: 465355-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
sec-Butylbenzene	<0.210	50.0	45.2	90	45.1	90	59-124	0	20	ug/L	06.25.13 14:39	
Styrene	<0.180	50.0	41.9	84	39.7	79	50-133	5	20	ug/L	06.25.13 14:39	
tert-Butylbenzene	<0.180	50.0	46.5	93	46.0	92	58-125	1	20	ug/L	06.25.13 14:39	
Tetrachloroethene	<0.160	50.0	54.1	108	52.3	105	52-125	3	20	ug/L	06.25.13 14:39	
Toluene	<0.140	50.0	48.2	96	46.7	93	65-123	3	20	ug/L	06.25.13 14:39	
trans-1,2-Dichloroethene	<0.210	50.0	52.1	104	49.9	100	65-135	4	20	ug/L	06.25.13 14:39	
trans-1,3-Dichloropropene	<0.110	50.0	44.3	89	43.3	87	50-125	2	20	ug/L	06.25.13 14:39	
Trichloroethene	<0.190	50.0	52.1	104	50.5	101	65-125	3	20	ug/L	06.25.13 14:39	
Trichlorofluoromethane	<0.530	50.0	59.1	118	57.1	114	51-145	3	20	ug/L	06.25.13 14:39	
Vinyl acetate	<0.720	50.0	41.0	82	40.7	81	49-135	1	20	ug/L	06.25.13 14:39	
Vinyl chloride	<0.190	50.0	51.1	102	46.4	93	52-140	10	20	ug/L	06.25.13 14:39	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	94		94		53-159	%	06.25.13 14:39
4-Bromofluorobenzene	94		96		30-186	%	06.25.13 14:39
Toluene-D8	94		96		70-130	%	06.25.13 14:39

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **639971-1-BLK** Matrix: SOLID

Lab Sample Id: **639971-1-BLK**

Analytical Method: **Select Metals by SW-846 6010C** Prep Method: SW3050B

Tech: 4150

Analyst: 4150 Date Prep: 06.20.13 10:40

Seq Number: 916732

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	U	5.00	0.0600	mg/kg	06.20.13 16:37	U	1
Lead	7439-92-1	U	5.00	0.279	mg/kg	06.20.13 16:37	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **639993-1-BLK** Matrix: SOLID

Lab Sample Id: **639993-1-BLK**

Analytical Method: **SVOCs by SW-846 8270D** Prep Method: SW3550

Tech: BRO

Analyst: NTR Date Prep: 06.20.13 13:38

Seq Number: 916744

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2,4-Trichlorobenzene	120-82-1	U	0.333	0.0590	mg/kg	06.20.13 17:55	U	1
1,2-Dichlorobenzene	95-50-1	U	0.333	0.0540	mg/kg	06.20.13 17:55	U	1
1,2-Diphenylhydrazine	122-66-7	U	0.333	0.0367	mg/kg	06.20.13 17:55	U	1
1,3-Dichlorobenzene	541-73-1	U	0.333	0.0527	mg/kg	06.20.13 17:55	U	1
1,4-Dichlorobenzene	106-46-7	U	0.333	0.0520	mg/kg	06.20.13 17:55	U	1
2,4,6-Trichlorophenol	88-06-2	U	0.333	0.0643	mg/kg	06.20.13 17:55	U	1
2,4-Dichlorophenol	120-83-2	U	0.333	0.0423	mg/kg	06.20.13 17:55	U	1
2,4-Dimethylphenol	105-67-9	U	0.333	0.0607	mg/kg	06.20.13 17:55	U	1
2,4-Dinitrophenol	51-28-5	U	0.333	0.0537	mg/kg	06.20.13 17:55	U	1
2,4-Dinitrotoluene	121-14-2	U	0.333	0.0537	mg/kg	06.20.13 17:55	U	1
2,6-Dinitrotoluene	606-20-2	U	0.333	0.0433	mg/kg	06.20.13 17:55	U	1
2-Chloronaphthalene	91-58-7	U	0.333	0.0607	mg/kg	06.20.13 17:55	U	1
2-Chlorophenol	95-57-8	U	0.333	0.0597	mg/kg	06.20.13 17:55	U	1
2-Methylnaphthalene	91-57-6	U	0.333	0.0510	mg/kg	06.20.13 17:55	U	1
2-methylphenol	95-48-7	U	0.333	0.0467	mg/kg	06.20.13 17:55	U	1
2-Nitrophenol	88-75-5	U	0.333	0.0420	mg/kg	06.20.13 17:55	U	1
3&4-Methylphenol	15831-10-4	U	0.333	0.0987	mg/kg	06.20.13 17:55	U	1
3,3-Dichlorobenzidine	91-94-1	U	0.333	0.0487	mg/kg	06.20.13 17:55	U	1
4,6-dinitro-2-methyl phenol	534-52-1	U	0.333	0.0580	mg/kg	06.20.13 17:55	U	1
4-Bromophenyl-phenylether	101-55-3	U	0.333	0.0567	mg/kg	06.20.13 17:55	U	1
4-chloro-3-methylphenol	59-50-7	U	0.333	0.0477	mg/kg	06.20.13 17:55	U	1
4-Chloroaniline	106-47-8	U	0.333	0.0553	mg/kg	06.20.13 17:55	U	1
4-Chlorophenyl Phenyl Ether	7005-72-3	U	0.333	0.0633	mg/kg	06.20.13 17:55	U	1
4-Nitrophenol	100-02-7	U	0.333	0.0410	mg/kg	06.20.13 17:55	U	1
Acenaphthene	83-32-9	U	0.333	0.0467	mg/kg	06.20.13 17:55	U	1
Acenaphthylene	208-96-8	U	0.333	0.0567	mg/kg	06.20.13 17:55	U	1
Anthracene	120-12-7	U	0.333	0.0493	mg/kg	06.20.13 17:55	U	1
Benzo(a)anthracene	56-55-3	U	0.333	0.0540	mg/kg	06.20.13 17:55	U	1
Benzo(a)pyrene	50-32-8	U	0.333	0.0490	mg/kg	06.20.13 17:55	U	1
Benzo(b)fluoranthene	205-99-2	U	0.333	0.0543	mg/kg	06.20.13 17:55	U	1
Benzo(g,h,i)perylene	191-24-2	U	0.333	0.0550	mg/kg	06.20.13 17:55	U	1
Benzo(k)fluoranthene	207-08-9	U	0.333	0.0573	mg/kg	06.20.13 17:55	U	1
Benzoic Acid	65-85-0	U	0.333	0.0527	mg/kg	06.20.13 17:55	U	1
Benzyl Alcohol	100-51-6	U	0.333	0.0533	mg/kg	06.20.13 17:55	U	1
bis(2-chloroethoxy) methane	111-91-1	U	0.333	0.0400	mg/kg	06.20.13 17:55	U	1
bis(2-chloroethyl) ether	111-44-4	U	0.333	0.0473	mg/kg	06.20.13 17:55	U	1
bis(2-chloroisopropyl) ether	39638-32-9	U	0.333	0.0450	mg/kg	06.20.13 17:55	U	1
bis(2-ethylhexyl) phthalate	117-81-7	U	0.333	0.0540	mg/kg	06.20.13 17:55	U	1
Butylbenzylphthalate	85-68-7	U	0.333	0.0500	mg/kg	06.20.13 17:55	U	1
Chrysene	218-01-9	U	0.333	0.0443	mg/kg	06.20.13 17:55	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **639993-1-BLK** Matrix: SOLID

Lab Sample Id: **639993-1-BLK**

Analytical Method: **SVOCs by SW-846 8270D** Prep Method: SW3550

Tech: BRO

Analyst: NTR Date Prep: 06.20.13 13:38

Seq Number: 916744

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Dibenz(a,h)Anthracene	53-70-3	U	0.333	0.0647	mg/kg	06.20.13 17:55	U	1
Dibenzofuran	132-64-9	U	0.333	0.0427	mg/kg	06.20.13 17:55	U	1
Diethyl Phthalate	84-66-2	U	0.333	0.0537	mg/kg	06.20.13 17:55	U	1
Dimethyl Phthalate	131-11-3	U	0.333	0.0503	mg/kg	06.20.13 17:55	U	1
di-n-Butyl Phthalate	84-74-2	U	0.333	0.0613	mg/kg	06.20.13 17:55	U	1
di-n-Octyl Phthalate	117-84-0	U	0.333	0.0553	mg/kg	06.20.13 17:55	U	1
Fluoranthene	206-44-0	U	0.333	0.0433	mg/kg	06.20.13 17:55	U	1
Fluorene	86-73-7	U	0.333	0.0407	mg/kg	06.20.13 17:55	U	1
Hexachlorobenzene	118-74-1	U	0.333	0.0557	mg/kg	06.20.13 17:55	U	1
Hexachlorobutadiene	87-68-3	U	0.333	0.0370	mg/kg	06.20.13 17:55	U	1
Hexachlorocyclopentadiene	77-47-4	U	0.333	0.0573	mg/kg	06.20.13 17:55	U	1
Hexachloroethane	67-72-1	U	0.333	0.0517	mg/kg	06.20.13 17:55	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	U	0.333	0.0607	mg/kg	06.20.13 17:55	U	1
Isophorone	78-59-1	U	0.333	0.0343	mg/kg	06.20.13 17:55	U	1
Naphthalene	91-20-3	U	0.333	0.0533	mg/kg	06.20.13 17:55	U	1
Nitrobenzene	98-95-3	U	0.333	0.0593	mg/kg	06.20.13 17:55	U	1
N-Nitrosodi-n-Propylamine	621-64-7	U	0.333	0.0477	mg/kg	06.20.13 17:55	U	1
N-Nitrosodiphenylamine	86-30-6	U	0.333	0.0700	mg/kg	06.20.13 17:55	U	1
Pentachlorophenol	87-86-5	U	0.333	0.0603	mg/kg	06.20.13 17:55	U	1
Phenanthrene	85-01-8	U	0.333	0.0553	mg/kg	06.20.13 17:55	U	1
Phenol	108-95-2	U	0.333	0.0467	mg/kg	06.20.13 17:55	U	1
Pyrene	129-00-0	U	0.333	0.0567	mg/kg	06.20.13 17:55	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **639999-1-BLK** Matrix: SOLID

Lab Sample Id: **639999-1-BLK**

Analytical Method: **EPH by MADEP Method** Prep Method: SW3550

Tech: BRO

Analyst: NTR Date Prep: 06.20.13 12:40

Seq Number: 917187

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Unadjusted C11-C22 Aromatics	C11C22	U	6.67	6.67	mg/kg	06.26.13 00:25	U	1
Unadjusted C9-C18 Aliphatics	ALHYDRC9C1	U	3.33	3.33	mg/kg	06.26.13 09:15	U	1
Unadjusted C19-C36 Aliphatics	ALHYDRC19C	U	3.33	3.33	mg/kg	06.26.13 09:15	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640013-1-BLK** Matrix: SOLID

Lab Sample Id: **640013-1-BLK**

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5035

Tech: BAT

Analyst: MLA Date Prep: 06.20.13 07:45

Seq Number: 916748

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	0.0010	0.00075	mg/kg	06.20.13 10:54	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.0020	0.0012	mg/kg	06.20.13 10:54	U	1
1,1,2-Trichloroethane	79-00-5	U	0.0010	0.00067	mg/kg	06.20.13 10:54	U	1
1,1-Dichloroethane	75-34-3	U	0.0010	0.00080	mg/kg	06.20.13 10:54	U	1
1,1-Dichloroethene	75-35-4	U	0.0020	0.0012	mg/kg	06.20.13 10:54	U	1
1,1-Dichloropropene	563-58-6	U	0.0010	0.00054	mg/kg	06.20.13 10:54	U	1
1,2,3-Trichlorobenzene	87-61-6	U	0.0010	0.00057	mg/kg	06.20.13 10:54	U	1
1,2,3-Trichloropropane	96-18-4	U	0.0020	0.0016	mg/kg	06.20.13 10:54	U	1
1,2,4-Trichlorobenzene	120-82-1	U	0.0010	0.00087	mg/kg	06.20.13 10:54	U	1
1,2,4-Trimethylbenzene	95-63-6	U	0.0010	0.00072	mg/kg	06.20.13 10:54	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	0.0010	0.00086	mg/kg	06.20.13 10:54	U	1
1,2-Dichlorobenzene	95-50-1	U	0.0020	0.0013	mg/kg	06.20.13 10:54	U	1
1,2-Dichloroethane	107-06-2	U	0.0010	0.00060	mg/kg	06.20.13 10:54	U	1
1,2-Dichloropropane	78-87-5	U	0.0010	0.00093	mg/kg	06.20.13 10:54	U	1
1,3,5-Trimethylbenzene	108-67-8	U	0.0010	0.00081	mg/kg	06.20.13 10:54	U	1
1,3-Dichlorobenzene	541-73-1	U	0.0010	0.00100	mg/kg	06.20.13 10:54	U	1
1,3-Dichloropropane	142-28-9	U	0.0010	0.00069	mg/kg	06.20.13 10:54	U	1
1,4-Dichlorobenzene	106-46-7	U	0.0010	0.00068	mg/kg	06.20.13 10:54	U	1
2,2-Dichloropropane	594-20-7	U	0.0010	0.00060	mg/kg	06.20.13 10:54	U	1
2-Butanone (MEK)	78-93-3	U	0.010	0.0023	mg/kg	06.20.13 10:54	U	1
2-Chlorotoluene	95-49-8	U	0.0010	0.00071	mg/kg	06.20.13 10:54	U	1
2-Hexanone	591-78-6	U	0.010	0.0011	mg/kg	06.20.13 10:54	U	1
4-Chlorotoluene	106-43-4	U	0.0010	0.00055	mg/kg	06.20.13 10:54	U	1
4-Isopropyltoluene	99-87-6	U	0.0010	0.00080	mg/kg	06.20.13 10:54	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	0.010	0.0032	mg/kg	06.20.13 10:54	U	1
Acetone	67-64-1	U	0.010	0.0069	mg/kg	06.20.13 10:54	U	1
Benzene	71-43-2	U	0.0010	0.00051	mg/kg	06.20.13 10:54	U	1
Bromobenzene	108-86-1	U	0.0010	0.00085	mg/kg	06.20.13 10:54	U	1
Bromochloromethane	74-97-5	U	0.0020	0.0010	mg/kg	06.20.13 10:54	U	1
Bromodichloromethane	75-27-4	U	0.0010	0.00050	mg/kg	06.20.13 10:54	U	1
Bromoform	75-25-2	U	0.0010	0.00096	mg/kg	06.20.13 10:54	U	1
Bromomethane	74-83-9	U	0.0050	0.0025	mg/kg	06.20.13 10:54	U	1
Carbon tetrachloride	56-23-5	U	0.0010	0.00074	mg/kg	06.20.13 10:54	U	1
Chlorobenzene	108-90-7	U	0.0010	0.00058	mg/kg	06.20.13 10:54	U	1
Chlorodibromomethane	124-48-1	U	0.0010	0.00099	mg/kg	06.20.13 10:54	U	1
Chloroethane	75-00-3	U	0.0050	0.0024	mg/kg	06.20.13 10:54	U	1
Chloroform	67-66-3	U	0.0010	0.00074	mg/kg	06.20.13 10:54	U	1
Chloromethane	74-87-3	U	0.0050	0.0023	mg/kg	06.20.13 10:54	U	1
cis-1,2-Dichloroethene	156-59-2	U	0.0010	0.00066	mg/kg	06.20.13 10:54	U	1
cis-1,3-Dichloropropene	10061-01-5	U	0.0010	0.00054	mg/kg	06.20.13 10:54	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640013-1-BLK** Matrix: SOLID

Lab Sample Id: **640013-1-BLK**

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5035

Tech: BAT

Analyst: MLA Date Prep: 06.20.13 07:45

Seq Number: 916748

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Dichlorodifluoromethane	75-71-8	U	0.0020	0.0012	mg/kg	06.20.13 10:54	U	1
Ethanol	64-17-5	U	0.050	0.028	mg/kg	06.20.13 10:54	U	1
Ethylbenzene	100-41-4	U	0.0010	0.00057	mg/kg	06.20.13 10:54	U	1
Isopropyl Ether	108-20-3	U	0.0020	0.0013	mg/kg	06.20.13 10:54	U	1
Isopropylbenzene	98-82-8	U	0.0010	0.00076	mg/kg	06.20.13 10:54	U	1
m,p-Xylenes	179601-23-1	U	0.00200	0.00121	mg/kg	06.20.13 10:54	U	1
Methyl tert-butyl ether	1634-04-4	U	0.0020	0.00069	mg/kg	06.20.13 10:54	U	1
Methylene chloride	75-09-2	U	0.0050	0.0022	mg/kg	06.20.13 10:54	U	1
Naphthalene	91-20-3	U	0.0020	0.0013	mg/kg	06.20.13 10:54	U	1
n-Butylbenzene	104-51-8	U	0.0010	0.00088	mg/kg	06.20.13 10:54	U	1
n-Propylbenzene	103-65-1	U	0.0010	0.00078	mg/kg	06.20.13 10:54	U	1
o-Xylene	95-47-6	U	0.00100	0.000716	mg/kg	06.20.13 10:54	U	1
sec-Butylbenzene	135-98-8	U	0.0010	0.00066	mg/kg	06.20.13 10:54	U	1
Styrene	100-42-5	U	0.0010	0.00074	mg/kg	06.20.13 10:54	U	1
tert-Butylbenzene	98-06-6	U	0.0010	0.00083	mg/kg	06.20.13 10:54	U	1
Tetrachloroethene	127-18-4	U	0.0020	0.0010	mg/kg	06.20.13 10:54	U	1
Toluene	108-88-3	U	0.0010	0.00059	mg/kg	06.20.13 10:54	U	1
trans-1,2-Dichloroethene	156-60-5	U	0.0010	0.00078	mg/kg	06.20.13 10:54	U	1
trans-1,3-Dichloropropene	10061-02-6	U	0.0010	0.00067	mg/kg	06.20.13 10:54	U	1
Trichloroethene	79-01-6	U	0.0010	0.00071	mg/kg	06.20.13 10:54	U	1
Trichlorofluoromethane	75-69-4	U	0.0050	0.0035	mg/kg	06.20.13 10:54	U	1
Vinyl acetate	108-05-4	U	0.0050	0.00072	mg/kg	06.20.13 10:54	U	1
Vinyl chloride	75-01-4	U	0.0050	0.0020	mg/kg	06.20.13 10:54	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640027-1-BLK** Matrix: WATER

Lab Sample Id: **640027-1-BLK**

Analytical Method: **MADEP VPH REV 1.1** Prep Method: SW5030B

Tech: BAT

Analyst: MLA Date Prep: 06.20.13 08:13

Seq Number: 916782

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C5-C8 Aliphatics (Unadj.)	ALHYDRC5C8	U	15.0	15.0	ug/L	06.20.13 10:51	U	1
C9-C10 Aromatics (Unadj.)	HYDC9C10	U	5.00	5.00	ug/L	06.20.13 10:51	U	1
C9-C12 Aliphatics (Unadj.)	ALHYDRC9C1	U	15.0	15.0	ug/L	06.20.13 10:51	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640082-1-BLK** Matrix: WATER

Lab Sample Id: **640082-1-BLK**

Analytical Method: **Select Metals by SW-846 6010C** Prep Method: SW3010A

Tech: ABA

Analyst: 4150 Date Prep: 06.24.13 09:21

Seq Number: 916962

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	0.000700	0.0500	0.000300	mg/L	06.25.13 12:57	J	1
Lead	7439-92-1	U	0.0100	0.00330	mg/L	06.25.13 12:57	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640106-1-BLK** Matrix: WATER

Lab Sample Id: **640106-1-BLK**

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B

Tech: BAT

Analyst: MLA Date Prep: 06.22.13 08:09

Seq Number: 916874

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	06.22.13 11:34	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	06.22.13 11:34	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	06.22.13 11:34	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	06.22.13 11:34	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	06.22.13 11:34	U	1
1,1-Dichloropropene	563-58-6	U	1.00	0.100	ug/L	06.22.13 11:34	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	06.22.13 11:34	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.210	ug/L	06.22.13 11:34	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	06.22.13 11:34	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	06.22.13 11:34	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	06.22.13 11:34	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	06.22.13 11:34	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.22.13 11:34	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	06.22.13 11:34	U	1
1,3,5-Trimethylbenzene	108-67-8	U	1.00	0.170	ug/L	06.22.13 11:34	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	06.22.13 11:34	U	1
1,3-Dichloropropane	142-28-9	U	1.00	0.190	ug/L	06.22.13 11:34	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	06.22.13 11:34	U	1
2,2-Dichloropropane	594-20-7	U	1.00	0.210	ug/L	06.22.13 11:34	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	06.22.13 11:34	U	1
2-Chlorotoluene	95-49-8	U	1.00	0.190	ug/L	06.22.13 11:34	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	06.22.13 11:34	U	1
4-Chlorotoluene	106-43-4	U	1.00	0.130	ug/L	06.22.13 11:34	U	1
4-Isopropyltoluene	99-87-6	U	1.00	0.130	ug/L	06.22.13 11:34	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	06.22.13 11:34	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	06.22.13 11:34	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	06.22.13 11:34	U	1
Bromobenzene	108-86-1	U	1.00	0.210	ug/L	06.22.13 11:34	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	06.22.13 11:34	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	06.22.13 11:34	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	06.22.13 11:34	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	06.22.13 11:34	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	06.22.13 11:34	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	06.22.13 11:34	U	1
Chlorodibromomethane	124-48-1	U	1.00	0.150	ug/L	06.22.13 11:34	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	06.22.13 11:34	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	06.22.13 11:34	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	06.22.13 11:34	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	06.22.13 11:34	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	06.22.13 11:34	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640106-1-BLK** Matrix: WATER

Lab Sample Id: **640106-1-BLK**

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B

Tech: BAT

Analyst: MLA Date Prep: 06.22.13 08:09

Seq Number: 916874

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	06.22.13 11:34	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.22.13 11:34	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.22.13 11:34	U	1
Isopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.22.13 11:34	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	06.22.13 11:34	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.22.13 11:34	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.22.13 11:34	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	06.22.13 11:34	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.22.13 11:34	U	1
n-Butylbenzene	104-51-8	U	1.00	0.170	ug/L	06.22.13 11:34	U	1
n-Propylbenzene	103-65-1	U	1.00	0.180	ug/L	06.22.13 11:34	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.22.13 11:34	U	1
sec-Butylbenzene	135-98-8	U	1.00	0.210	ug/L	06.22.13 11:34	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	06.22.13 11:34	U	1
tert-Butylbenzene	98-06-6	U	1.00	0.180	ug/L	06.22.13 11:34	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	06.22.13 11:34	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.22.13 11:34	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	06.22.13 11:34	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	06.22.13 11:34	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	06.22.13 11:34	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	06.22.13 11:34	U	1
Vinyl acetate	108-05-4	U	1.00	0.720	ug/L	06.22.13 11:34	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	06.22.13 11:34	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640192-1-BLK** Matrix: WATER

Lab Sample Id: **640192-1-BLK**

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B

Tech: BAT

Analyst: MLA Date Prep: 06.25.13 06:41

Seq Number: 917027

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	06.25.13 09:18	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	06.25.13 09:18	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	06.25.13 09:18	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	06.25.13 09:18	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	06.25.13 09:18	U	1
1,1-Dichloropropene	563-58-6	U	1.00	0.100	ug/L	06.25.13 09:18	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	06.25.13 09:18	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.210	ug/L	06.25.13 09:18	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	06.25.13 09:18	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	06.25.13 09:18	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	06.25.13 09:18	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	06.25.13 09:18	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.25.13 09:18	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	06.25.13 09:18	U	1
1,3,5-Trimethylbenzene	108-67-8	U	1.00	0.170	ug/L	06.25.13 09:18	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	06.25.13 09:18	U	1
1,3-Dichloropropane	142-28-9	U	1.00	0.190	ug/L	06.25.13 09:18	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	06.25.13 09:18	U	1
2,2-Dichloropropane	594-20-7	U	1.00	0.210	ug/L	06.25.13 09:18	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	06.25.13 09:18	U	1
2-Chlorotoluene	95-49-8	U	1.00	0.190	ug/L	06.25.13 09:18	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	06.25.13 09:18	U	1
4-Chlorotoluene	106-43-4	U	1.00	0.130	ug/L	06.25.13 09:18	U	1
4-Isopropyltoluene	99-87-6	U	1.00	0.130	ug/L	06.25.13 09:18	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	06.25.13 09:18	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	06.25.13 09:18	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	06.25.13 09:18	U	1
Bromobenzene	108-86-1	U	1.00	0.210	ug/L	06.25.13 09:18	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	06.25.13 09:18	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	06.25.13 09:18	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	06.25.13 09:18	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	06.25.13 09:18	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	06.25.13 09:18	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	06.25.13 09:18	U	1
Chlorodibromomethane	124-48-1	U	1.00	0.150	ug/L	06.25.13 09:18	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	06.25.13 09:18	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	06.25.13 09:18	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	06.25.13 09:18	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	06.25.13 09:18	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	06.25.13 09:18	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640192-1-BLK** Matrix: WATER

Lab Sample Id: **640192-1-BLK**

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B

Tech: BAT

Analyst: MLA Date Prep: 06.25.13 06:41

Seq Number: 917027

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	06.25.13 09:18	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.25.13 09:18	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.25.13 09:18	U	1
Isopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.25.13 09:18	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	06.25.13 09:18	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.25.13 09:18	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.25.13 09:18	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	06.25.13 09:18	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.25.13 09:18	U	1
n-Butylbenzene	104-51-8	U	1.00	0.170	ug/L	06.25.13 09:18	U	1
n-Propylbenzene	103-65-1	U	1.00	0.180	ug/L	06.25.13 09:18	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.25.13 09:18	U	1
sec-Butylbenzene	135-98-8	U	1.00	0.210	ug/L	06.25.13 09:18	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	06.25.13 09:18	U	1
tert-Butylbenzene	98-06-6	U	1.00	0.180	ug/L	06.25.13 09:18	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	06.25.13 09:18	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.25.13 09:18	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	06.25.13 09:18	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	06.25.13 09:18	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	06.25.13 09:18	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	06.25.13 09:18	U	1
Vinyl acetate	108-05-4	U	1.00	0.720	ug/L	06.25.13 09:18	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	06.25.13 09:18	U	1

XENCO Laboratories
Florida Testing Services, LLC

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640195-1-BLK** Matrix: WATER

Lab Sample Id: **640195-1-BLK**

Analytical Method: **SVOCs by EPA 625M + 10 TICs** Prep Method: SW3520C

Tech: BRO

Analyst: NTR Date Prep: 06.21.13 14:00

Seq Number: 917130

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2,4-Trichlorobenzene	120-82-1	U	10.0	1.43	ug/L	06.25.13 11:44	U	1
1,2-Dichlorobenzene	95-50-1	U	10.0	1.83	ug/L	06.25.13 11:44	U	1
1,2-Diphenylhydrazine (as Azobenzene)	122-66-7	U	50.0	4.76	ug/L	06.25.13 11:44	U	1
1,3-Dichlorobenzene	541-73-1	U	10.0	2.11	ug/L	06.25.13 11:44	U	1
1,3-Dinitrobenzene	99-65-0	U	10.0	20.1	ug/L	06.25.13 11:44	U	1
2,4,6-Trichlorophenol	88-06-2	U	10.0	1.64	ug/L	06.25.13 11:44	U	1
2,4-Dichlorophenol	120-83-2	U	10.0	1.78	ug/L	06.25.13 11:44	U	1
2,4-Dimethylphenol	105-67-9	U	10.0	1.63	ug/L	06.25.13 11:44	U	1
2,4-Dinitrophenol	51-28-5	U	50.0	7.11	ug/L	06.25.13 11:44	U	1
2,4-Dinitrotoluene	121-14-2	U	10.0	2.14	ug/L	06.25.13 11:44	U	1
2,6-Dinitrotoluene	606-20-2	U	10.0	2.72	ug/L	06.25.13 11:44	U	1
2-Chloronaphthalene	91-58-7	U	10.0	1.29	ug/L	06.25.13 11:44	U	1
2-Chlorophenol	95-57-8	U	10.0	1.83	ug/L	06.25.13 11:44	U	1
2-Methylnaphthalene	91-57-6	U	10.0	1.19	ug/L	06.25.13 11:44	U	1
2-Methylphenol	95-48-7	U	10.0	2.00	ug/L	06.25.13 11:44	U	1
2-Nitrophenol	88-75-5	U	10.0	1.95	ug/L	06.25.13 11:44	U	1
3&4-Methylphenol	15831-10-4	U	10.0	2.55	ug/L	06.25.13 11:44	U	1
3,3-Dichlorobenzidine	91-94-1	U	20.0	3.88	ug/L	06.25.13 11:44	U	1
4,6-Dinitro-2-methyl phenol	534-52-1	U	50.0	1.40	ug/L	06.25.13 11:44	U	1
4-Bromophenyl phenyl ether	101-55-3	U	10.0	2.12	ug/L	06.25.13 11:44	U	1
4-Chloro-3-methylphenol	59-50-7	U	20.0	2.18	ug/L	06.25.13 11:44	U	1
4-Chloroaniline	106-47-8	U	10.0	3.09	ug/L	06.25.13 11:44	U	1
4-Chlorophenyl phenyl ether	7005-72-3	U	10.0	1.35	ug/L	06.25.13 11:44	U	1
4-Nitrophenol	100-02-7	U	50.0	2.41	ug/L	06.25.13 11:44	U	1
Acenaphthene	83-32-9	U	10.0	1.43	ug/L	06.25.13 11:44	U	1
Acenaphthylene	208-96-8	U	10.0	1.48	ug/L	06.25.13 11:44	U	1
Anthracene	120-12-7	U	10.0	2.01	ug/L	06.25.13 11:44	U	1
Benzo(a)anthracene	56-55-3	U	10.0	1.90	ug/L	06.25.13 11:44	U	1
Benzo(a)pyrene	50-32-8	U	10.0	1.80	ug/L	06.25.13 11:44	U	1
Benzo(b)fluoranthene	205-99-2	U	10.0	1.97	ug/L	06.25.13 11:44	U	1
Benzo(g,h,i)perylene	191-24-2	U	10.0	1.97	ug/L	06.25.13 11:44	U	1
Benzo(k)fluoranthene	207-08-9	U	10.0	2.71	ug/L	06.25.13 11:44	U	1
Benzoic acid	65-85-0	U	50.0	2.21	ug/L	06.25.13 11:44	U	1
Benzyl alcohol	100-51-6	U	20.0	1.23	ug/L	06.25.13 11:44	U	1
Bis(2-chloroethoxy) methane	111-91-1	U	10.0	1.25	ug/L	06.25.13 11:44	U	1
Bis(2-chloroethyl) ether	111-44-4	U	10.0	1.78	ug/L	06.25.13 11:44	U	1
Bis(2-chloroisopropyl) ether	39638-32-9	U	10.0	1.24	ug/L	06.25.13 11:44	U	1
Bis(2-ethylhexyl) phthalate	117-81-7	U	10.0	1.20	ug/L	06.25.13 11:44	U	1
Butyl benzyl phthalate	85-68-7	U	10.0	1.82	ug/L	06.25.13 11:44	U	1
Chrysene	218-01-9	U	10.0	2.09	ug/L	06.25.13 11:44	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640195-1-BLK** Matrix: WATER

Lab Sample Id: **640195-1-BLK**

Analytical Method: **SVOCs by EPA 625M + 10 TICs** Prep Method: SW3520C

Tech: BRO

Analyst: NTR Date Prep: 06.21.13 14:00

Seq Number: 917130

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Dibenz(a,h)anthracene	53-70-3	U	10.0	1.83	ug/L	06.25.13 11:44	U	1
Dibenzofuran	132-64-9	U	10.0	1.64	ug/L	06.25.13 11:44	U	1
Diethyl phthalate	84-66-2	U	10.0	1.90	ug/L	06.25.13 11:44	U	1
Dimethyl phthalate	131-11-3	U	10.0	1.97	ug/L	06.25.13 11:44	U	1
Di-n-butyl phthalate	84-74-2	U	10.0	2.08	ug/L	06.25.13 11:44	U	1
Di-n-octyl phthalate	117-84-0	U	10.0	1.38	ug/L	06.25.13 11:44	U	1
Fluoranthene	206-44-0	U	10.0	1.81	ug/L	06.25.13 11:44	U	1
Fluorene	86-73-7	U	10.0	1.56	ug/L	06.25.13 11:44	U	1
Hexachlorobenzene	118-74-1	U	10.0	2.21	ug/L	06.25.13 11:44	U	1
Hexachlorobutadiene	87-68-3	U	10.0	1.78	ug/L	06.25.13 11:44	U	1
Hexachlorocyclopentadiene	77-47-4	U	10.0	1.87	ug/L	06.25.13 11:44	U	1
Hexachloroethane	67-72-1	U	10.0	2.38	ug/L	06.25.13 11:44	U	1
Indeno(1,2,3-c,d)pyrene	193-39-5	U	10.0	1.87	ug/L	06.25.13 11:44	U	1
Isophorone	78-59-1	U	10.0	1.41	ug/L	06.25.13 11:44	U	1
Naphthalene	91-20-3	U	10.0	1.52	ug/L	06.25.13 11:44	U	1
Nitrobenzene	98-95-3	U	10.0	1.49	ug/L	06.25.13 11:44	U	1
N-Nitrosodi-n-propylamine	621-64-7	U	10.0	1.36	ug/L	06.25.13 11:44	U	1
N-Nitrosodiphenylamine	86-30-6	U	10.0	2.50	ug/L	06.25.13 11:44	U	1
Pentachlorophenol	87-86-5	U	50.0	2.26	ug/L	06.25.13 11:44	U	1
Phenanthrene	85-01-8	U	10.0	2.04	ug/L	06.25.13 11:44	U	1
Phenol	108-95-2	U	10.0	1.76	ug/L	06.25.13 11:44	U	1
Pyrene	129-00-0	U	10.0	2.40	ug/L	06.25.13 11:44	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640202-1-BLK** Matrix: WATER

Lab Sample Id: **640202-1-BLK**

Analytical Method: **EPH by MADEP Method** Prep Method: SW3520C

Tech: BRO

Analyst: NTR Date Prep: 06.20.13 10:30

Seq Number: 917179

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Unadjusted C11-C22 Aromatics	C11C22	U	100	100	ug/L	06.25.13 20:52	U	1
Unadjusted C9-C18 Aliphatics	ALHYDRC9C1	U	100	100	ug/L	06.26.13 06:02	U	1
Unadjusted C19-C36 Aliphatics	ALHYDRC19C	U	100	100	ug/L	06.26.13 06:02	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640292-1-BLK** Matrix: WATER

Lab Sample Id: **640292-1-BLK**

Analytical Method: **VOCs by GC/MS by SM6200B** Prep Method: SM6200B_PREP

Tech: BAT

Analyst: MLA Date Prep: 06.26.13 07:23

Seq Number: 917159

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	0.500	0.0760	ug/L	06.26.13 10:33	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.500	0.0700	ug/L	06.26.13 10:33	U	1
1,1,2-Trichloroethane	79-00-5	U	0.500	0.113	ug/L	06.26.13 10:33	U	1
1,1-Dichloroethane	75-34-3	U	0.500	0.121	ug/L	06.26.13 10:33	U	1
1,1-Dichloroethene	75-35-4	U	0.500	0.104	ug/L	06.26.13 10:33	U	1
1,1-Dichloropropene	563-58-6	U	0.500	0.0600	ug/L	06.26.13 10:33	U	1
1,2,3-Trichlorobenzene	87-61-6	U	2.00	0.118	ug/L	06.26.13 10:33	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.138	ug/L	06.26.13 10:33	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.0690	ug/L	06.26.13 10:33	U	1
1,2,4-Trimethylbenzene	95-63-6	U	0.500	0.103	ug/L	06.26.13 10:33	U	1
1,2-Dibromoethane (EDB)		U	1.00	0.180	ug/L	06.26.13 10:33	U	1
1,2-Dichlorobenzene	95-50-1	U	0.500	0.0940	ug/L	06.26.13 10:33	U	1
1,2-Dichloroethane	107-06-2	U	0.500	0.0900	ug/L	06.26.13 10:33	U	1
1,2-Dichloropropane	78-87-5	U	0.500	0.122	ug/L	06.26.13 10:33	U	1
1,3,5-Trimethylbenzene	108-67-8	U	0.500	0.0870	ug/L	06.26.13 10:33	U	1
1,3-Dichlorobenzene	541-73-1	U	0.500	0.0980	ug/L	06.26.13 10:33	U	1
1,3-Dichloropropane	142-28-9	U	0.500	0.133	ug/L	06.26.13 10:33	U	1
1,4-Dichlorobenzene	106-46-7	U	0.500	0.0670	ug/L	06.26.13 10:33	U	1
2,2-Dichloropropane	594-20-7	U	0.200	0.0970	ug/L	06.26.13 10:33	U	1
2-Butanone (MEK)	78-93-3	U	20.0	0.378	ug/L	06.26.13 10:33	U	1
2-Chlorotoluene	95-49-8	U	0.200	0.0880	ug/L	06.26.13 10:33	U	1
2-Hexanone	591-78-6	U	0.400	0.352	ug/L	06.26.13 10:33	U	1
4-Chlorotoluene	106-43-4	U	0.500	0.0900	ug/L	06.26.13 10:33	U	1
4-Isopropyltoluene	99-87-6	U	0.500	0.0890	ug/L	06.26.13 10:33	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	0.400	0.253	ug/L	06.26.13 10:33	U	1
Acetone	67-64-1	U	2.00	0.352	ug/L	06.26.13 10:33	U	1
Benzene	71-43-2	U	0.500	0.119	ug/L	06.26.13 10:33	U	1
Bromobenzene	108-86-1	U	0.500	0.132	ug/L	06.26.13 10:33	U	1
Bromochloromethane	74-97-5	U	0.500	0.112	ug/L	06.26.13 10:33	U	1
Bromodichloromethane	75-27-4	U	0.500	0.124	ug/L	06.26.13 10:33	U	1
Bromoform	75-25-2	U	2.00	0.159	ug/L	06.26.13 10:33	U	1
Bromomethane	74-83-9	U	1.00	0.0970	ug/L	06.26.13 10:33	U	1
Carbon tetrachloride	56-23-5	U	0.500	0.0990	ug/L	06.26.13 10:33	U	1
Chlorobenzene	108-90-7	U	0.500	0.105	ug/L	06.26.13 10:33	U	1
Chlorodibromomethane	124-48-1	U	0.500	0.177	ug/L	06.26.13 10:33	U	1
Chloroethane	75-00-3	U	0.500	0.0420	ug/L	06.26.13 10:33	U	1
Chloroform	67-66-3	U	0.500	0.172	ug/L	06.26.13 10:33	U	1
Chloromethane	74-87-3	U	0.500	0.0850	ug/L	06.26.13 10:33	U	1
cis-1,2-Dichloroethene	156-59-2	U	0.500	0.114	ug/L	06.26.13 10:33	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	06.26.13 10:33	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640292-1-BLK** Matrix: WATER

Lab Sample Id: **640292-1-BLK**

Analytical Method: **VOCs by GC/MS by SM6200B** Prep Method: SM6200B_PREP

Tech: BAT

Analyst: MLA Date Prep: 06.26.13 07:23

Seq Number: 917159

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Dichlorodifluoromethane	75-71-8	U	1.00	0.0670	ug/L	06.26.13 10:33	U	1
Ethanol	64-17-5	U	50.0	3.00	ug/L	06.26.13 10:33	U	1
Ethylbenzene	100-41-4	U	0.500	0.0920	ug/L	06.26.13 10:33	U	1
Isopropyl ether	108-20-3	U	0.500	0.0920	ug/L	06.26.13 10:33	U	1
Isopropylbenzene	98-82-8	U	0.500	0.0980	ug/L	06.26.13 10:33	U	1
Methyl tert-butyl ether (MTBE)	1634-04-4	U	0.500	0.169	ug/L	06.26.13 10:33	U	1
Methylene Chloride	75-09-2	U	0.500	0.190	ug/L	06.26.13 10:33	U	1
Naphthalene	91-20-3	U	2.00	0.0940	ug/L	06.26.13 10:33	U	1
n-Butylbenzene	104-51-8	U	2.00	0.0600	ug/L	06.26.13 10:33	U	1
n-Propylbenzene	103-65-1	U	1.00	0.0650	ug/L	06.26.13 10:33	U	1
sec-Butylbenzene	135-98-8	U	0.500	0.0920	ug/L	06.26.13 10:33	U	1
Styrene	100-42-5	U	0.500	0.0740	ug/L	06.26.13 10:33	U	1
tert-Butylbenzene	98-06-6	U	0.500	0.0890	ug/L	06.26.13 10:33	U	1
Tetrachloroethene (PCE)	127-18-4	U	0.500	0.0540	ug/L	06.26.13 10:33	U	1
Toluene	108-88-3	U	0.500	0.0570	ug/L	06.26.13 10:33	U	1
trans-1,2-Dichloroethene	156-60-5	U	0.500	0.188	ug/L	06.26.13 10:33	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	06.26.13 10:33	U	1
Trichloroethene	79-01-6	U	0.500	0.139	ug/L	06.26.13 10:33	U	1
Trichlorofluoromethane	75-69-4	U	0.500	0.0540	ug/L	06.26.13 10:33	U	1
Vinyl Acetate	108-05-4	U	1.00	0.720	ug/L	06.26.13 10:33	U	1
Vinyl Chloride	75-01-4	U	0.500	0.0810	ug/L	06.26.13 10:33	U	1
m,p-Xylenes	179601-23-1	U	1.00	0.176	ug/L	06.26.13 10:33	U	1
o-Xylene	95-47-6	U	0.500	0.122	ug/L	06.26.13 10:33	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640310-1-BLK** Matrix: SOLID

Lab Sample Id: **640310-1-BLK**

Analytical Method: **MADEP VPH REV 1.1** Prep Method: SW5030B

Tech: BAT

Analyst: MLA Date Prep: 06.26.13 07:39

Seq Number: 917180

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Unadjusted C5-C8 Aliphatics	ALHYDRC5C8	U	0.750	0.750	mg/kg	06.26.13 11:01	U	50
Unadjusted C9-C12 Aliphatics	ALHYDRC9C1	U	0.750	0.750	mg/kg	06.26.13 11:01	U	50
Unadjusted C9-C10 Aromatics	HYDC9C10	U	0.250	0.250	mg/kg	06.26.13 11:01	U	50

WO #4 653446.3 EMB 6/22/13

Chain of Custody Record

Page 1 of 1

Mill Creek Environmental Services, Inc.
1818 Perimeter Rd.
Dawsonville, GA 30534
Phone: 706-579-1607
Fax: 706-265-4916

ENVIRONMENTAL SERVICES

Client: Apex Village	MCES Project #: AV-1301-6
Send Report To: Mill Creek Environmental Services, Inc. 1818 Perimeter Rd. Dawsonville, GA 30534	
Attn: Dan Centofanti	Acct. #:
Phone: 706-579-1607	Shipping Method:
Fax: 706-265-4916	Airbill #: 8027 1162 4586
Sampled By: David Payne	Signature: David Payne
Turnaround Time: (X) Standard ( ) Rush	

Requested Parameters

Sample ID	Date	Time	Grab (G) Comp. (C)	Matrix	VOC 8260 B	SVOC 8270	EPH	VPH	Pb + Cr (total metals)	VOC 8260B + Naphthalene	VOCs 6200B	SVOCs 625 + 10 TICs		# and type of containers: HCL	HNO_3	H_2SO_4	NaOH	MeOH	None	Remarks
MW-4, 12'	6-17-13	1450	X	S	X	X	X	X	X								2	2	2	
MW-4, 16'	6-17-13	1500	X	S	X	X	X	X	X								2	2	2	
MW-1	6-18-13	1415	X	GW						X										
MW-2	6-18-13	1440	X	GW						X										
MW-3	6-18-13	1500	X	GW						X										
MW-4	6-18-13	1520	X	GW			X	X	X		X	X								6 Ambers 5 VOAS 1 HDPE metals = 12

Comments: Shipped Sedex @ Office Max, Apex N.C.

Relinquished By: David Payne	Date: 6-18-13	Time: 1700	Received By: Amio Lagmas	Date: 6/19/13	Time: 10:00
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

2.5°C

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Mill Creek Environmental Services

Date/ Time Received: 06/19/2013 10:00:00 AM

Work Order #: 465343

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : #61

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	2.5	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6 *Custody Seals Signed and dated?	**N/A**	
#7 *Chain of Custody present?	**Yes**	
#8 Sample instructions complete on Chain of Custody?	**Yes**	
#9 Any missing/extra samples?	**No**	
#10 Chain of Custody signed when relinquished/ received?	**Yes**	
#11 Chain of Custody agrees with sample label(s)?	**Yes**	
#12 Container label(s) legible and intact?	**Yes**	
#13 Sample matrix/ properties agree with Chain of Custody?	**Yes**	
#14 Samples in proper container/ bottle?	**Yes**	
#15 Samples properly preserved?	**Yes**	
#16 Sample container(s) intact?	**Yes**	
#17 Sufficient sample amount for indicated test(s)?	**Yes**	
#18 All samples received within hold time?	**Yes**	
#19 Subcontract of sample(s)?	**No**	
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	**Yes**	
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	**Yes**	
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: DL	PH Device/Lot#: I16497-8

Checklist completed by: Dario Lagunas Date: 06/20/2013

Checklist reviewed by: Eben Buchanan Date: 06/22/2013

Analytical Report 470271

for

Mill Creek Environmental Services

Project Manager: David Payne

Apex Village

AV-1301-7

17-SEP-13

Collected By: Client

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-13-14-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Lakeland: Florida (E84098)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

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XENCO Laboratories
Florida Testing Services, LLC

17-SEP-13

Project Manager: **David Payne**
Mill Creek Environmental Services
1818 Perimeter Road
Dawsonville, GA 30534

Reference: XENCO Report No(s): **470271**
Apex Village
Project Address: GA

David Payne:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 470271. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 470271 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Eben D. Buchanan, Jr.

Eben Buchanan
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America

Sample Cross Reference 470271

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-5	W	09-12-13 15:40		470271-001
MW-6	W	09-12-13 15:25		470271-002
MW-7	W	09-12-13 15:50		470271-003
Trip Blank	W	09-12-13 00:00		470271-004

CASE NARRATIVE

Client Name: Mill Creek Environmental Services
Project Name: Apex Village

Project ID: *AV-1301-7*
Work Order Number(s): *470271*

Report Date: *17-SEP-13*
Date Received: *09/13/2013*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:
Batch: LBA-922734 VOCs by SW-846 8260B
SW8260LL5_ATL

Batch 922734, 1,1,2-Trichloroethane recovered above QC limits in the Matrix Spike. 1,2-Dibromoethane (EDB) recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 470271-004, -001, -002, -003.
The Laboratory Control Sample for 1,2-Dibromoethane (EDB), 1,1,2-Trichloroethane is within laboratory Control Limits

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantiation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Certificate of Analytical Results 470271

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-5** Matrix: Ground Water Date Received:09.13.13 10.30

Lab Sample Id: 470271-001 Date Collected: 09.12.13 15.40

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 09.14.13 08.03

Seq Number: 922734

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	09.14.13 17.04	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	09.14.13 17.04	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.00	0.110	ug/L	09.14.13 17.04	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	09.14.13 17.04	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	09.14.13 17.04	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	09.14.13 17.04	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	09.14.13 17.04	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	09.14.13 17.04	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	09.14.13 17.04	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.00	0.190	ug/L	09.14.13 17.04	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	09.14.13 17.04	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	09.14.13 17.04	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	09.14.13 17.04	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	09.14.13 17.04	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	09.14.13 17.04	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	09.14.13 17.04	U	1
2-Butanone (MEK)	78-93-3	U	50.0	0.280	ug/L	09.14.13 17.04	U	1
2-Hexanone	591-78-6	U	50.0	0.320	ug/L	09.14.13 17.04	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	50.0	0.260	ug/L	09.14.13 17.04	U	1
Acetone	67-64-1	U	50.0	0.350	ug/L	09.14.13 17.04	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	09.14.13 17.04	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	09.14.13 17.04	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	09.14.13 17.04	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	09.14.13 17.04	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	09.14.13 17.04	U	1
Carbon disulfide	75-15-0	U	50.0	0.260	ug/L	09.14.13 17.04	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	09.14.13 17.04	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	09.14.13 17.04	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	09.14.13 17.04	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	09.14.13 17.04	U	1
Chloromethane	74-87-3	U	3.00	0.250	ug/L	09.14.13 17.04	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	09.14.13 17.04	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	09.14.13 17.04	U	1
Cyclohexane	110-82-7	U	1.00	0.150	ug/L	09.14.13 17.04	U	1
Dibromochloromethane	124-48-1	U	1.00	0.150	ug/L	09.14.13 17.04	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	09.14.13 17.04	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	09.14.13 17.04	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	09.14.13 17.04	U	1
m,p-Xylenes	179601-23-1	U	5.00	0.510	ug/L	09.14.13 17.04	U	1

Certificate of Analytical Results 470271

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-5** Matrix: Ground Water Date Received:09.13.13 10.30

Lab Sample Id: 470271-001 Date Collected: 09.12.13 15.40

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 09.14.13 08.03

Seq Number: 922734

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methyl acetate	79-20-9	U	10.0	0.260	ug/L	09.14.13 17.04	U	1
Methylcyclohexane	108-87-2	U	1.00	0.110	ug/L	09.14.13 17.04	U	1
Methylene chloride	75-09-2	U	5.00	0.420	ug/L	09.14.13 17.04	U	1
o-Xylene	95-47-6	U	5.00	0.200	ug/L	09.14.13 17.04	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	09.14.13 17.04	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	09.14.13 17.04	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	09.14.13 17.04	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	09.14.13 17.04	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	09.14.13 17.04	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	09.14.13 17.04	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	09.14.13 17.04	U	1
Vinyl chloride	75-01-4	U	2.00	0.190	ug/L	09.14.13 17.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	113	%	53-159	09.14.13 17.04	
4-Bromofluorobenzene	460-00-4	110	%	30-186	09.14.13 17.04	
Toluene-D8	2037-26-5	102	%	70-130	09.14.13 17.04	

Certificate of Analytical Results 470271

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-6** Matrix: Ground Water Date Received:09.13.13 10.30

Lab Sample Id: 470271-002 Date Collected: 09.12.13 15.25

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 09.14.13 08.03

Seq Number: 922734

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	09.14.13 16.37	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	09.14.13 16.37	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.00	0.110	ug/L	09.14.13 16.37	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	09.14.13 16.37	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	09.14.13 16.37	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	09.14.13 16.37	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	09.14.13 16.37	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	09.14.13 16.37	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	09.14.13 16.37	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.00	0.190	ug/L	09.14.13 16.37	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	09.14.13 16.37	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	09.14.13 16.37	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	09.14.13 16.37	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	09.14.13 16.37	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	09.14.13 16.37	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	09.14.13 16.37	U	1
2-Butanone (MEK)	78-93-3	U	50.0	0.280	ug/L	09.14.13 16.37	U	1
2-Hexanone	591-78-6	U	50.0	0.320	ug/L	09.14.13 16.37	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	50.0	0.260	ug/L	09.14.13 16.37	U	1
Acetone	67-64-1	U	50.0	0.350	ug/L	09.14.13 16.37	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	09.14.13 16.37	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	09.14.13 16.37	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	09.14.13 16.37	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	09.14.13 16.37	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	09.14.13 16.37	U	1
Carbon disulfide	75-15-0	U	50.0	0.260	ug/L	09.14.13 16.37	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	09.14.13 16.37	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	09.14.13 16.37	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	09.14.13 16.37	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	09.14.13 16.37	U	1
Chloromethane	74-87-3	U	3.00	0.250	ug/L	09.14.13 16.37	U	1
cis-1,2-Dichloroethene	156-59-2	**6.78**	1.00	0.210	ug/L	09.14.13 16.37		1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	09.14.13 16.37	U	1
Cyclohexane	110-82-7	U	1.00	0.150	ug/L	09.14.13 16.37	U	1
Dibromochloromethane	124-48-1	U	1.00	0.150	ug/L	09.14.13 16.37	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	09.14.13 16.37	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	09.14.13 16.37	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	09.14.13 16.37	U	1
m,p-Xylenes	179601-23-1	U	5.00	0.510	ug/L	09.14.13 16.37	U	1

Certificate of Analytical Results 470271

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-6** Matrix: Ground Water Date Received:09.13.13 10.30

Lab Sample Id: 470271-002 Date Collected: 09.12.13 15.25

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 09.14.13 08.03

Seq Number: 922734

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methyl acetate	79-20-9	U	10.0	0.260	ug/L	09.14.13 16.37	U	1
Methylcyclohexane	108-87-2	U	1.00	0.110	ug/L	09.14.13 16.37	U	1
Methylene chloride	75-09-2	U	5.00	0.420	ug/L	09.14.13 16.37	U	1
o-Xylene	95-47-6	U	5.00	0.200	ug/L	09.14.13 16.37	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	09.14.13 16.37	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	09.14.13 16.37	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	09.14.13 16.37	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	09.14.13 16.37	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	09.14.13 16.37	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	09.14.13 16.37	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	09.14.13 16.37	U	1
Vinyl chloride	75-01-4	**1.10**	2.00	0.190	ug/L	09.14.13 16.37	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	116	%	53-159	09.14.13 16.37	
4-Bromofluorobenzene	460-00-4	110	%	30-186	09.14.13 16.37	
Toluene-D8	2037-26-5	97	%	70-130	09.14.13 16.37	

Certificate of Analytical Results 470271

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-7** Matrix: Ground Water Date Received:09.13.13 10.30

Lab Sample Id: 470271-003 Date Collected: 09.12.13 15.50

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 09.14.13 08.03

Seq Number: 922734

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	09.14.13 16.10	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	09.14.13 16.10	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.00	0.110	ug/L	09.14.13 16.10	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	09.14.13 16.10	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	09.14.13 16.10	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	09.14.13 16.10	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	09.14.13 16.10	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	09.14.13 16.10	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	09.14.13 16.10	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.00	0.190	ug/L	09.14.13 16.10	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	09.14.13 16.10	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	09.14.13 16.10	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	09.14.13 16.10	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	09.14.13 16.10	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	09.14.13 16.10	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	09.14.13 16.10	U	1
2-Butanone (MEK)	78-93-3	U	50.0	0.280	ug/L	09.14.13 16.10	U	1
2-Hexanone	591-78-6	U	50.0	0.320	ug/L	09.14.13 16.10	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	50.0	0.260	ug/L	09.14.13 16.10	U	1
Acetone	67-64-1	U	50.0	0.350	ug/L	09.14.13 16.10	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	09.14.13 16.10	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	09.14.13 16.10	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	09.14.13 16.10	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	09.14.13 16.10	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	09.14.13 16.10	U	1
Carbon disulfide	75-15-0	U	50.0	0.260	ug/L	09.14.13 16.10	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	09.14.13 16.10	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	09.14.13 16.10	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	09.14.13 16.10	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	09.14.13 16.10	U	1
Chloromethane	74-87-3	U	3.00	0.250	ug/L	09.14.13 16.10	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	09.14.13 16.10	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	09.14.13 16.10	U	1
Cyclohexane	110-82-7	U	1.00	0.150	ug/L	09.14.13 16.10	U	1
Dibromochloromethane	124-48-1	U	1.00	0.150	ug/L	09.14.13 16.10	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	09.14.13 16.10	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	09.14.13 16.10	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	09.14.13 16.10	U	1
m,p-Xylenes	179601-23-1	U	5.00	0.510	ug/L	09.14.13 16.10	U	1

Certificate of Analytical Results 470271

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-7** Matrix: Ground Water Date Received:09.13.13 10.30

Lab Sample Id: 470271-003 Date Collected: 09.12.13 15.50

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 09.14.13 08.03

Seq Number: 922734

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methyl acetate	79-20-9	U	10.0	0.260	ug/L	09.14.13 16.10	U	1
Methylcyclohexane	108-87-2	U	1.00	0.110	ug/L	09.14.13 16.10	U	1
Methylene chloride	75-09-2	U	5.00	0.420	ug/L	09.14.13 16.10	U	1
o-Xylene	95-47-6	U	5.00	0.200	ug/L	09.14.13 16.10	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	09.14.13 16.10	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	09.14.13 16.10	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	09.14.13 16.10	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	09.14.13 16.10	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	09.14.13 16.10	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	09.14.13 16.10	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	09.14.13 16.10	U	1
Vinyl chloride	75-01-4	U	2.00	0.190	ug/L	09.14.13 16.10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	115	%	53-159	09.14.13 16.10	
4-Bromofluorobenzene	460-00-4	110	%	30-186	09.14.13 16.10	
Toluene-D8	2037-26-5	99	%	70-130	09.14.13 16.10	

Certificate of Analytical Results 470271

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **Trip Blank** Matrix: Water Date Received:09.13.13 10.30

Lab Sample Id: 470271-004 Date Collected: 09.12.13 00.00

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 09.14.13 08.03

Seq Number: 922734

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	09.14.13 15.43	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	09.14.13 15.43	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.00	0.110	ug/L	09.14.13 15.43	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	09.14.13 15.43	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	09.14.13 15.43	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	09.14.13 15.43	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	09.14.13 15.43	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	09.14.13 15.43	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	09.14.13 15.43	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.00	0.190	ug/L	09.14.13 15.43	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	09.14.13 15.43	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	09.14.13 15.43	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	09.14.13 15.43	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	09.14.13 15.43	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	09.14.13 15.43	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	09.14.13 15.43	U	1
2-Butanone (MEK)	78-93-3	U	50.0	0.280	ug/L	09.14.13 15.43	U	1
2-Hexanone	591-78-6	U	50.0	0.320	ug/L	09.14.13 15.43	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	50.0	0.260	ug/L	09.14.13 15.43	U	1
Acetone	67-64-1	U	50.0	0.350	ug/L	09.14.13 15.43	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	09.14.13 15.43	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	09.14.13 15.43	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	09.14.13 15.43	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	09.14.13 15.43	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	09.14.13 15.43	U	1
Carbon disulfide	75-15-0	U	50.0	0.260	ug/L	09.14.13 15.43	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	09.14.13 15.43	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	09.14.13 15.43	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	09.14.13 15.43	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	09.14.13 15.43	U	1
Chloromethane	74-87-3	U	3.00	0.250	ug/L	09.14.13 15.43	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	09.14.13 15.43	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	09.14.13 15.43	U	1
Cyclohexane	110-82-7	U	1.00	0.150	ug/L	09.14.13 15.43	U	1
Dibromochloromethane	124-48-1	U	1.00	0.150	ug/L	09.14.13 15.43	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	09.14.13 15.43	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	09.14.13 15.43	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	09.14.13 15.43	U	1
m,p-Xylenes	179601-23-1	U	5.00	0.510	ug/L	09.14.13 15.43	U	1

Certificate of Analytical Results 470271

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **Trip Blank** Matrix: Water Date Received:09.13.13 10.30

Lab Sample Id: 470271-004 Date Collected: 09.12.13 00.00

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 09.14.13 08.03

Seq Number: 922734

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methyl acetate	79-20-9	U	10.0	0.260	ug/L	09.14.13 15.43	U	1
Methylcyclohexane	108-87-2	U	1.00	0.110	ug/L	09.14.13 15.43	U	1
Methylene chloride	75-09-2	U	5.00	0.420	ug/L	09.14.13 15.43	U	1
o-Xylene	95-47-6	U	5.00	0.200	ug/L	09.14.13 15.43	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	09.14.13 15.43	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	09.14.13 15.43	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	09.14.13 15.43	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	09.14.13 15.43	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	09.14.13 15.43	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	09.14.13 15.43	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	09.14.13 15.43	U	1
Vinyl chloride	75-01-4	U	2.00	0.190	ug/L	09.14.13 15.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	111	%	53-159	09.14.13 15.43	
4-Bromofluorobenzene	460-00-4	114	%	30-186	09.14.13 15.43	
Toluene-D8	2037-26-5	101	%	70-130	09.14.13 15.43	

QC Summary 470271

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B
Seq Number: 922734 Matrix: Water Date Prep: 09.14.13
MB Sample Id: 643859-1-BLK LCS Sample Id: 643859-1-BKS LCSD Sample Id: 643859-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.160	50.0	56.0	112	54.2	108	65-130	3	20	ug/L	09.14.13 08:51	
1,1,2,2-Tetrachloroethane	<0.180	50.0	52.0	104	56.5	113	65-130	8	20	ug/L	09.14.13 08:51	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.110	50.0	51.9	104	49.6	99	65-130	5	20	ug/L	09.14.13 08:51	
1,1,2-Trichloroethane	<0.250	50.0	56.3	113	60.0	120	75-125	6	20	ug/L	09.14.13 08:51	
1,1-Dichloroethane	<0.110	50.0	47.0	94	44.8	90	70-135	5	20	ug/L	09.14.13 08:51	
1,1-Dichloroethene	<0.200	50.0	48.6	97	46.1	92	70-130	5	20	ug/L	09.14.13 08:51	
1,2,3-Trichlorobenzene	<0.250	50.0	48.9	98	51.1	102	55-140	4	20	ug/L	09.14.13 08:51	
1,2,4-Trichlorobenzene	<0.170	50.0	50.5	101	52.7	105	65-135	4	20	ug/L	09.14.13 08:51	
1,2,4-Trimethylbenzene	<0.140	50.0	54.7	109	58.0	116	75-130	6	20	ug/L	09.14.13 08:51	
1,2-Dibromo-3-chloropropane (DBCP)	<0.190	50.0	53.6	107	55.7	111	50-130	4	20	ug/L	09.14.13 08:51	
1,2-Dibromoethane (EDB)	<0.180	50.0	57.4	115	59.2	118	80-120	3	20	ug/L	09.14.13 08:51	
1,2-Dichlorobenzene	<0.140	50.0	52.3	105	55.1	110	70-120	5	20	ug/L	09.14.13 08:51	
1,2-Dichloroethane	<0.180	50.0	59.0	118	59.0	118	70-130	0	20	ug/L	09.14.13 08:51	
1,2-Dichloropropane	<0.150	50.0	50.6	101	53.3	107	75-125	5	20	ug/L	09.14.13 08:51	
1,3-Dichlorobenzene	<0.170	50.0	52.5	105	55.8	112	75-125	6	20	ug/L	09.14.13 08:51	
1,4-Dichlorobenzene	<0.170	50.0	51.4	103	55.2	110	75-125	7	20	ug/L	09.14.13 08:51	
2-Butanone (MEK)	<0.280	100	108	108	105	105	30-150	3	20	ug/L	09.14.13 08:51	
2-Hexanone	<0.320	100	130	130	128	128	55-130	2	20	ug/L	09.14.13 08:51	
4-Methyl-2-pentanone (MIBK)	<0.260	100	99.4	99	99.4	99	60-135	0	20	ug/L	09.14.13 08:51	
Acetone	<0.350	100	120	120	105	105	40-140	13	20	ug/L	09.14.13 08:51	
Benzene	<0.160	50.0	49.4	99	49.8	100	80-120	1	20	ug/L	09.14.13 08:51	
Bromochloromethane	<0.200	50.0	51.0	102	48.6	97	65-130	5	20	ug/L	09.14.13 08:51	
Bromodichloromethane	<0.250	50.0	59.1	118	58.7	117	75-120	1	20	ug/L	09.14.13 08:51	
Bromoform	<0.170	50.0	52.8	106	58.4	117	70-130	10	20	ug/L	09.14.13 08:51	
Bromomethane	<0.250	50.0	47.4	95	43.5	87	30-145	9	20	ug/L	09.14.13 08:51	
Carbon disulfide	<0.260	50.0	48.8	98	47.1	94	35-160	4	20	ug/L	09.14.13 08:51	
Carbon tetrachloride	<0.330	50.0	59.2	118	58.1	116	65-140	2	20	ug/L	09.14.13 08:51	
Chlorobenzene	<0.150	50.0	53.5	107	55.8	112	80-120	4	20	ug/L	09.14.13 08:51	
Chloroethane	<0.260	50.0	42.5	85	40.7	81	60-135	4	20	ug/L	09.14.13 08:51	
Chloroform	<0.160	50.0	52.1	104	49.4	99	65-135	5	20	ug/L	09.14.13 08:51	
Chloromethane	<0.250	50.0	41.0	82	38.8	78	40-125	6	20	ug/L	09.14.13 08:51	
cis-1,2-Dichloroethene	<0.210	50.0	47.2	94	44.7	89	70-125	5	20	ug/L	09.14.13 08:51	
cis-1,3-Dichloropropene	<0.100	50.0	60.3	121	64.4	129	70-130	7	20	ug/L	09.14.13 08:51	
Cyclohexane	<0.150	50.0	46.6	93	44.5	89	65-135	5	20	ug/L	09.14.13 08:51	
Dibromochloromethane	<0.150	50.0	62.1	124	65.5	131	60-135	5	20	ug/L	09.14.13 08:51	
Dichlorodifluoromethane	<0.220	50.0	53.3	107	49.6	99	30-155	7	20	ug/L	09.14.13 08:51	
Ethylbenzene	<0.190	50.0	55.7	111	57.8	116	75-125	4	20	ug/L	09.14.13 08:51	
Isopropylbenzene	<0.150	50.0	54.7	109	60.2	120	75-125	10	20	ug/L	09.14.13 08:51	
m,p-Xylenes	<0.510	100	105	105	110	110	75-130	5	20	ug/L	09.14.13 08:51	
Methyl acetate	<0.260	50.0	46.7	93	45.5	91	65-135	3	20	ug/L	09.14.13 08:51	
Methylcyclohexane	<0.110	50.0	52.9	106	50.3	101	65-135	5	20	ug/L	09.14.13 08:51	
Methylene chloride	<0.420	50.0	45.4	91	42.8	86	55-140	6	20	ug/L	09.14.13 08:51	
o-Xylene	<0.200	50.0	50.7	101	51.8	104	80-120	2	20	ug/L	09.14.13 08:51	
Styrene	<0.180	50.0	53.6	107	55.1	110	65-135	3	20	ug/L	09.14.13 08:51	
Tetrachloroethene	<0.160	50.0	54.8	110	58.6	117	45-150	7	20	ug/L	09.14.13 08:51	
Toluene	<0.140	50.0	54.3	109	57.9	116	75-120	6	20	ug/L	09.14.13 08:51	
trans-1,2-Dichloroethene	<0.210	50.0	46.0	92	43.7	87	60-140	5	20	ug/L	09.14.13 08:51	
trans-1,3-Dichloropropene	<0.110	50.0	62.7	125	64.7	129	55-140	3	20	ug/L	09.14.13 08:51	
Trichloroethene	<0.190	50.0	54.1	108	55.1	110	70-125	2	20	ug/L	09.14.13 08:51	
Trichlorofluoromethane	<0.530	50.0	59.2	118	56.9	114	60-145	4	20	ug/L	09.14.13 08:51	
Vinyl chloride	<0.190	50.0	41.5	83	39.5	79	50-145	5	20	ug/L	09.14.13 08:51	

QC Summary 470271

Mill Creek Environmental Services

Apex Village

Analytical Method:	**VOCs by SW-846 8260B**			Prep Method:	SW5030B
Seq Number:	922734	Matrix:	Water	Date Prep:	09.14.13
MB Sample Id:	643859-1-BLK	LCS Sample Id:	643859-1-BKS	LCSD Sample Id:	643859-1-BSD

Surrogate	**MB %Rec**	**MB Flag**	**LCS %Rec**	**LCS Flag**	**LCSD %Rec**	**LCSD Flag**	**Limits**	**Units**	**Analysis Date**
1,2-Dichloroethane-D4	102		106		102		53-159	%	09.14.13 08:51
4-Bromofluorobenzene	108		108		112		30-186	%	09.14.13 08:51
Toluene-D8	104		100		102		70-130	%	09.14.13 08:51

QC Summary 470271

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B
Seq Number: 922734 Matrix: Ground Water Date Prep: 09.14.13
Parent Sample Id: 469992-004 MS Sample Id: 469992-004 S MSD Sample Id: 469992-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.160	50.0	54.8	110	54.6	109	59-138	0	20	ug/L	09.14.13 19:20	
1,1,2,2-Tetrachloroethane	<0.180	50.0	57.7	115	58.6	117	63-126	2	20	ug/L	09.14.13 19:20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.110	50.0	47.1	94	47.1	94	53-138	0	20	ug/L	09.14.13 19:20	
1,1,2-Trichloroethane	<0.250	50.0	58.5	117	56.1	112	72-115	4	20	ug/L	09.14.13 19:20	X
1,1-Dichloroethane	<0.110	50.0	45.0	90	45.6	91	69-132	1	20	ug/L	09.14.13 19:20	
1,1-Dichloroethene	<0.200	50.0	44.9	90	46.2	92	62-131	3	20	ug/L	09.14.13 19:20	
1,2,3-Trichlorobenzene	<0.250	50.0	48.9	98	50.3	101	48-122	3	20	ug/L	09.14.13 19:20	
1,2,4-Trichlorobenzene	<0.170	50.0	48.3	97	49.5	99	34-131	2	20	ug/L	09.14.13 19:20	
1,2,4-Trimethylbenzene	<0.140	50.0	53.1	106	53.8	108	47-139	1	20	ug/L	09.14.13 19:20	
1,2-Dibromo-3-chloropropane (DBCP)	<0.190	50.0	55.6	111	56.4	113	53-121	1	20	ug/L	09.14.13 19:20	
1,2-Dibromoethane (EDB)	<0.180	50.0	63.0	126	63.5	127	66-125	1	20	ug/L	09.14.13 19:20	X
1,2-Dichlorobenzene	<0.140	50.0	52.8	106	52.3	105	58-124	1	20	ug/L	09.14.13 19:20	
1,2-Dichloroethane	<0.180	50.0	61.1	122	59.8	120	55-141	2	20	ug/L	09.14.13 19:20	
1,2-Dichloropropane	<0.150	50.0	51.1	102	51.2	102	78-121	0	20	ug/L	09.14.13 19:20	
1,3-Dichlorobenzene	<0.170	50.0	51.7	103	51.8	104	62-120	0	20	ug/L	09.14.13 19:20	
1,4-Dichlorobenzene	<0.170	50.0	51.0	102	50.5	101	64-114	1	20	ug/L	09.14.13 19:20	
2-Butanone (MEK)	<0.280	100	114	114	114	114	50-152	0	20	ug/L	09.14.13 19:20	
2-Hexanone	<0.320	100	131	131	129	129	55-136	2	20	ug/L	09.14.13 19:20	
4-Methyl-2-pentanone (MIBK)	<0.260	100	107	107	109	109	65-132	2	20	ug/L	09.14.13 19:20	
Acetone	<0.350	100	114	114	119	119	40-140	4	20	ug/L	09.14.13 19:20	
Benzene	<0.160	50.0	48.8	98	49.1	98	77-118	1	20	ug/L	09.14.13 19:20	
Bromochloromethane	<0.200	50.0	48.6	97	50.8	102	64-130	4	20	ug/L	09.14.13 19:20	
Bromodichloromethane	<0.250	50.0	57.1	114	57.9	116	68-125	1	20	ug/L	09.14.13 19:20	
Bromoform	<0.170	50.0	48.0	96	49.6	99	53-112	3	20	ug/L	09.14.13 19:20	
Bromomethane	<0.250	50.0	40.4	81	43.0	86	63-137	6	20	ug/L	09.14.13 19:20	
Carbon disulfide	<0.260	50.0	39.5	79	41.2	82	26-147	4	20	ug/L	09.14.13 19:20	
Carbon tetrachloride	<0.330	50.0	55.4	111	54.9	110	56-138	1	20	ug/L	09.14.13 19:20	
Chlorobenzene	<0.150	50.0	53.5	107	52.9	106	71-114	1	20	ug/L	09.14.13 19:20	
Chloroethane	<0.260	50.0	38.5	77	39.2	78	60-137	2	20	ug/L	09.14.13 19:20	
Chloroform	<0.160	50.0	51.5	103	52.0	104	65-131	1	20	ug/L	09.14.13 19:20	
Chloromethane	<0.250	50.0	40.8	82	41.0	82	48-151	0	20	ug/L	09.14.13 19:20	
cis-1,2-Dichloroethene	<0.210	50.0	43.5	87	45.2	90	22-185	4	20	ug/L	09.14.13 19:20	
cis-1,3-Dichloropropene	<0.100	50.0	53.8	108	54.0	108	67-113	0	20	ug/L	09.14.13 19:20	
Cyclohexane	<0.150	50.0	38.9	78	38.9	78	61-141	0	20	ug/L	09.14.13 19:20	
Dibromochloromethane	<0.150	50.0	61.0	122	59.7	119	53-125	2	20	ug/L	09.14.13 19:20	
Dichlorodifluoromethane	<0.220	50.0	47.2	94	47.5	95	38-145	1	20	ug/L	09.14.13 19:20	
Ethylbenzene	<0.190	50.0	56.5	113	55.0	110	66-127	3	20	ug/L	09.14.13 19:20	
Isopropylbenzene	<0.150	50.0	52.7	105	53.8	108	58-127	2	20	ug/L	09.14.13 19:20	
m,p-Xylenes	<0.510	100	105	105	103	103	65-126	2	20	ug/L	09.14.13 19:20	
Methyl acetate	<0.260	50.0	47.3	95	49.8	100	65-135	5	20	ug/L	09.14.13 19:20	
Methylcyclohexane	<0.110	50.0	45.2	90	46.6	93	64-128	3	20	ug/L	09.14.13 19:20	
Methylene chloride	<0.420	50.0	44.3	89	44.9	90	63-150	1	20	ug/L	09.14.13 19:20	
o-Xylene	<0.200	50.0	50.1	100	49.3	99	64-123	2	20	ug/L	09.14.13 19:20	
Styrene	<0.180	50.0	53.5	107	52.6	105	50-133	2	20	ug/L	09.14.13 19:20	
Tetrachloroethene	<0.160	50.0	54.2	108	54.0	108	52-125	0	20	ug/L	09.14.13 19:20	
Toluene	<0.140	50.0	55.8	112	54.3	109	65-123	3	20	ug/L	09.14.13 19:20	
trans-1,2-Dichloroethene	<0.210	50.0	42.2	84	44.1	88	65-135	4	20	ug/L	09.14.13 19:20	
trans-1,3-Dichloropropene	<0.110	50.0	62.5	125	59.9	120	50-125	4	20	ug/L	09.14.13 19:20	
Trichloroethene	<0.190	50.0	53.3	107	53.8	108	65-125	1	20	ug/L	09.14.13 19:20	
Trichlorofluoromethane	<0.530	50.0	53.3	107	54.9	110	51-145	3	20	ug/L	09.14.13 19:20	
Vinyl chloride	<0.190	50.0	39.7	79	40.7	81	52-140	2	20	ug/L	09.14.13 19:20	

QC Summary 470271

Mill Creek Environmental Services

Apex Village

Analytical Method:	**VOCs by SW-846 8260B**			Prep Method:	SW5030B
Seq Number:	922734	Matrix:	Ground Water	Date Prep:	09.14.13
Parent Sample Id:	469992-004	MS Sample Id:	469992-004 S	MSD Sample Id:	469992-004 SD

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	110		110		53-159	%	09.14.13 19:20
4-Bromofluorobenzene	106		108		30-186	%	09.14.13 19:20
Toluene-D8	102		102		70-130	%	09.14.13 19:20

WO #470271.

Chain of Custody Record

Page 1 of 1

Mill Creek Environmental Services, Inc.
1818 Perimeter Rd.
Dawsonville, GA 30534
Phone: 706-579-1607
Fax: 706-265-4916

MILL CREEK ENVIRONMENTAL SERVICES

Client: Apex Village	MCES Project #: AV-1301-7
Send Report To: Mill Creek Environmental Services, Inc. 1818 Perimeter Rd. Dawsonville, GA 30534 David Payne	davidmces@windstream.net
Attn: David Payne	Acct. #:
Phone: 706-579-1607	Shipping Method: FedEx
Fax: 706-265-4916	Airbill #:
Sampled By: David Payne	Signature: [signature]
Turnaround Time: (X) Standard ( ) Rush	

Requested Parameters

Sample ID	Date	Time	Grab (G) Comp. (C)	Matrix	VOC 8260									# and type of containers: HCL	$NaHSO_4$	H_2SO_4	NaOH	MeOH	None	Remarks
MW-5	9-12-13	1540	G	GW	X									3						
MW-6	↓	1525	G	GW	X									3						
MW-7	↓	1550	G	GW	X									3						

Comments:

Relinquished By: [signature]	Date: 9-12-13	Time: 1670	Received By: [signature] 9-13-13	Date:	Time: 10:30 2.1°C
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

MCESCOC

8/24/2013

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Mill Creek Environmental Services

Date/ Time Received: 09/13/2013 10:30:00 AM

Work Order #: 470271

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : #61

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	2.1	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6 *Custody Seals Signed and dated?	**N/A**	
#7 *Chain of Custody present?	**Yes**	
#8 Sample instructions complete on Chain of Custody?	**Yes**	
#9 Any missing/extra samples?	**No**	
#10 Chain of Custody signed when relinquished/ received?	**Yes**	
#11 Chain of Custody agrees with sample label(s)?	**Yes**	
#12 Container label(s) legible and intact?	**Yes**	
#13 Sample matrix/ properties agree with Chain of Custody?	**Yes**	
#14 Samples in proper container/ bottle?	**Yes**	
#15 Samples properly preserved?	**Yes**	
#16 Sample container(s) intact?	**Yes**	
#17 Sufficient sample amount for indicated test(s)?	**Yes**	
#18 All samples received within hold time?	**Yes**	
#19 Subcontract of sample(s)?	**No**	
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	**Yes**	
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	**N/A**	
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:

Checklist completed by: Dario Lagunas Date: 09/13/2013

Checklist reviewed by: Eben Buchanan Date: 09/15/2013

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

January 07, 2014

David Payne
Mill Creek Env Services
1818 Perimeter Road
Dawsonville GA 30534

TEL: (706) 579-1607
FAX: (706) 265-4916

RE: Apex Village

Dear David Payne: Order No: 1312F57

Analytical Environmental Services, Inc. received 8 samples on 12/18/2013 11:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Mirzeta Kararic

Mirzeta Kararic
Project Manager

Revision 1/7/2014

Chain of Custody Record

1312557

Page 1 of 1

AV-1301-9

Mill Creek Environmental Services, Inc.
1818 Perimeter Rd.
Dawsonville, GA 30534
Phone: 706-579-1607
Fax: 706-265-4916

ENVIRONMENTAL SERVICES

Client: Apex Village	MCES Project #: ~~AV-1301-7~~
Send Report To: Mill Creek Environmental Services, Inc. 1818 Perimeter Rd. Dawsonville, GA 30534	
Attn: David Payne	Acct. #:
Phone: 706-579-1607	Shipping Method: FedEx
Fax: 706-265-4916	Airbill #:
Sampled By: David Payne	Signature: David Payne
Turnaround Time: (X) Standard ( ) Rush	

Requested Parameters

Sample ID	Date	Time	Grab (G) Comp. (C)	Matrix	VOC 8260	Methane/Ethane/Ethene	Fe^{2+}	Cl, SO_4, NO_3/NO_4	SO_3	# and type of containers: HCL	$NaHSO_4$	H_2SO_4	NaOH	MeOH	None	Remarks
MW-1	12-17-13	0955	G	GW	X	X	X	X	X	4					3	Field PRESERVED WITH ICE
MW-2	12-17-13	1455	G	GW	X	X	X	X	X	4					3	
MW-3	12-17-13	1245	G	GW	X	X	X	X	X	4					3	
MW-4	12-17-13	1400	G	GW	X	X	X	X	X	4					3	
MW-5	12-17-13	1145	G	GW	X	X	X	X	X	4					3	
MW-6	12-17-13	1600	G	GW	X	X	X	X	X	4					3	
MW-7	12-17-13	1700	G	GW	X	X	X	X	X	4					3	
SW-1	12-17-13	1715	G	SW	X	X	X	X	X	2					0	

Comments:

Relinquished By: David Payne	Date: 12/17/13	Time: 1745	Received By: Jan B	Date: 12/18/13	Time: 11:30
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Analytical Environmental Services, Inc

Date: 7-Jan-14

Client: Mill Creek Env Services
Project: Apex Village
Lab ID: 1312F57

Case Narrative

Only vials were received for sample ID "SW-1." The sample was analyzed according to the sample container that was received.

Ferrous Iron Analysis by Method SM 3500 Fe2:

Sample 1312F57-001 was extracted and/or analyzed outside holding time of 24 hours. David Payne was notified via phone on 12/18/13 and we proceeded with analysis.

Samples for Sulfite analysis by Method 377.1 were received and analyzed outside Method specified holding time of immediate or 15 minutes.

Analytical Environmental Services, Inc **Date:** 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	MW-1
Project Name:	Apex Village	**Collection Date:**	12/17/2013 9:55:00 AM
Lab ID:	1312F57-001	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
1,1,1-Trichloroethane	BRL		0.40	5.0	ug/L	185106	1	12/20/2013 02:31	AK
1,1,2,2-Tetrachloroethane	BRL		0.18	5.0	ug/L	185106	1	12/20/2013 02:31	AK
1,1,2-Trichloroethane	BRL		0.38	5.0	ug/L	185106	1	12/20/2013 02:31	AK
1,1-Dichloroethane	BRL		0.19	5.0	ug/L	185106	1	12/20/2013 02:31	AK
1,1-Dichloroethene	BRL		0.79	5.0	ug/L	185106	1	12/20/2013 02:31	AK
1,2,4-Trichlorobenzene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 02:31	AK
1,2-Dibromo-3-chloropropane	BRL		0.78	5.0	ug/L	185106	1	12/20/2013 02:31	AK
1,2-Dibromoethane	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 02:31	AK
1,2-Dichlorobenzene	BRL		0.27	5.0	ug/L	185106	1	12/20/2013 02:31	AK
1,2-Dichloroethane	BRL		0.22	5.0	ug/L	185106	1	12/20/2013 02:31	AK
1,2-Dichloropropane	BRL		0.29	5.0	ug/L	185106	1	12/20/2013 02:31	AK
1,3-Dichlorobenzene	BRL		0.17	5.0	ug/L	185106	1	12/20/2013 02:31	AK
1,4-Dichlorobenzene	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 02:31	AK
2-Butanone	BRL		1.3	50	ug/L	185106	1	12/20/2013 02:31	AK
2-Hexanone	BRL		0.46	10	ug/L	185106	1	12/20/2013 02:31	AK
4-Methyl-2-pentanone	BRL		0.39	10	ug/L	185106	1	12/20/2013 02:31	AK
Acetone	BRL		2.0	50	ug/L	185106	1	12/20/2013 02:31	AK
Benzene	BRL		0.41	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Bromodichloromethane	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Bromoform	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Bromomethane	BRL		0.52	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Carbon disulfide	BRL		1.5	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Carbon tetrachloride	BRL		0.53	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Chlorobenzene	BRL		0.15	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Chloroethane	BRL		0.69	10	ug/L	185106	1	12/20/2013 02:31	AK
Chloroform	BRL		0.23	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Chloromethane	BRL		0.49	10	ug/L	185106	1	12/20/2013 02:31	AK
cis-1,2-Dichloroethene	BRL		0.31	5.0	ug/L	185106	1	12/20/2013 02:31	AK
cis-1,3-Dichloropropene	BRL		0.54	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Cyclohexane	BRL		0.25	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Dibromochloromethane	BRL		0.51	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Dichlorodifluoromethane	BRL		1.2	10	ug/L	185106	1	12/20/2013 02:31	AK
Ethylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Freon-113	BRL		0.77	10	ug/L	185106	1	12/20/2013 02:31	AK
Isopropylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 02:31	AK
m,p-Xylene	BRL		0.72	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Methyl acetate	BRL		0.62	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Methyl tert-butyl ether	BRL		0.35	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Methylcyclohexane	BRL		0.70	5.0	ug/L	185106	1	12/20/2013 02:31	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	MW-1
Project Name:	Apex Village	**Collection Date:**	12/17/2013 9:55:00 AM
Lab ID:	1312F57-001	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
Methylene chloride	BRL		2.3	5.0	ug/L	185106	1	12/20/2013 02:31	AK
o-Xylene	BRL		0.42	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Styrene	BRL		0.64	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Tetrachloroethene	BRL		0.47	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Toluene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 02:31	AK
trans-1,2-Dichloroethene	BRL		0.47	5.0	ug/L	185106	1	12/20/2013 02:31	AK
trans-1,3-Dichloropropene	BRL		0.56	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Trichloroethene	1.7	J	0.38	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Trichlorofluoromethane	BRL		1.1	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Vinyl chloride	BRL		0.69	2.0	ug/L	185106	1	12/20/2013 02:31	AK
Surr: 4-Bromofluorobenzene	88.2		0	66.2-120	%REC	185106	1	12/20/2013 02:31	AK
Surr: Dibromofluoromethane	105		0	79.5-121	%REC	185106	1	12/20/2013 02:31	AK
Surr: Toluene-d8	101		0	77-117	%REC	185106	1	12/20/2013 02:31	AK
Sulfite (E377.1/SM4500 SO3 B)									
Sulfite	BRL	H	2.00	2.00	mg/L	R258174	1	12/20/2013 09:00	KB
ION SCAN SW9056A									
Chloride	4.5		0.22	1.0	mg/L	R258324	1	12/18/2013 15:34	GR
Nitrate	0.84		0.14	0.25	mg/L	R258324	1	12/18/2013 15:34	GR
Nitrite	BRL		0.097	0.25	mg/L	R258324	1	12/18/2013 15:34	GR
Sulfate	BRL		0.22	1.0	mg/L	R258324	1	12/18/2013 15:34	GR
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**				
Ethane	BRL		2	9	ug/L	185199	1	12/23/2013 12:44	SH
Ethylene	BRL		1	7	ug/L	185199	1	12/23/2013 12:44	SH
Methane	BRL		1	4	ug/L	185199	1	12/23/2013 12:44	SH
Ferrous Iron SM3500-Fe-B									
Iron, as Ferrous (Fe+2)	BRL	H	0.012	0.100	mg/L	R258300	1	12/18/2013 12:45	AB

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	MW-2
Project Name:	Apex Village	**Collection Date:**	12/17/2013 2:55:00 PM
Lab ID:	1312F57-002	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
1,1,1-Trichloroethane	BRL		0.40	5.0	ug/L	185106	1	12/20/2013 03:00	AK
1,1,2,2-Tetrachloroethane	BRL		0.18	5.0	ug/L	185106	1	12/20/2013 03:00	AK
1,1,2-Trichloroethane	BRL		0.38	5.0	ug/L	185106	1	12/20/2013 03:00	AK
1,1-Dichloroethane	BRL		0.19	5.0	ug/L	185106	1	12/20/2013 03:00	AK
1,1-Dichloroethene	BRL		0.79	5.0	ug/L	185106	1	12/20/2013 03:00	AK
1,2,4-Trichlorobenzene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 03:00	AK
1,2-Dibromo-3-chloropropane	BRL		0.78	5.0	ug/L	185106	1	12/20/2013 03:00	AK
1,2-Dibromoethane	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 03:00	AK
1,2-Dichlorobenzene	BRL		0.27	5.0	ug/L	185106	1	12/20/2013 03:00	AK
1,2-Dichloroethane	BRL		0.22	5.0	ug/L	185106	1	12/20/2013 03:00	AK
1,2-Dichloropropane	BRL		0.29	5.0	ug/L	185106	1	12/20/2013 03:00	AK
1,3-Dichlorobenzene	BRL		0.17	5.0	ug/L	185106	1	12/20/2013 03:00	AK
1,4-Dichlorobenzene	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 03:00	AK
2-Butanone	BRL		1.3	50	ug/L	185106	1	12/20/2013 03:00	AK
2-Hexanone	BRL		0.46	10	ug/L	185106	1	12/20/2013 03:00	AK
4-Methyl-2-pentanone	BRL		0.39	10	ug/L	185106	1	12/20/2013 03:00	AK
Acetone	BRL		2.0	50	ug/L	185106	1	12/20/2013 03:00	AK
Benzene	BRL		0.41	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Bromodichloromethane	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Bromoform	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Bromomethane	BRL		0.52	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Carbon disulfide	BRL		1.5	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Carbon tetrachloride	BRL		0.53	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Chlorobenzene	BRL		0.15	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Chloroethane	BRL		0.69	10	ug/L	185106	1	12/20/2013 03:00	AK
Chloroform	BRL		0.23	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Chloromethane	BRL		0.49	10	ug/L	185106	1	12/20/2013 03:00	AK
cis-1,2-Dichloroethene	BRL		0.31	5.0	ug/L	185106	1	12/20/2013 03:00	AK
cis-1,3-Dichloropropene	BRL		0.54	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Cyclohexane	BRL		0.25	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Dibromochloromethane	BRL		0.51	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Dichlorodifluoromethane	BRL		1.2	10	ug/L	185106	1	12/20/2013 03:00	AK
Ethylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Freon-113	BRL		0.77	10	ug/L	185106	1	12/20/2013 03:00	AK
Isopropylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 03:00	AK
m,p-Xylene	BRL		0.72	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Methyl acetate	BRL		0.62	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Methyl tert-butyl ether	BRL		0.35	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Methylcyclohexane	BRL		0.70	5.0	ug/L	185106	1	12/20/2013 03:00	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	MW-2
Project Name:	Apex Village	**Collection Date:**	12/17/2013 2:55:00 PM
Lab ID:	1312F57-002	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
Methylene chloride	BRL		2.3	5.0	ug/L	185106	1	12/20/2013 03:00	AK
o-Xylene	BRL		0.42	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Styrene	BRL		0.64	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Tetrachloroethene	BRL		0.47	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Toluene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 03:00	AK
trans-1,2-Dichloroethene	BRL		0.47	5.0	ug/L	185106	1	12/20/2013 03:00	AK
trans-1,3-Dichloropropene	BRL		0.56	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Trichloroethene	3.4	J	0.38	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Trichlorofluoromethane	BRL		1.1	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Vinyl chloride	BRL		0.69	2.0	ug/L	185106	1	12/20/2013 03:00	AK
Surr: 4-Bromofluorobenzene	91.2		0	66.2-120	%REC	185106	1	12/20/2013 03:00	AK
Surr: Dibromofluoromethane	106		0	79.5-121	%REC	185106	1	12/20/2013 03:00	AK
Surr: Toluene-d8	94.8		0	77-117	%REC	185106	1	12/20/2013 03:00	AK
Sulfite (E377.1/SM4500 SO3 B)									
Sulfite	BRL	H	2.00	2.00	mg/L	R258174	1	12/20/2013 09:00	KB
ION SCAN SW9056A									
Chloride	3.5		0.22	1.0	mg/L	R258324	1	12/18/2013 15:49	GR
Nitrate	1.5		0.14	0.25	mg/L	R258324	1	12/18/2013 15:49	GR
Nitrite	BRL		0.097	0.25	mg/L	R258324	1	12/18/2013 15:49	GR
Sulfate	0.54	J	0.22	1.0	mg/L	R258324	1	12/18/2013 15:49	GR
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**				
Ethane	BRL		2	9	ug/L	185199	1	12/23/2013 12:50	SH
Ethylene	BRL		1	7	ug/L	185199	1	12/23/2013 12:50	SH
Methane	12		1	4	ug/L	185199	1	12/23/2013 12:50	SH
Ferrous Iron SM3500-Fe-B									
Iron, as Ferrous (Fe+2)	BRL		0.012	0.100	mg/L	R258300	1	12/18/2013 12:45	AB

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	MW-3
Project Name:	Apex Village	**Collection Date:**	12/17/2013 12:45:00 PM
Lab ID:	1312F57-003	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
1,1,1-Trichloroethane	BRL		0.40	5.0	ug/L	185106	1	12/20/2013 03:28	AK
1,1,2,2-Tetrachloroethane	BRL		0.18	5.0	ug/L	185106	1	12/20/2013 03:28	AK
1,1,2-Trichloroethane	BRL		0.38	5.0	ug/L	185106	1	12/20/2013 03:28	AK
1,1-Dichloroethane	BRL		0.19	5.0	ug/L	185106	1	12/20/2013 03:28	AK
1,1-Dichloroethene	BRL		0.79	5.0	ug/L	185106	1	12/20/2013 03:28	AK
1,2,4-Trichlorobenzene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 03:28	AK
1,2-Dibromo-3-chloropropane	BRL		0.78	5.0	ug/L	185106	1	12/20/2013 03:28	AK
1,2-Dibromoethane	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 03:28	AK
1,2-Dichlorobenzene	BRL		0.27	5.0	ug/L	185106	1	12/20/2013 03:28	AK
1,2-Dichloroethane	BRL		0.22	5.0	ug/L	185106	1	12/20/2013 03:28	AK
1,2-Dichloropropane	BRL		0.29	5.0	ug/L	185106	1	12/20/2013 03:28	AK
1,3-Dichlorobenzene	BRL		0.17	5.0	ug/L	185106	1	12/20/2013 03:28	AK
1,4-Dichlorobenzene	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 03:28	AK
2-Butanone	BRL		1.3	50	ug/L	185106	1	12/20/2013 03:28	AK
2-Hexanone	BRL		0.46	10	ug/L	185106	1	12/20/2013 03:28	AK
4-Methyl-2-pentanone	BRL		0.39	10	ug/L	185106	1	12/20/2013 03:28	AK
Acetone	BRL		2.0	50	ug/L	185106	1	12/20/2013 03:28	AK
Benzene	BRL		0.41	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Bromodichloromethane	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Bromoform	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Bromomethane	BRL		0.52	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Carbon disulfide	BRL		1.5	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Carbon tetrachloride	BRL		0.53	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Chlorobenzene	BRL		0.15	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Chloroethane	BRL		0.69	10	ug/L	185106	1	12/20/2013 03:28	AK
Chloroform	BRL		0.23	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Chloromethane	BRL		0.49	10	ug/L	185106	1	12/20/2013 03:28	AK
cis-1,2-Dichloroethene	BRL		0.31	5.0	ug/L	185106	1	12/20/2013 03:28	AK
cis-1,3-Dichloropropene	BRL		0.54	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Cyclohexane	BRL		0.25	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Dibromochloromethane	BRL		0.51	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Dichlorodifluoromethane	BRL		1.2	10	ug/L	185106	1	12/20/2013 03:28	AK
Ethylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Freon-113	BRL		0.77	10	ug/L	185106	1	12/20/2013 03:28	AK
Isopropylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 03:28	AK
m,p-Xylene	BRL		0.72	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Methyl acetate	BRL		0.62	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Methyl tert-butyl ether	BRL		0.35	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Methylcyclohexane	BRL		0.70	5.0	ug/L	185106	1	12/20/2013 03:28	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	MW-3
Project Name:	Apex Village	**Collection Date:**	12/17/2013 12:45:00 PM
Lab ID:	1312F57-003	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
Methylene chloride	BRL		2.3	5.0	ug/L	185106	1	12/20/2013 03:28	AK
o-Xylene	BRL		0.42	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Styrene	BRL		0.64	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Tetrachloroethene	6.4		0.47	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Toluene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 03:28	AK
trans-1,2-Dichloroethene	BRL		0.47	5.0	ug/L	185106	1	12/20/2013 03:28	AK
trans-1,3-Dichloropropene	BRL		0.56	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Trichloroethene	1.8	J	0.38	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Trichlorofluoromethane	BRL		1.1	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Vinyl chloride	BRL		0.69	2.0	ug/L	185106	1	12/20/2013 03:28	AK
Surr: 4-Bromofluorobenzene	88.7		0	66.2-120	%REC	185106	1	12/20/2013 03:28	AK
Surr: Dibromofluoromethane	105		0	79.5-121	%REC	185106	1	12/20/2013 03:28	AK
Surr: Toluene-d8	97.4		0	77-117	%REC	185106	1	12/20/2013 03:28	AK
Sulfite (E377.1/SM4500 SO3 B)									
Sulfite	BRL	H	2.00	2.00	mg/L	R258174	1	12/20/2013 09:00	KB
ION SCAN SW9056A									
Chloride	3.7		0.22	1.0	mg/L	R258324	1	12/18/2013 16:04	GR
Nitrate	2.1		0.14	0.25	mg/L	R258324	1	12/18/2013 16:04	GR
Nitrite	BRL		0.097	0.25	mg/L	R258324	1	12/18/2013 16:04	GR
Sulfate	BRL		0.22	1.0	mg/L	R258324	1	12/18/2013 16:04	GR
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**				
Ethane	BRL		2	9	ug/L	185199	1	12/23/2013 12:56	SH
Ethylene	BRL		1	7	ug/L	185199	1	12/23/2013 12:56	SH
Methane	9		1	4	ug/L	185199	1	12/23/2013 12:56	SH
Ferrous Iron SM3500-Fe-B									
Iron, as Ferrous (Fe+2)	BRL		0.012	0.100	mg/L	R258300	1	12/18/2013 12:45	AB

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc

Date: 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	MW-4
Project Name:	Apex Village	**Collection Date:**	12/17/2013 2:00:00 PM
Lab ID:	1312F57-004	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
1,1,1-Trichloroethane	BRL		0.40	5.0	ug/L	185106	1	12/20/2013 03:56	AK
1,1,2,2-Tetrachloroethane	BRL		0.18	5.0	ug/L	185106	1	12/20/2013 03:56	AK
1,1,2-Trichloroethane	BRL		0.38	5.0	ug/L	185106	1	12/20/2013 03:56	AK
1,1-Dichloroethane	BRL		0.19	5.0	ug/L	185106	1	12/20/2013 03:56	AK
1,1-Dichloroethene	BRL		0.79	5.0	ug/L	185106	1	12/20/2013 03:56	AK
1,2,4-Trichlorobenzene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 03:56	AK
1,2-Dibromo-3-chloropropane	BRL		0.78	5.0	ug/L	185106	1	12/20/2013 03:56	AK
1,2-Dibromoethane	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 03:56	AK
1,2-Dichlorobenzene	BRL		0.27	5.0	ug/L	185106	1	12/20/2013 03:56	AK
1,2-Dichloroethane	BRL		0.22	5.0	ug/L	185106	1	12/20/2013 03:56	AK
1,2-Dichloropropane	BRL		0.29	5.0	ug/L	185106	1	12/20/2013 03:56	AK
1,3-Dichlorobenzene	BRL		0.17	5.0	ug/L	185106	1	12/20/2013 03:56	AK
1,4-Dichlorobenzene	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 03:56	AK
2-Butanone	BRL		1.3	50	ug/L	185106	1	12/20/2013 03:56	AK
2-Hexanone	BRL		0.46	10	ug/L	185106	1	12/20/2013 03:56	AK
4-Methyl-2-pentanone	BRL		0.39	10	ug/L	185106	1	12/20/2013 03:56	AK
Acetone	BRL		2.0	50	ug/L	185106	1	12/20/2013 03:56	AK
Benzene	BRL		0.41	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Bromodichloromethane	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Bromoform	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Bromomethane	BRL		0.52	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Carbon disulfide	BRL		1.5	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Carbon tetrachloride	BRL		0.53	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Chlorobenzene	BRL		0.15	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Chloroethane	BRL		0.69	10	ug/L	185106	1	12/20/2013 03:56	AK
Chloroform	BRL		0.23	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Chloromethane	BRL		0.49	10	ug/L	185106	1	12/20/2013 03:56	AK
cis-1,2-Dichloroethene	BRL		0.31	5.0	ug/L	185106	1	12/20/2013 03:56	AK
cis-1,3-Dichloropropene	BRL		0.54	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Cyclohexane	BRL		0.25	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Dibromochloromethane	BRL		0.51	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Dichlorodifluoromethane	BRL		1.2	10	ug/L	185106	1	12/20/2013 03:56	AK
Ethylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Freon-113	BRL		0.77	10	ug/L	185106	1	12/20/2013 03:56	AK
Isopropylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 03:56	AK
m,p-Xylene	BRL		0.72	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Methyl acetate	BRL		0.62	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Methyl tert-butyl ether	BRL		0.35	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Methylcyclohexane	BRL		0.70	5.0	ug/L	185106	1	12/20/2013 03:56	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	MW-4
Project Name:	Apex Village	**Collection Date:**	12/17/2013 2:00:00 PM
Lab ID:	1312F57-004	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
Methylene chloride	BRL		2.3	5.0	ug/L	185106	1	12/20/2013 03:56	AK
o-Xylene	BRL		0.42	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Styrene	BRL		0.64	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Tetrachloroethene	2.1	J	0.47	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Toluene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 03:56	AK
trans-1,2-Dichloroethene	BRL		0.47	5.0	ug/L	185106	1	12/20/2013 03:56	AK
trans-1,3-Dichloropropene	BRL		0.56	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Trichloroethene	BRL		0.38	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Trichlorofluoromethane	BRL		1.1	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Vinyl chloride	BRL		0.69	2.0	ug/L	185106	1	12/20/2013 03:56	AK
Surr: 4-Bromofluorobenzene	91.9		0	66.2-120	%REC	185106	1	12/20/2013 03:56	AK
Surr: Dibromofluoromethane	104		0	79.5-121	%REC	185106	1	12/20/2013 03:56	AK
Surr: Toluene-d8	92.2		0	77-117	%REC	185106	1	12/20/2013 03:56	AK
Sulfite (E377.1/SM4500 SO3 B)									
Sulfite	BRL	H	2.00	2.00	mg/L	R258174	1	12/20/2013 09:00	KB
ION SCAN SW9056A									
Chloride	8.7		0.22	1.0	mg/L	R258324	1	12/18/2013 16:19	GR
Nitrate	2.0		0.14	0.25	mg/L	R258324	1	12/18/2013 16:19	GR
Nitrite	BRL		0.097	0.25	mg/L	R258324	1	12/18/2013 16:19	GR
Sulfate	0.57	J	0.22	1.0	mg/L	R258324	1	12/18/2013 16:19	GR
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**				
Ethane	BRL		2	9	ug/L	185199	1	12/23/2013 13:27	SH
Ethylene	BRL		1	7	ug/L	185199	1	12/23/2013 13:27	SH
Methane	BRL		1	4	ug/L	185199	1	12/23/2013 13:27	SH
Ferrous Iron SM3500-Fe-B									
Iron, as Ferrous (Fe+2)	BRL		0.012	0.100	mg/L	R258300	1	12/18/2013 12:45	AB

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc

Date: 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	MW-5
Project Name:	Apex Village	**Collection Date:**	12/17/2013 11:45:00 AM
Lab ID:	1312F57-005	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
1,1,1-Trichloroethane	BRL		0.40	5.0	ug/L	185106	1	12/20/2013 04:25	AK
1,1,2,2-Tetrachloroethane	BRL		0.18	5.0	ug/L	185106	1	12/20/2013 04:25	AK
1,1,2-Trichloroethane	BRL		0.38	5.0	ug/L	185106	1	12/20/2013 04:25	AK
1,1-Dichloroethane	BRL		0.19	5.0	ug/L	185106	1	12/20/2013 04:25	AK
1,1-Dichloroethene	BRL		0.79	5.0	ug/L	185106	1	12/20/2013 04:25	AK
1,2,4-Trichlorobenzene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 04:25	AK
1,2-Dibromo-3-chloropropane	BRL		0.78	5.0	ug/L	185106	1	12/20/2013 04:25	AK
1,2-Dibromoethane	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 04:25	AK
1,2-Dichlorobenzene	BRL		0.27	5.0	ug/L	185106	1	12/20/2013 04:25	AK
1,2-Dichloroethane	BRL		0.22	5.0	ug/L	185106	1	12/20/2013 04:25	AK
1,2-Dichloropropane	BRL		0.29	5.0	ug/L	185106	1	12/20/2013 04:25	AK
1,3-Dichlorobenzene	BRL		0.17	5.0	ug/L	185106	1	12/20/2013 04:25	AK
1,4-Dichlorobenzene	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 04:25	AK
2-Butanone	BRL		1.3	50	ug/L	185106	1	12/20/2013 04:25	AK
2-Hexanone	BRL		0.46	10	ug/L	185106	1	12/20/2013 04:25	AK
4-Methyl-2-pentanone	BRL		0.39	10	ug/L	185106	1	12/20/2013 04:25	AK
Acetone	BRL		2.0	50	ug/L	185106	1	12/20/2013 04:25	AK
Benzene	BRL		0.41	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Bromodichloromethane	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Bromoform	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Bromomethane	BRL		0.52	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Carbon disulfide	BRL		1.5	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Carbon tetrachloride	BRL		0.53	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Chlorobenzene	BRL		0.15	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Chloroethane	BRL		0.69	10	ug/L	185106	1	12/20/2013 04:25	AK
Chloroform	BRL		0.23	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Chloromethane	BRL		0.49	10	ug/L	185106	1	12/20/2013 04:25	AK
cis-1,2-Dichloroethene	BRL		0.31	5.0	ug/L	185106	1	12/20/2013 04:25	AK
cis-1,3-Dichloropropene	BRL		0.54	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Cyclohexane	BRL		0.25	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Dibromochloromethane	BRL		0.51	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Dichlorodifluoromethane	BRL		1.2	10	ug/L	185106	1	12/20/2013 04:25	AK
Ethylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Freon-113	BRL		0.77	10	ug/L	185106	1	12/20/2013 04:25	AK
Isopropylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 04:25	AK
m,p-Xylene	BRL		0.72	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Methyl acetate	BRL		0.62	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Methyl tert-butyl ether	BRL		0.35	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Methylcyclohexane	BRL		0.70	5.0	ug/L	185106	1	12/20/2013 04:25	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	MW-5
Project Name:	Apex Village	**Collection Date:**	12/17/2013 11:45:00 AM
Lab ID:	1312F57-005	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
Methylene chloride	BRL		2.3	5.0	ug/L	185106	1	12/20/2013 04:25	AK
o-Xylene	BRL		0.42	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Styrene	BRL		0.64	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Tetrachloroethene	BRL		0.47	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Toluene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 04:25	AK
trans-1,2-Dichloroethene	BRL		0.47	5.0	ug/L	185106	1	12/20/2013 04:25	AK
trans-1,3-Dichloropropene	BRL		0.56	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Trichloroethene	BRL		0.38	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Trichlorofluoromethane	BRL		1.1	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Vinyl chloride	BRL		0.69	2.0	ug/L	185106	1	12/20/2013 04:25	AK
Surr: 4-Bromofluorobenzene	90		0	66.2-120	%REC	185106	1	12/20/2013 04:25	AK
Surr: Dibromofluoromethane	107		0	79.5-121	%REC	185106	1	12/20/2013 04:25	AK
Surr: Toluene-d8	93.6		0	77-117	%REC	185106	1	12/20/2013 04:25	AK
Sulfite (E377.1/SM4500 SO3 B)									
Sulfite	BRL	H	2.00	2.00	mg/L	R258174	1	12/20/2013 09:00	KB
ION SCAN SW9056A									
Chloride	11		0.22	1.0	mg/L	R258235	1	12/18/2013 15:55	GR
Nitrate	BRL		0.14	0.25	mg/L	R258235	1	12/18/2013 15:55	GR
Nitrite	BRL		0.097	0.25	mg/L	R258235	1	12/18/2013 15:55	GR
Sulfate	5.6		0.22	1.0	mg/L	R258405	1	12/20/2013 22:53	GR
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**				
Ethane	BRL		2	9	ug/L	185199	1	12/23/2013 13:36	SH
Ethylene	BRL		1	7	ug/L	185199	1	12/23/2013 13:36	SH
Methane	8700		140	400	ug/L	185199	100	12/23/2013 13:45	SH
Ferrous Iron SM3500-Fe-B									
Iron, as Ferrous (Fe+2)	41.1	H	0.298	2.50	mg/L	R258300	25	12/18/2013 12:45	AB

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc

Date: 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	MW-6
Project Name:	Apex Village	**Collection Date:**	12/17/2013 4:00:00 PM
Lab ID:	1312F57-006	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
1,1,1-Trichloroethane	BRL		0.40	5.0	ug/L	185106	1	12/20/2013 04:53	AK
1,1,2,2-Tetrachloroethane	BRL		0.18	5.0	ug/L	185106	1	12/20/2013 04:53	AK
1,1,2-Trichloroethane	BRL		0.38	5.0	ug/L	185106	1	12/20/2013 04:53	AK
1,1-Dichloroethane	BRL		0.19	5.0	ug/L	185106	1	12/20/2013 04:53	AK
1,1-Dichloroethene	BRL		0.79	5.0	ug/L	185106	1	12/20/2013 04:53	AK
1,2,4-Trichlorobenzene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 04:53	AK
1,2-Dibromo-3-chloropropane	BRL		0.78	5.0	ug/L	185106	1	12/20/2013 04:53	AK
1,2-Dibromoethane	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 04:53	AK
1,2-Dichlorobenzene	BRL		0.27	5.0	ug/L	185106	1	12/20/2013 04:53	AK
1,2-Dichloroethane	BRL		0.22	5.0	ug/L	185106	1	12/20/2013 04:53	AK
1,2-Dichloropropane	BRL		0.29	5.0	ug/L	185106	1	12/20/2013 04:53	AK
1,3-Dichlorobenzene	BRL		0.17	5.0	ug/L	185106	1	12/20/2013 04:53	AK
1,4-Dichlorobenzene	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 04:53	AK
2-Butanone	BRL		1.3	50	ug/L	185106	1	12/20/2013 04:53	AK
2-Hexanone	BRL		0.46	10	ug/L	185106	1	12/20/2013 04:53	AK
4-Methyl-2-pentanone	BRL		0.39	10	ug/L	185106	1	12/20/2013 04:53	AK
Acetone	BRL		2.0	50	ug/L	185106	1	12/20/2013 04:53	AK
Benzene	BRL		0.41	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Bromodichloromethane	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Bromoform	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Bromomethane	BRL		0.52	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Carbon disulfide	BRL		1.5	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Carbon tetrachloride	BRL		0.53	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Chlorobenzene	BRL		0.15	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Chloroethane	BRL		0.69	10	ug/L	185106	1	12/20/2013 04:53	AK
Chloroform	BRL		0.23	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Chloromethane	BRL		0.49	10	ug/L	185106	1	12/20/2013 04:53	AK
cis-1,2-Dichloroethene	BRL		0.31	5.0	ug/L	185106	1	12/20/2013 04:53	AK
cis-1,3-Dichloropropene	BRL		0.54	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Cyclohexane	BRL		0.25	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Dibromochloromethane	BRL		0.51	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Dichlorodifluoromethane	BRL		1.2	10	ug/L	185106	1	12/20/2013 04:53	AK
Ethylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Freon-113	BRL		0.77	10	ug/L	185106	1	12/20/2013 04:53	AK
Isopropylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 04:53	AK
m,p-Xylene	BRL		0.72	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Methyl acetate	BRL		0.62	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Methyl tert-butyl ether	BRL		0.35	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Methylcyclohexane	BRL		0.70	5.0	ug/L	185106	1	12/20/2013 04:53	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	MW-6
Project Name:	Apex Village	**Collection Date:**	12/17/2013 4:00:00 PM
Lab ID:	1312F57-006	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
Methylene chloride	BRL		2.3	5.0	ug/L	185106	1	12/20/2013 04:53	AK
o-Xylene	BRL		0.42	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Styrene	BRL		0.64	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Tetrachloroethene	BRL		0.47	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Toluene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 04:53	AK
trans-1,2-Dichloroethene	BRL		0.47	5.0	ug/L	185106	1	12/20/2013 04:53	AK
trans-1,3-Dichloropropene	BRL		0.56	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Trichloroethene	BRL		0.38	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Trichlorofluoromethane	BRL		1.1	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Vinyl chloride	BRL		0.69	2.0	ug/L	185106	1	12/20/2013 04:53	AK
Surr: 4-Bromofluorobenzene	89.7		0	66.2-120	%REC	185106	1	12/20/2013 04:53	AK
Surr: Dibromofluoromethane	109		0	79.5-121	%REC	185106	1	12/20/2013 04:53	AK
Surr: Toluene-d8	105		0	77-117	%REC	185106	1	12/20/2013 04:53	AK
Sulfite (E377.1/SM4500 SO3 B)									
Sulfite	BRL	H	2.00	2.00	mg/L	R258174	1	12/20/2013 09:00	KB
ION SCAN SW9056A									
Chloride	10		0.22	1.0	mg/L	R258235	1	12/18/2013 16:10	GR
Nitrate	BRL		0.14	0.25	mg/L	R258235	1	12/18/2013 16:10	GR
Nitrite	BRL		0.097	0.25	mg/L	R258235	1	12/18/2013 16:10	GR
Sulfate	1.3		0.22	1.0	mg/L	R258405	1	12/20/2013 19:12	GR
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**				
Ethane	BRL		2	9	ug/L	185199	1	12/23/2013 13:41	SH
Ethylene	BRL		1	7	ug/L	185199	1	12/23/2013 13:41	SH
Methane	830		14	40	ug/L	185199	10	12/23/2013 13:50	SH
Ferrous Iron SM3500-Fe-B									
Iron, as Ferrous (Fe+2)	24.6		0.298	2.50	mg/L	R258300	25	12/18/2013 12:45	AB

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	MW-7
Project Name:	Apex Village	**Collection Date:**	12/17/2013 5:00:00 PM
Lab ID:	1312F57-007	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
1,1,1-Trichloroethane	BRL		0.40	5.0	ug/L	185106	1	12/20/2013 05:22	AK
1,1,2,2-Tetrachloroethane	BRL		0.18	5.0	ug/L	185106	1	12/20/2013 05:22	AK
1,1,2-Trichloroethane	BRL		0.38	5.0	ug/L	185106	1	12/20/2013 05:22	AK
1,1-Dichloroethane	BRL		0.19	5.0	ug/L	185106	1	12/20/2013 05:22	AK
1,1-Dichloroethene	BRL		0.79	5.0	ug/L	185106	1	12/20/2013 05:22	AK
1,2,4-Trichlorobenzene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 05:22	AK
1,2-Dibromo-3-chloropropane	BRL		0.78	5.0	ug/L	185106	1	12/20/2013 05:22	AK
1,2-Dibromoethane	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 05:22	AK
1,2-Dichlorobenzene	BRL		0.27	5.0	ug/L	185106	1	12/20/2013 05:22	AK
1,2-Dichloroethane	BRL		0.22	5.0	ug/L	185106	1	12/20/2013 05:22	AK
1,2-Dichloropropane	BRL		0.29	5.0	ug/L	185106	1	12/20/2013 05:22	AK
1,3-Dichlorobenzene	BRL		0.17	5.0	ug/L	185106	1	12/20/2013 05:22	AK
1,4-Dichlorobenzene	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 05:22	AK
2-Butanone	BRL		1.3	50	ug/L	185106	1	12/20/2013 05:22	AK
2-Hexanone	BRL		0.46	10	ug/L	185106	1	12/20/2013 05:22	AK
4-Methyl-2-pentanone	BRL		0.39	10	ug/L	185106	1	12/20/2013 05:22	AK
Acetone	BRL		2.0	50	ug/L	185106	1	12/20/2013 05:22	AK
Benzene	BRL		0.41	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Bromodichloromethane	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Bromoform	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Bromomethane	BRL		0.52	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Carbon disulfide	BRL		1.5	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Carbon tetrachloride	BRL		0.53	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Chlorobenzene	BRL		0.15	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Chloroethane	BRL		0.69	10	ug/L	185106	1	12/20/2013 05:22	AK
Chloroform	BRL		0.23	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Chloromethane	BRL		0.49	10	ug/L	185106	1	12/20/2013 05:22	AK
cis-1,2-Dichloroethene	BRL		0.31	5.0	ug/L	185106	1	12/20/2013 05:22	AK
cis-1,3-Dichloropropene	BRL		0.54	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Cyclohexane	BRL		0.25	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Dibromochloromethane	BRL		0.51	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Dichlorodifluoromethane	BRL		1.2	10	ug/L	185106	1	12/20/2013 05:22	AK
Ethylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Freon-113	BRL		0.77	10	ug/L	185106	1	12/20/2013 05:22	AK
Isopropylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 05:22	AK
m,p-Xylene	BRL		0.72	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Methyl acetate	BRL		0.62	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Methyl tert-butyl ether	BRL		0.35	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Methylcyclohexane	BRL		0.70	5.0	ug/L	185106	1	12/20/2013 05:22	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	MW-7
Project Name:	Apex Village	**Collection Date:**	12/17/2013 5:00:00 PM
Lab ID:	1312F57-007	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
Methylene chloride	BRL		2.3	5.0	ug/L	185106	1	12/20/2013 05:22	AK
o-Xylene	BRL		0.42	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Styrene	BRL		0.64	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Tetrachloroethene	BRL		0.47	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Toluene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 05:22	AK
trans-1,2-Dichloroethene	BRL		0.47	5.0	ug/L	185106	1	12/20/2013 05:22	AK
trans-1,3-Dichloropropene	BRL		0.56	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Trichloroethene	BRL		0.38	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Trichlorofluoromethane	BRL		1.1	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Vinyl chloride	BRL		0.69	2.0	ug/L	185106	1	12/20/2013 05:22	AK
Surr: 4-Bromofluorobenzene	89.2		0	66.2-120	%REC	185106	1	12/20/2013 05:22	AK
Surr: Dibromofluoromethane	103		0	79.5-121	%REC	185106	1	12/20/2013 05:22	AK
Surr: Toluene-d8	95.6		0	77-117	%REC	185106	1	12/20/2013 05:22	AK
Sulfite (E377.1/SM4500 SO3 B)									
Sulfite	BRL	H	2.00	2.00	mg/L	R258174	1	12/20/2013 09:00	KB
ION SCAN SW9056A									
Chloride	11		0.22	1.0	mg/L	R258235	1	12/18/2013 16:25	GR
Nitrate	BRL		0.14	0.25	mg/L	R258235	1	12/18/2013 16:25	GR
Nitrite	BRL		0.097	0.25	mg/L	R258235	1	12/18/2013 16:25	GR
Sulfate	37		0.22	1.0	mg/L	R258405	1	12/20/2013 19:27	GR
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**				
Ethane	BRL		2	9	ug/L	185199	1	12/23/2013 14:35	SH
Ethylene	BRL		1	7	ug/L	185199	1	12/23/2013 14:35	SH
Methane	160		1	4	ug/L	185199	1	12/23/2013 14:35	SH
Ferrous Iron SM3500-Fe-B									
Iron, as Ferrous (Fe+2)	0.239		0.012	0.100	mg/L	R258300	1	12/18/2013 12:45	AB

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc

Date: 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	SW-1
Project Name:	Apex Village	**Collection Date:**	12/17/2013 5:15:00 PM
Lab ID:	1312F57-008	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
1,1,1-Trichloroethane	BRL		0.40	5.0	ug/L	185106	1	12/20/2013 05:50	AK
1,1,2,2-Tetrachloroethane	BRL		0.18	5.0	ug/L	185106	1	12/20/2013 05:50	AK
1,1,2-Trichloroethane	BRL		0.38	5.0	ug/L	185106	1	12/20/2013 05:50	AK
1,1-Dichloroethane	BRL		0.19	5.0	ug/L	185106	1	12/20/2013 05:50	AK
1,1-Dichloroethene	BRL		0.79	5.0	ug/L	185106	1	12/20/2013 05:50	AK
1,2,4-Trichlorobenzene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 05:50	AK
1,2-Dibromo-3-chloropropane	BRL		0.78	5.0	ug/L	185106	1	12/20/2013 05:50	AK
1,2-Dibromoethane	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 05:50	AK
1,2-Dichlorobenzene	BRL		0.27	5.0	ug/L	185106	1	12/20/2013 05:50	AK
1,2-Dichloroethane	BRL		0.22	5.0	ug/L	185106	1	12/20/2013 05:50	AK
1,2-Dichloropropane	BRL		0.29	5.0	ug/L	185106	1	12/20/2013 05:50	AK
1,3-Dichlorobenzene	BRL		0.17	5.0	ug/L	185106	1	12/20/2013 05:50	AK
1,4-Dichlorobenzene	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 05:50	AK
2-Butanone	BRL		1.3	50	ug/L	185106	1	12/20/2013 05:50	AK
2-Hexanone	BRL		0.46	10	ug/L	185106	1	12/20/2013 05:50	AK
4-Methyl-2-pentanone	BRL		0.39	10	ug/L	185106	1	12/20/2013 05:50	AK
Acetone	BRL		2.0	50	ug/L	185106	1	12/20/2013 05:50	AK
Benzene	BRL		0.41	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Bromodichloromethane	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Bromoform	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Bromomethane	BRL		0.52	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Carbon disulfide	BRL		1.5	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Carbon tetrachloride	BRL		0.53	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Chlorobenzene	BRL		0.15	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Chloroethane	BRL		0.69	10	ug/L	185106	1	12/20/2013 05:50	AK
Chloroform	BRL		0.23	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Chloromethane	BRL		0.49	10	ug/L	185106	1	12/20/2013 05:50	AK
cis-1,2-Dichloroethene	BRL		0.31	5.0	ug/L	185106	1	12/20/2013 05:50	AK
cis-1,3-Dichloropropene	BRL		0.54	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Cyclohexane	BRL		0.25	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Dibromochloromethane	BRL		0.51	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Dichlorodifluoromethane	BRL		1.2	10	ug/L	185106	1	12/20/2013 05:50	AK
Ethylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Freon-113	BRL		0.77	10	ug/L	185106	1	12/20/2013 05:50	AK
Isopropylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 05:50	AK
m,p-Xylene	BRL		0.72	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Methyl acetate	BRL		0.62	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Methyl tert-butyl ether	BRL		0.35	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Methylcyclohexane	BRL		0.70	5.0	ug/L	185106	1	12/20/2013 05:50	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	SW-1
Project Name:	Apex Village	**Collection Date:**	12/17/2013 5:15:00 PM
Lab ID:	1312F57-008	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
Methylene chloride	BRL		2.3	5.0	ug/L	185106	1	12/20/2013 05:50	AK
o-Xylene	BRL		0.42	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Styrene	BRL		0.64	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Tetrachloroethene	BRL		0.47	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Toluene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 05:50	AK
trans-1,2-Dichloroethene	BRL		0.47	5.0	ug/L	185106	1	12/20/2013 05:50	AK
trans-1,3-Dichloropropene	BRL		0.56	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Trichloroethene	BRL		0.38	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Trichlorofluoromethane	BRL		1.1	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Vinyl chloride	BRL		0.69	2.0	ug/L	185106	1	12/20/2013 05:50	AK
Surr: 4-Bromofluorobenzene	91.3		0	66.2-120	%REC	185106	1	12/20/2013 05:50	AK
Surr: Dibromofluoromethane	104		0	79.5-121	%REC	185106	1	12/20/2013 05:50	AK
Surr: Toluene-d8	97.1		0	77-117	%REC	185106	1	12/20/2013 05:50	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Mill Work Order Number 1312F57

Checklist completed by [signature] 12/18/13
Signature Date

Carrier name: FedEx ✓ UPS __ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ✓ No __

Cooler #1 3.1° Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ tmj initials No ✓

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ tmj No ✓

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted __ Yes ✓ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by MJ

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Client: Mill Creek Env Services
Project: Apex Village
Lab Order: 1312F57

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1312F57-001A	MW-1	12/17/2013 9:55:00AM	Groundwater	GC Analysis of Gaseous Samples		12/23/2013	12/23/2013
1312F57-001B	MW-1	12/17/2013 9:55:00AM	Groundwater	TCL VOLATILE ORGANICS		12/19/2013	12/20/2013
1312F57-001C	MW-1	12/17/2013 9:55:00AM	Groundwater	Ferrous Iron			12/18/2013
1312F57-001D	MW-1	12/17/2013 9:55:00AM	Groundwater	ION SCAN			12/18/2013
1312F57-001E	MW-1	12/17/2013 9:55:00AM	Groundwater	SULFITE			12/20/2013
1312F57-002A	MW-2	12/17/2013 2:55:00PM	Groundwater	GC Analysis of Gaseous Samples		12/23/2013	12/23/2013
1312F57-002B	MW-2	12/17/2013 2:55:00PM	Groundwater	TCL VOLATILE ORGANICS		12/19/2013	12/20/2013
1312F57-002C	MW-2	12/17/2013 2:55:00PM	Groundwater	Ferrous Iron			12/18/2013
1312F57-002D	MW-2	12/17/2013 2:55:00PM	Groundwater	ION SCAN			12/18/2013
1312F57-002E	MW-2	12/17/2013 2:55:00PM	Groundwater	SULFITE			12/20/2013
1312F57-003A	MW-3	12/17/2013 12:45:00PM	Groundwater	GC Analysis of Gaseous Samples		12/23/2013	12/23/2013
1312F57-003B	MW-3	12/17/2013 12:45:00PM	Groundwater	TCL VOLATILE ORGANICS		12/19/2013	12/20/2013
1312F57-003C	MW-3	12/17/2013 12:45:00PM	Groundwater	Ferrous Iron			12/18/2013
1312F57-003D	MW-3	12/17/2013 12:45:00PM	Groundwater	ION SCAN			12/18/2013
1312F57-003E	MW-3	12/17/2013 12:45:00PM	Groundwater	SULFITE			12/20/2013
1312F57-004A	MW-4	12/17/2013 2:00:00PM	Groundwater	GC Analysis of Gaseous Samples		12/23/2013	12/23/2013
1312F57-004B	MW-4	12/17/2013 2:00:00PM	Groundwater	TCL VOLATILE ORGANICS		12/19/2013	12/20/2013
1312F57-004C	MW-4	12/17/2013 2:00:00PM	Groundwater	Ferrous Iron			12/18/2013
1312F57-004D	MW-4	12/17/2013 2:00:00PM	Groundwater	ION SCAN			12/18/2013
1312F57-004E	MW-4	12/17/2013 2:00:00PM	Groundwater	SULFITE			12/20/2013
1312F57-005A	MW-5	12/17/2013 11:45:00AM	Groundwater	GC Analysis of Gaseous Samples		12/23/2013	12/23/2013
1312F57-005B	MW-5	12/17/2013 11:45:00AM	Groundwater	TCL VOLATILE ORGANICS		12/19/2013	12/20/2013
1312F57-005C	MW-5	12/17/2013 11:45:00AM	Groundwater	Ferrous Iron			12/18/2013
1312F57-005D	MW-5	12/17/2013 11:45:00AM	Groundwater	ION SCAN			12/18/2013
1312F57-005D	MW-5	12/17/2013 11:45:00AM	Groundwater	ION SCAN			12/20/2013
1312F57-005E	MW-5	12/17/2013 11:45:00AM	Groundwater	SULFITE			12/20/2013
1312F57-006A	MW-6	12/17/2013 4:00:00PM	Groundwater	GC Analysis of Gaseous Samples		12/23/2013	12/23/2013
1312F57-006B	MW-6	12/17/2013 4:00:00PM	Groundwater	TCL VOLATILE ORGANICS		12/19/2013	12/20/2013
1312F57-006C	MW-6	12/17/2013 4:00:00PM	Groundwater	Ferrous Iron			12/18/2013

Client: Mill Creek Env Services
Project: Apex Village
Lab Order: 1312F57

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1312F57-006D	MW-6	12/17/2013 4:00:00PM	Groundwater	ION SCAN			12/18/2013
1312F57-006D	MW-6	12/17/2013 4:00:00PM	Groundwater	ION SCAN			12/20/2013
1312F57-006E	MW-6	12/17/2013 4:00:00PM	Groundwater	SULFITE			12/20/2013
1312F57-007A	MW-7	12/17/2013 5:00:00PM	Groundwater	GC Analysis of Gaseous Samples		12/23/2013	12/23/2013
1312F57-007B	MW-7	12/17/2013 5:00:00PM	Groundwater	TCL VOLATILE ORGANICS		12/19/2013	12/20/2013
1312F57-007C	MW-7	12/17/2013 5:00:00PM	Groundwater	Ferrous Iron			12/18/2013
1312F57-007D	MW-7	12/17/2013 5:00:00PM	Groundwater	ION SCAN			12/18/2013
1312F57-007D	MW-7	12/17/2013 5:00:00PM	Groundwater	ION SCAN			12/20/2013
1312F57-007E	MW-7	12/17/2013 5:00:00PM	Groundwater	SULFITE			12/20/2013
1312F57-008A	SW-1	12/17/2013 5:15:00PM	Surface Water	TCL VOLATILE ORGANICS		12/19/2013	12/20/2013

Client: Mill Creek Env Services
Project Name: Apex Village
Workorder: 1312F57

ANALYTICAL QC SUMMARY REPORT

BatchID: 185106

Sample ID: **MB-185106** Client ID: Units: **ug/L** Prep Date: **12/19/2013** Run No: **258162**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **185106** Analysis Date: **12/19/2013** Seq No: **5424679**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Mill Creek Env Services
Project Name: Apex Village
Workorder: 1312F57

ANALYTICAL QC SUMMARY REPORT

BatchID: 185106

Sample ID: **MB-185106** Client ID: Units: **ug/L** Prep Date: **12/19/2013** Run No: **258162**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **185106** Analysis Date: **12/19/2013** Seq No: **5424679**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	2.200	5.0									J
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	47.32	0	50.00		94.6	66.2	120				
Surr: Dibromofluoromethane	51.08	0	50.00		102	79.5	121				
Surr: Toluene-d8	46.90	0	50.00		93.8	77	117				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Mill Creek Env Services
Project Name: Apex Village
Workorder: 1312F57

ANALYTICAL QC SUMMARY REPORT

BatchID: 185106

Sample ID: **LCS-185106** Client ID: Units: **ug/L** Prep Date: **12/19/2013** Run No: **258162**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **185106** Analysis Date: **12/19/2013** Seq No: **5424681**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	53.31	5.0	50.00		107	63.1	140				
Benzene	46.50	5.0	50.00		93.0	74.2	129				
Chlorobenzene	53.86	5.0	50.00		108	70	129				
Toluene	52.31	5.0	50.00		105	74.2	129				
Trichloroethene	58.88	5.0	50.00	2.200	113	71.2	135				
Surr: 4-Bromofluorobenzene	53.12	0	50.00		106	66.2	120				
Surr: Dibromofluoromethane	54.61	0	50.00		109	79.5	121				
Surr: Toluene-d8	50.59	0	50.00		101	77	117				

Sample ID: **1312G30-003AMS** Client ID: Units: **ug/L** Prep Date: **12/19/2013** Run No: **258429**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **185106** Analysis Date: **12/24/2013** Seq No: **5431561**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	6161	500	5000	3.500	123	60.2	159				
Benzene	6118	500	5000	159.7	119	70.2	138				
Chlorobenzene	5573	500	5000		111	70.1	133				
Toluene	11960	500	5000	4154	156	70	139				S
Trichloroethene	5573	500	5000	28.85	111	70.1	144				
Surr: 4-Bromofluorobenzene	5278	0	5000		106	66.2	120				
Surr: Dibromofluoromethane	5218	0	5000		104	79.5	121				
Surr: Toluene-d8	5028	0	5000		101	77	117				

Sample ID: **1312G30-003AMSD** Client ID: Units: **ug/L** Prep Date: **12/19/2013** Run No: **258429**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **185106** Analysis Date: **12/24/2013** Seq No: **5431562**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	5544	500	5000	3.500	111	60.2	159	6161	10.5	19.2	
Benzene	5643	500	5000	159.7	110	70.2	138	6118	8.08	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Mill Creek Env Services
Project Name: Apex Village
Workorder: 1312F57

ANALYTICAL QC SUMMARY REPORT

BatchID: 185106

Sample ID: **1312G30-003AMSD** Client ID: Units: **ug/L** Prep Date: **12/19/2013** Run No: **258429**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **185106** Analysis Date: **12/24/2013** Seq No: **5431562**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	5444	500	5000		109	70.1	133	5573	2.34	20	
Toluene	10840	500	5000	4154	134	70	139	11960	9.82	20	
Trichloroethene	5290	500	5000	28.85	105	70.1	144	5573	5.21	20	
Surr: 4-Bromofluorobenzene	5309	0	5000		106	66.2	120	5278	0	0	
Surr: Dibromofluoromethane	5242	0	5000		105	79.5	121	5218	0	0	
Surr: Toluene-d8	4944	0	5000		98.9	77	117	5028	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Mill Creek Env Services
Project Name: Apex Village
Workorder: 1312F57

ANALYTICAL QC SUMMARY REPORT

BatchID: 185199

Sample ID: **MB-185199** Client ID: Units: **ug/L** Prep Date: **12/23/2013** Run No: **258387**
SampleType: **MBLK** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **185199** Analysis Date: **12/23/2013** Seq No: **5429211**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	BRL	9									
Ethylene	BRL	7									
Methane	BRL	4									

Sample ID: **LCS-185199** Client ID: Units: **ug/L** Prep Date: **12/23/2013** Run No: **258387**
SampleType: **LCS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **185199** Analysis Date: **12/23/2013** Seq No: **5429214**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	99.76	9	200.0		49.9	41.6	115				
Ethylene	67.07	7	200.0		33.5	26.9	115				
Methane	106.5	4	200.0		53.3	45.2	115				

Sample ID: **LCSD-185199** Client ID: Units: **ug/L** Prep Date: **12/23/2013** Run No: **258387**
SampleType: **LCSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **185199** Analysis Date: **12/23/2013** Seq No: **5429218**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	99.96	9	200.0		50.0	41.6	115	99.76	0.203	20	
Ethylene	67.24	7	200.0		33.6	26.9	115	67.07	0.259	20	
Methane	107.0	4	200.0		53.5	45.2	115	106.5	0.490	20	

Sample ID: **1312G64-015BMS** Client ID: Units: **ug/L** Prep Date: **12/23/2013** Run No: **258387**
SampleType: **MS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **185199** Analysis Date: **12/23/2013** Seq No: **5429332**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	98.71	9	200.0		49.4	40.1	115				
Ethylene	65.93	7	200.0		33.0	24.5	115				
Methane	102.9	4	200.0		51.4	41.1	115				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Mill Creek Env Services
Project Name: Apex Village
Workorder: 1312F57

ANALYTICAL QC SUMMARY REPORT

BatchID: 185199

Sample ID: **1312G64-015BMSD** Client ID: Units: **ug/L** Prep Date: **12/23/2013** Run No: **258387**
SampleType: **MSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **185199** Analysis Date: **12/23/2013** Seq No: **5429333**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	98.22	9	200.0		49.1	40.1	115	98.71	0.502	20	
Ethylene	65.52	7	200.0		32.8	24.5	115	65.93	0.628	20	
Methane	103.4	4	200.0		51.7	41.1	115	102.9	0.572	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Mill Creek Env Services
Project Name: Apex Village
Workorder: 1312F57

ANALYTICAL QC SUMMARY REPORT

BatchID: **R258174**

Sample ID: **MB-R258174** Client ID: Units: **mg/L** Prep Date: Run No: **258174**
SampleType: **MBLK** TestCode: **Sulfite (E377.1/SM4500 SO3 B)** BatchID: **R258174** Analysis Date: **12/20/2013** Seq No: **5424840**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfite	BRL	2.00									

Sample ID: **LCS-R258174** Client ID: Units: **mg/L** Prep Date: Run No: **258174**
SampleType: **LCS** TestCode: **Sulfite (E377.1/SM4500 SO3 B)** BatchID: **R258174** Analysis Date: **12/20/2013** Seq No: **5424841**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfite	46.50	2.00	50.00		93.0	70	130				

Sample ID: **1312F57-001EDUP** Client ID: **MW-1** Units: **mg/L** Prep Date: Run No: **258174**
SampleType: **DUP** TestCode: **Sulfite (E377.1/SM4500 SO3 B)** BatchID: **R258174** Analysis Date: **12/20/2013** Seq No: **5424850**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfite	BRL	2.00						0	0	20	H

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Mill Creek Env Services
Project Name: Apex Village
Workorder: 1312F57

ANALYTICAL QC SUMMARY REPORT

BatchID: **R258235**

Sample ID: **MB-R258235** Client ID: Units: **mg/L** Prep Date: Run No: **258235**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R258235** Analysis Date: **12/18/2013** Seq No: **5426107**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	1.0									
Nitrate	BRL	0.25									
Nitrite	BRL	0.25									

Sample ID: **LCS-R258235** Client ID: Units: **mg/L** Prep Date: Run No: **258235**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R258235** Analysis Date: **12/18/2013** Seq No: **5426110**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	10.82	1.0	10.00		108	90	110				
Nitrate	5.268	0.25	5.000		105	90	110				
Nitrite	5.230	0.25	5.000		105	90	110				

Sample ID: **1312G00-001AMS** Client ID: Units: **mg/L** Prep Date: Run No: **258235**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R258235** Analysis Date: **12/18/2013** Seq No: **5426126**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	18.51	1.0	10.00	10.15	83.6	90	110				S
Nitrate	5.818	0.25	5.000	0.5691	105	90	110				
Nitrite	5.091	0.25	5.000		102	90	110				

Sample ID: **1312G00-001AMSD** Client ID: Units: **mg/L** Prep Date: Run No: **258235**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R258235** Analysis Date: **12/18/2013** Seq No: **5426129**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	18.45	1.0	10.00	10.15	82.9	90	110	18.51	0.367	20	S
Nitrate	5.851	0.25	5.000	0.5691	106	90	110	5.818	0.576	20	
Nitrite	5.227	0.25	5.000		105	90	110	5.091	2.63	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Mill Creek Env Services
Project Name: Apex Village
Workorder: 1312F57

ANALYTICAL QC SUMMARY REPORT

BatchID: **R258300**

Sample ID: **MB-R258300** Client ID: Units: **mg/L** Prep Date: Run No: **258300**
SampleType: **MBLK** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R258300** Analysis Date: **12/18/2013** Seq No: **5427276**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100									

Sample ID: **LCS-R258300** Client ID: Units: **mg/L** Prep Date: Run No: **258300**
SampleType: **LCS** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R258300** Analysis Date: **12/18/2013** Seq No: **5427277**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5206	0.100	0.5000		104	85	115				

Sample ID: **1312F57-001CMS** Client ID: **MW-1** Units: **mg/L** Prep Date: Run No: **258300**
SampleType: **MS** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R258300** Analysis Date: **12/18/2013** Seq No: **5427286**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5148	0.100	0.5000		103	80	120				H

Sample ID: **1312F57-001CMSD** Client ID: **MW-1** Units: **mg/L** Prep Date: Run No: **258300**
SampleType: **MSD** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R258300** Analysis Date: **12/18/2013** Seq No: **5427289**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5263	0.100	0.5000		105	80	120	0.5148	2.21	30	H

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Mill Creek Env Services
Project Name: Apex Village
Workorder: 1312F57

ANALYTICAL QC SUMMARY REPORT

BatchID: **R258324**

Sample ID: **MB-R258324** Client ID: Units: **mg/L** Prep Date: Run No: **258324**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R258324** Analysis Date: **12/18/2013** Seq No: **5427880**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	1.0									
Nitrate	BRL	0.25									
Nitrite	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R258324** Client ID: Units: **mg/L** Prep Date: Run No: **258324**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R258324** Analysis Date: **12/18/2013** Seq No: **5427871**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	5.033	1.0	5.000		101	90	110				
Nitrate	4.907	0.25	5.000		98.1	90	110				
Nitrite	4.788	0.25	5.000		95.8	90	110				
Sulfate	23.71	1.0	25.00		94.8	90	110				

Sample ID: **1312F57-002DMS** Client ID: **MW-2** Units: **mg/L** Prep Date: Run No: **258324**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R258324** Analysis Date: **12/18/2013** Seq No: **5427966**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	8.378	1.0	5.000	3.505	97.5	90	110				
Nitrate	6.361	0.25	5.000	1.484	97.5	90	110				
Nitrite	5.125	0.25	5.000		103	90	110				
Sulfate	22.66	1.0	25.00	0.5374	88.5	90	110				S

Sample ID: **1312F57-002DMSD** Client ID: **MW-2** Units: **mg/L** Prep Date: Run No: **258324**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R258324** Analysis Date: **12/18/2013** Seq No: **5427967**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	8.487	1.0	5.000	3.505	99.6	90	110	8.378	1.29	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc

Date: 7-Jan-14

Client: Mill Creek Env Services
Project Name: Apex Village
Workorder: 1312F57

ANALYTICAL QC SUMMARY REPORT

BatchID: R258324

Sample ID: **1312F57-002DMSD** Client ID: **MW-2** Units: **mg/L** Prep Date: Run No: **258324**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R258324** Analysis Date: **12/18/2013** Seq No: **5427967**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	6.402	0.25	5.000	1.484	98.4	90	110	6.361	0.655	20	
Nitrite	5.111	0.25	5.000		102	90	110	5.125	0.284	20	
Sulfate	22.96	1.0	25.00	0.5374	89.7	90	110	22.66	1.30	20	S

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Mill Creek Env Services
Project Name: Apex Village
Workorder: 1312F57

ANALYTICAL QC SUMMARY REPORT

BatchID: R258405

Sample ID: **MB-R258405** Client ID: Units: **mg/L** Prep Date: Run No: **258405**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R258405** Analysis Date: **12/20/2013** Seq No: **5429496**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	BRL	1.0									

Sample ID: **LCS-R258405** Client ID: Units: **mg/L** Prep Date: Run No: **258405**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R258405** Analysis Date: **12/20/2013** Seq No: **5429498**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	24.66	1.0	25.00		98.6	90	110				

Sample ID: **1312H84-001AMS** Client ID: Units: **mg/L** Prep Date: Run No: **258405**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R258405** Analysis Date: **12/20/2013** Seq No: **5429505**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	148.4	5.0	125.0	21.98	101	90	110				

Sample ID: **1312I37-002AMS** Client ID: Units: **mg/L** Prep Date: Run No: **258405**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R258405** Analysis Date: **12/20/2013** Seq No: **5429529**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	32.83	1.0	25.00	6.873	104	90	110				

Sample ID: **1312H84-001AMSD** Client ID: Units: **mg/L** Prep Date: Run No: **258405**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R258405** Analysis Date: **12/20/2013** Seq No: **5429509**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	150.0	5.0	125.0	21.98	102	90	110	148.4	1.03	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

APPENDIX M

SLUG TEST INPUT DATA/RESULTS
AND SEEPAGE VELOCITY CALCULATIONS

Seepage Velocity Calculations

Apex Village
548 Williams Street
Apex, Wake County, North Carolina 27501
North Carolina IHSB Site ID: NONCD0002646
December 17, 2013 Groundwater Gauging Event

Vs = seepage velocity
Vs = k*i/Ne

Where:

k = hydraulic conductivity
Average k = 2.45×10^{-4} cm/sec
Obtained from slug tests, Mill Creek Environmental Services Hydrogeologic Assessment December 18, 2013.

Ne = effective porosity
0.15 Conservative estimate for sandy silty clay.

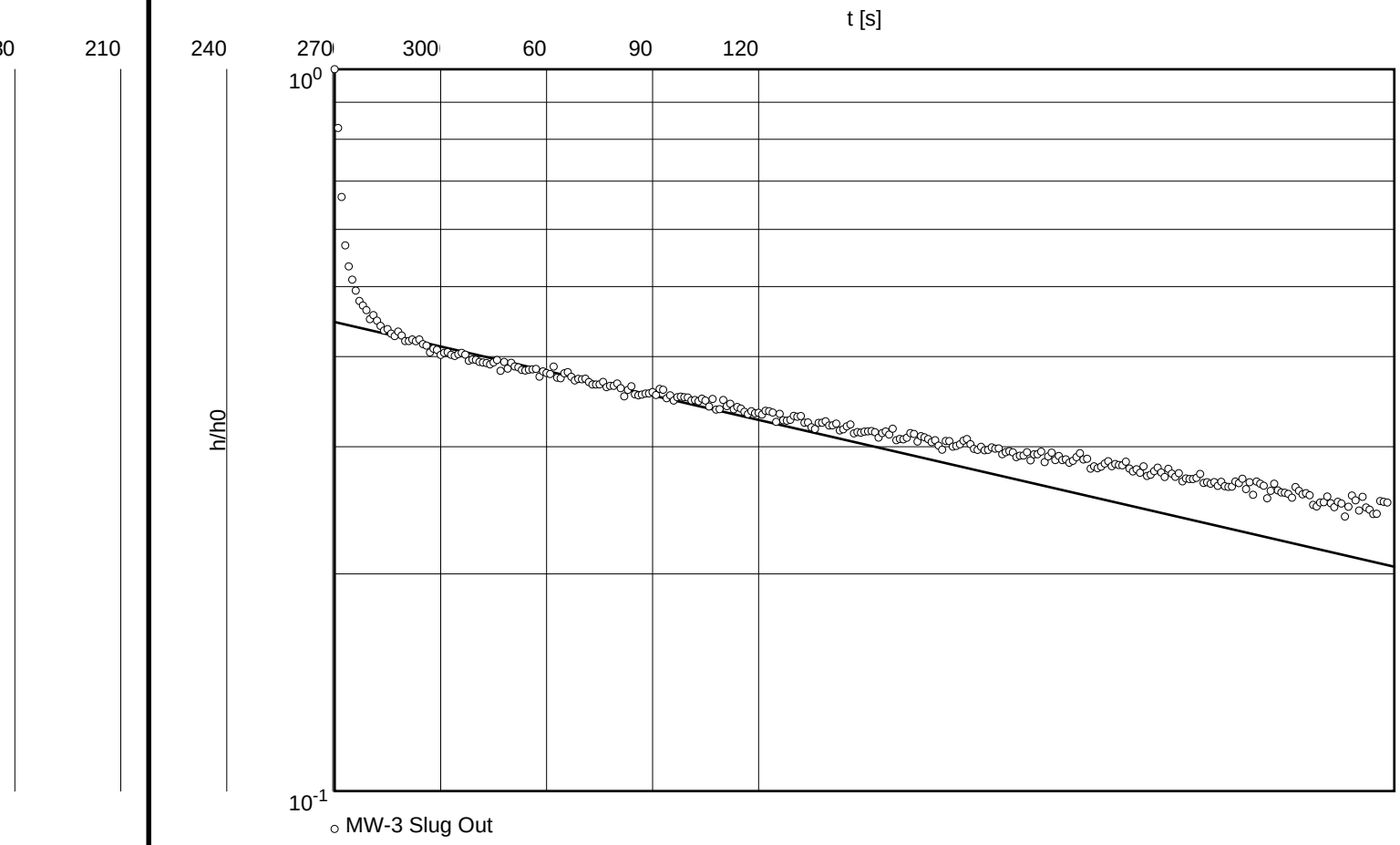
i = hydraulic gradient

MW-1 to MW-6 WL difference 8.83 ft / distance 504 ft = 0.0175 ft/ft

Vs = 2.45×10^{-4} cm/sec * 0.0175 ft/ft / 0.15 = 2.86×10^{-5} cm/sec = 29.60 ft/year

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-3	



Hydraulic conductivity [cm/s]: 1.84×10^{-4}

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-3	MW-3 Slug Out

Static water level: 290.2 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
1	0	334.2	44.0
2	1	326.7	36.5
3	2	319.5	29.3
4	3	315.3	25.1
5	4	313.6	23.5
6	5	312.7	22.5
7	6	311.9	21.7
8	7	311.2	21.0
9	8	310.9	20.7
10	9	310.6	20.4
11	10	310.0	19.8
12	11	310.3	20.1
13	12	309.9	19.7
14	13	309.6	19.4
15	14	309.3	19.1
16	15	309.4	19.2
17	16	309.1	18.9
18	17	309.0	18.8
19	18	309.2	19.1
20	19	309.0	18.8
21	20	308.7	18.5
22	21	308.7	18.5
23	22	308.8	18.6
24	23	308.7	18.5
25	24	308.8	18.6
26	25	308.5	18.3
27	26	308.4	18.2
28	27	308.0	17.8
29	28	308.2	18.1
30	29	308.2	18.0
31	30	307.9	17.7
32	31	308.0	17.8
33	32	308.0	17.9
34	33	307.9	17.7
35	34	307.8	17.6
36	35	307.9	17.7
37	36	308.0	17.8
38	37	307.9	17.7
39	38	307.5	17.4
40	39	307.6	17.4
41	40	307.6	17.4
42	41	307.5	17.3
43	42	307.4	17.3
44	43	307.4	17.2
45	44	307.3	17.2
46	45	307.4	17.3
47	46	307.6	17.4
48	47	307.0	16.8
49	48	307.5	17.3
50	49	307.1	16.9

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-3	MW-3 Slug Out

Static water level: 290.2 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
51	50	307.4	17.3
52	51	307.2	17.1
53	52	307.2	17.0
54	53	307.0	16.9
55	54	307.0	16.8
56	55	307.1	16.9
57	56	307.1	16.9
58	57	307.1	16.9
59	58	306.7	16.5
60	59	307.0	16.8
61	60	306.9	16.7
62	61	306.8	16.7
63	62	307.2	17.0
64	63	306.6	16.5
65	64	306.6	16.4
66	65	306.9	16.7
67	66	306.9	16.7
68	67	306.7	16.5
69	68	306.5	16.3
70	69	306.6	16.4
71	70	306.5	16.4
72	71	306.6	16.4
73	72	306.4	16.2
74	73	306.3	16.1
75	74	306.3	16.1
76	75	306.3	16.1
77	76	306.4	16.2
78	77	306.1	16.0
79	78	306.2	16.0
80	79	306.2	16.0
81	80	306.3	16.2
82	81	306.1	15.9
83	82	305.7	15.5
84	83	306.0	15.8
85	84	306.2	16.0
86	85	305.8	15.6
87	86	305.7	15.6
88	87	305.8	15.6
89	88	305.8	15.6
90	89	305.8	15.7
91	90	305.9	15.7
92	91	305.7	15.6
93	92	306.0	15.9
94	93	306.0	15.8
95	94	305.6	15.4
96	95	305.7	15.6
97	96	305.5	15.3
98	97	305.6	15.5
99	98	305.7	15.5
100	99	305.6	15.5

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-3	MW-3 Slug Out

Static water level: 290.2 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
101	100	305.6	15.4
102	101	305.5	15.3
103	102	305.5	15.3
104	103	305.4	15.3
105	104	305.6	15.4
106	105	305.5	15.3
107	106	305.2	15.0
108	107	305.5	15.4
109	108	305.0	14.9
110	109	305.1	14.9
111	110	305.5	15.3
112	111	305.2	15.0
113	112	305.3	15.1
114	113	305.0	14.9
115	114	305.2	15.0
116	115	305.1	14.9
117	116	304.9	14.8
118	117	304.8	14.6
119	118	305.0	14.8
120	119	304.9	14.7
121	120	304.9	14.7
122	121	304.8	14.6
123	122	305.0	14.8
124	123	305.0	14.8
125	124	304.9	14.7
126	125	304.5	14.3
127	126	304.8	14.7
128	127	304.5	14.4
129	128	304.5	14.3
130	129	304.6	14.4
131	130	304.7	14.6
132	131	304.7	14.5
133	132	304.7	14.6
134	133	304.4	14.3
135	134	304.4	14.3
136	135	304.2	14.1
137	136	304.1	14.0
138	137	304.4	14.2
139	138	304.4	14.3
140	139	304.5	14.3
141	140	304.3	14.1
142	141	304.3	14.1
143	142	304.4	14.2
144	143	304.1	13.9
145	144	304.1	14.0
146	145	304.3	14.1
147	146	304.3	14.2
148	147	303.9	13.8
149	148	304.0	13.8
150	149	304.0	13.8

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-3	MW-3 Slug Out

Static water level: 290.2 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
151	150	304.0	13.9
152	151	304.0	13.9
153	152	304.1	13.9
154	153	304.0	13.8
155	154	303.8	13.6
156	155	304.0	13.8
157	156	304.0	13.9
158	157	303.9	13.7
159	158	304.2	14.0
160	159	303.7	13.5
161	160	303.7	13.5
162	161	303.7	13.5
163	162	303.8	13.6
164	163	304.0	13.8
165	164	303.9	13.8
166	165	303.6	13.4
167	166	303.8	13.7
168	167	303.8	13.6
169	168	303.7	13.5
170	169	303.6	13.4
171	170	303.7	13.5
172	171	303.4	13.3
173	172	303.3	13.1
174	173	303.6	13.5
175	174	303.6	13.4
176	175	303.4	13.2
177	176	303.4	13.2
178	177	303.5	13.3
179	178	303.6	13.5
180	179	303.7	13.5
181	180	303.5	13.3
182	181	303.3	13.1
183	182	303.2	13.1
184	183	303.4	13.2
185	184	303.2	13.1
186	185	303.2	13.1
187	186	303.3	13.2
188	187	303.3	13.1
189	188	303.3	13.1
190	189	303.1	12.9
191	190	303.1	13.0
192	191	303.2	13.0
193	192	303.1	13.0
194	193	302.9	12.8
195	194	303.0	12.8
196	195	303.0	12.8
197	196	303.1	13.0
198	197	302.8	12.6
199	198	303.1	12.9
200	199	303.1	12.9

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-3	MW-3 Slug Out

Static water level: 290.2 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
201	200	303.2	13.0
202	201	302.7	12.6
203	202	303.0	12.8
204	203	303.1	13.0
205	204	302.8	12.7
206	205	303.0	12.8
207	206	302.8	12.7
208	207	302.9	12.7
209	208	302.7	12.5
210	209	302.8	12.6
211	210	302.9	12.8
212	211	303.1	12.9
213	212	302.8	12.7
214	213	302.9	12.7
215	214	302.5	12.3
216	215	302.6	12.4
217	216	302.5	12.3
218	217	302.6	12.4
219	218	302.7	12.5
220	219	302.8	12.6
221	220	302.6	12.4
222	221	302.7	12.5
223	222	302.6	12.5
224	223	302.6	12.4
225	224	302.8	12.6
226	225	302.5	12.3
227	226	302.4	12.2
228	227	302.5	12.3
229	228	302.3	12.2
230	229	302.6	12.4
231	230	302.2	12.0
232	231	302.3	12.1
233	232	302.4	12.2
234	233	302.5	12.4
235	234	302.3	12.2
236	235	302.2	12.0
237	236	302.5	12.3
238	237	302.3	12.1
239	238	302.2	12.0
240	239	302.3	12.1
241	240	302.0	11.8
242	241	302.1	11.9
243	242	302.1	11.9
244	243	302.1	11.9
245	244	302.1	12.0
246	245	302.3	12.1
247	246	301.9	11.8
248	247	302.0	11.8
249	248	301.9	11.7
250	249	302.0	11.8

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

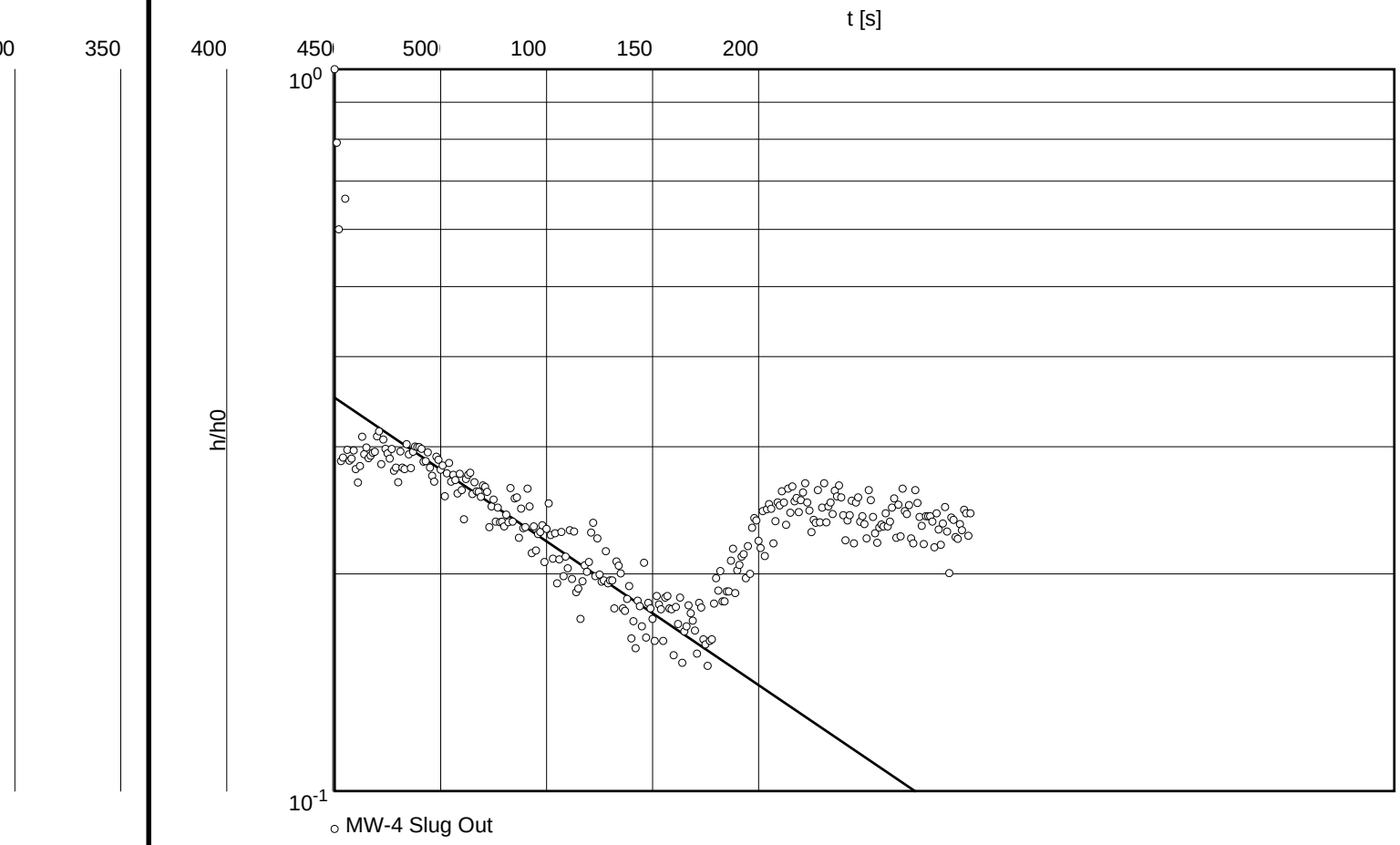
Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-3	MW-3 Slug Out

Static water level: 290.2 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
251	250	301.8	11.7
252	251	302.0	11.8
253	252	301.8	11.6
254	253	301.8	11.6
255	254	301.8	11.6
256	255	302.0	11.8
257	256	301.9	11.8
258	257	302.1	11.9
259	258	301.7	11.5
260	259	302.0	11.8
261	260	301.5	11.3
262	261	302.0	11.8
263	262	301.9	11.7
264	263	301.8	11.7
265	264	301.4	11.2
266	265	301.6	11.5
267	266	301.9	11.7
268	267	301.7	11.5
269	268	301.6	11.4
270	269	301.6	11.4
271	270	301.5	11.4
272	271	301.4	11.2
273	272	301.8	11.6
274	273	301.6	11.5
275	274	301.5	11.3
276	275	301.6	11.4
277	276	301.5	11.3
278	277	301.1	11.0
279	278	301.1	10.9
280	279	301.2	11.1
281	280	301.2	11.1
282	281	301.4	11.3
283	282	301.2	11.0
284	283	301.1	10.9
285	284	301.2	11.1
286	285	301.2	11.0
287	286	300.7	10.6
288	287	301.1	10.9
289	288	301.5	11.3
290	289	301.3	11.1
291	290	300.9	10.8
292	291	301.4	11.3
293	292	301.0	10.9
294	293	301.0	10.8
295	294	300.8	10.7
296	295	300.8	10.7
297	296	301.3	11.1
298	297	301.2	11.1
299	298	301.2	11.1

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-4	



Hydraulic conductivity [cm/s]: 8.92×10^{-5}

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-4	MW-4 Slug Out

Static water level: 210.3 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
1	0	229.3	19.0
2	1	225.3	15.0
3	2	221.7	11.4
4	3	215.7	5.4
5	4	215.8	5.5
6	5	222.9	12.6
7	6	215.9	5.6
8	7	215.7	5.4
9	8	215.8	5.5
10	9	215.9	5.6
11	10	215.6	5.3
12	11	215.4	5.1
13	12	215.7	5.4
14	13	216.2	5.9
15	14	215.9	5.6
16	15	216.0	5.7
17	16	215.8	5.5
18	17	215.8	5.5
19	18	215.9	5.6
20	19	215.9	5.6
21	20	216.2	5.9
22	21	216.3	6.0
23	22	215.7	5.4
24	23	216.1	5.8
25	24	216.0	5.7
26	25	215.9	5.6
27	26	215.8	5.5
28	27	216.0	5.7
29	28	215.6	5.3
30	29	215.6	5.3
31	30	215.4	5.1
32	31	215.9	5.6
33	32	215.6	5.3
34	33	215.6	5.3
35	34	216.0	5.7
36	35	215.9	5.6
37	36	215.6	5.3
38	37	215.9	5.6
39	38	216.0	5.7
40	39	216.0	5.7
41	40	216.0	5.7
42	41	216.0	5.7
43	42	215.7	5.4
44	43	215.7	5.4
45	44	215.9	5.6
46	45	215.6	5.3
47	46	215.5	5.2
48	47	215.4	5.1
49	48	215.8	5.5
50	49	215.8	5.5

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-4	MW-4 Slug Out

Static water level: 210.3 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
51	50	215.6	5.3
52	51	215.7	5.4
53	52	215.2	4.9
54	53	215.5	5.2
55	54	215.7	5.4
56	55	215.4	5.1
57	56	215.5	5.2
58	57	215.4	5.1
59	58	215.2	4.9
60	59	215.5	5.2
61	60	215.3	5.0
62	61	214.8	4.5
63	62	215.4	5.1
64	63	215.5	5.2
65	64	215.5	5.2
66	65	215.2	4.9
67	66	215.4	5.1
68	67	215.2	4.9
69	68	215.2	4.9
70	69	215.2	4.9
71	70	215.3	5.0
72	71	215.3	5.0
73	72	215.2	4.9
74	73	214.7	4.4
75	74	215.0	4.7
76	75	215.1	4.8
77	76	214.8	4.5
78	77	215.0	4.7
79	78	214.8	4.5
80	79	214.8	4.5
81	80	214.7	4.4
82	81	214.9	4.6
83	82	214.8	4.5
84	83	215.3	5.0
85	84	214.8	4.5
86	85	215.1	4.8
87	86	215.1	4.8
88	87	214.6	4.3
89	88	215.0	4.7
90	89	214.7	4.4
91	90	214.7	4.4
92	91	215.3	5.0
93	92	215.0	4.7
94	93	214.4	4.1
95	94	214.7	4.4
96	95	214.4	4.1
97	96	214.6	4.3
98	97	214.6	4.3
99	98	214.7	4.4
100	99	214.2	3.9

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-4	MW-4 Slug Out

Static water level: 210.3 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
101	100	214.7	4.4
102	101	215.1	4.8
103	102	214.6	4.3
104	103	214.3	4.0
105	104	214.6	4.3
106	105	214.0	3.7
107	106	214.3	4.0
108	107	214.6	4.3
109	108	214.1	3.8
110	109	214.3	4.0
111	110	214.2	3.9
112	111	214.7	4.4
113	112	214.0	3.7
114	113	214.6	4.3
115	114	213.9	3.6
116	115	213.9	3.6
117	116	213.6	3.3
118	117	214.0	3.7
119	118	214.2	3.9
120	119	214.1	3.8
121	120	214.2	3.9
122	121	214.6	4.3
123	122	214.8	4.5
124	123	214.1	3.8
125	124	214.6	4.3
126	125	214.1	3.8
127	126	214.0	3.7
128	127	214.0	3.7
129	128	214.4	4.1
130	129	214.0	3.7
131	130	214.0	3.7
132	131	214.0	3.7
133	132	213.7	3.4
134	133	214.3	4.0
135	134	214.2	3.9
136	135	214.1	3.8
137	136	213.7	3.4
138	137	213.7	3.4
139	138	213.8	3.5
140	139	214.0	3.7
141	140	213.4	3.1
142	141	213.6	3.3
143	142	213.3	3.0
144	143	213.8	3.5
145	144	213.7	3.4
146	145	213.5	3.2
147	146	214.2	3.9
148	147	213.4	3.1
149	148	213.8	3.5
150	149	213.7	3.4

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-4	MW-4 Slug Out

Static water level: 210.3 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
151	150	213.6	3.3
152	151	213.4	3.1
153	152	213.8	3.5
154	153	213.7	3.4
155	154	213.7	3.4
156	155	213.4	3.1
157	156	213.8	3.5
158	157	213.8	3.5
159	158	213.7	3.4
160	159	213.7	3.4
161	160	213.2	2.9
162	161	213.7	3.4
163	162	213.5	3.2
164	163	213.8	3.5
165	164	213.2	2.9
166	165	213.5	3.2
167	166	213.5	3.2
168	167	213.7	3.4
169	168	213.6	3.3
170	169	213.6	3.3
171	170	213.5	3.2
172	171	213.2	2.9
173	172	213.8	3.5
174	173	213.7	3.4
175	174	213.4	3.1
176	175	213.3	3.0
177	176	213.1	2.8
178	177	213.4	3.1
179	178	213.4	3.1
180	179	213.8	3.5
181	180	214.0	3.7
182	181	213.9	3.6
183	182	214.1	3.8
184	183	213.8	3.5
185	184	213.8	3.5
186	185	213.9	3.6
187	186	213.9	3.6
188	187	214.3	4.0
189	188	214.4	4.1
190	189	213.9	3.6
191	190	214.1	3.8
192	191	214.2	3.9
193	192	214.3	4.0
194	193	214.3	4.0
195	194	214.0	3.7
196	195	214.4	4.1
197	196	214.1	3.8
198	197	214.7	4.4
199	198	214.8	4.5
200	199	214.8	4.5

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-4	MW-4 Slug Out

Static water level: 210.3 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
201	200	214.5	4.2
202	201	214.4	4.1
203	202	214.9	4.6
204	203	214.3	4.0
205	204	215.0	4.7
206	205	215.0	4.7
207	206	215.0	4.7
208	207	214.5	4.2
209	208	214.8	4.5
210	209	215.1	4.8
211	210	215.0	4.7
212	211	215.2	4.9
213	212	215.1	4.8
214	213	214.7	4.4
215	214	215.3	5.0
216	215	214.9	4.6
217	216	215.3	5.0
218	217	215.1	4.8
219	218	215.1	4.8
220	219	214.9	4.6
221	220	215.1	4.8
222	221	215.2	4.9
223	222	215.4	5.1
224	223	215.1	4.8
225	224	214.9	4.6
226	225	214.6	4.3
227	226	214.8	4.5
228	227	214.8	4.5
229	228	215.3	5.0
230	229	214.8	4.5
231	230	215.0	4.7
232	231	215.4	5.1
233	232	214.8	4.5
234	233	215.0	4.7
235	234	215.1	4.8
236	235	214.9	4.6
237	236	215.2	4.9
238	237	215.2	4.9
239	238	215.3	5.0
240	239	215.1	4.8
241	240	214.9	4.6
242	241	214.5	4.2
243	242	214.8	4.5
244	243	214.9	4.6
245	244	215.1	4.8
246	245	214.5	4.2
247	246	215.1	4.8
248	247	215.1	4.8
249	248	214.8	4.5
250	249	214.9	4.6

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-4	MW-4 Slug Out

Static water level: 210.3 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
251	250	214.7	4.4
252	251	214.6	4.3
253	252	215.3	5.0
254	253	215.1	4.8
255	254	214.9	4.6
256	255	214.6	4.3
257	256	214.5	4.2
258	257	214.7	4.4
259	258	214.7	4.4
260	259	214.7	4.4
261	260	214.9	4.6
262	261	214.7	4.4
263	262	214.8	4.5
264	263	215.0	4.7
265	264	215.1	4.8
266	265	214.6	4.3
267	266	215.0	4.7
268	267	214.6	4.3
269	268	215.3	5.0
270	269	214.9	4.6
271	270	214.9	4.6
272	271	215.0	4.7
273	272	214.6	4.3
274	273	214.5	4.2
275	274	215.3	5.0
276	275	215.1	4.8
277	276	214.9	4.6
278	277	214.7	4.4
279	278	214.5	4.2
280	279	214.9	4.6
281	280	214.9	4.6
282	281	214.9	4.6
283	282	214.8	4.5
284	283	214.4	4.1
285	284	214.9	4.6
286	285	214.7	4.4
287	286	214.5	4.2
288	287	214.8	4.5
289	288	215.0	4.7
290	289	214.6	4.3
291	290	214.1	3.8
292	291	214.8	4.5
293	292	214.8	4.5
294	293	214.6	4.3
295	294	214.5	4.2
296	295	214.7	4.4
297	296	214.7	4.4
298	297	215.0	4.7
299	298	214.9	4.6
300	299	214.6	4.3

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

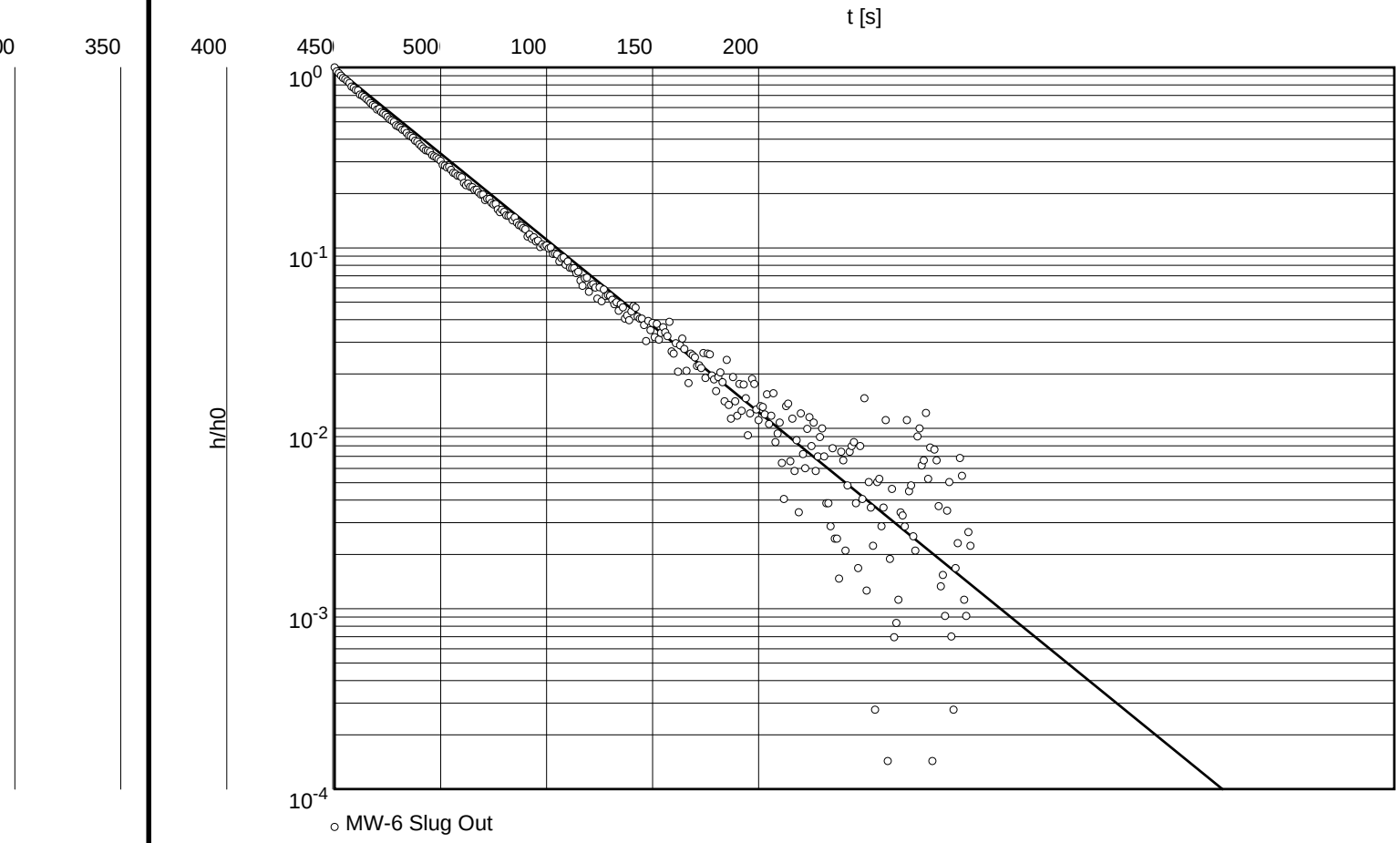
Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-4	MW-4 Slug Out

Static water level: 210.3 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]	
301	300	214.9	4.6	

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-13
MW-6	



Hydraulic conductivity [cm/s]: 4.47×10^{-4}

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-13
MW-6	MW-6 Slug Out

Static water level: 101.8 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
1	0	145.5	43.7
2	1	143.3	41.5
3	2	142.3	40.5
4	3	141.1	39.3
5	4	139.9	38.1
6	5	139.4	37.6
7	6	138.4	36.6
8	7	137.6	35.8
9	8	136.0	34.2
10	9	135.4	33.6
11	10	134.5	32.7
12	11	134.3	32.5
13	12	132.6	30.8
14	13	132.3	30.5
15	14	131.7	29.9
16	15	131.0	29.2
17	16	130.3	28.5
18	17	129.5	27.7
19	18	128.8	27.0
20	19	128.3	26.5
21	20	127.3	25.5
22	21	127.5	25.7
23	22	126.5	24.7
24	23	126.1	24.3
25	24	125.6	23.8
26	25	124.9	23.1
27	26	124.3	22.5
28	27	124.0	22.2
29	28	123.6	21.8
30	29	122.6	20.8
31	30	122.4	20.6
32	31	122.0	20.2
33	32	121.5	19.7
34	33	121.4	19.6
35	34	120.7	18.9
36	35	120.1	18.3
37	36	119.9	18.1
38	37	119.6	17.8
39	38	118.9	17.1
40	39	118.7	16.9
41	40	118.2	16.4
42	41	117.7	15.9
43	42	117.3	15.5
44	43	116.9	15.1
45	44	116.9	15.1
46	45	116.7	14.9
47	46	116.0	14.2
48	47	115.8	14.0
49	48	115.6	13.8
50	49	115.3	13.5

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-13
MW-6	MW-6 Slug Out

Static water level: 101.8 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
51	50	115.0	13.2
52	51	114.4	12.6
53	52	114.3	12.5
54	53	114.0	12.2
55	54	114.1	12.3
56	55	113.6	11.8
57	56	113.2	11.4
58	57	113.0	11.2
59	58	112.8	11.0
60	59	112.7	10.9
61	60	112.5	10.7
62	61	111.8	10.0
63	62	111.5	9.7
64	63	111.7	9.9
65	64	111.3	9.5
66	65	111.3	9.5
67	66	110.9	9.1
68	67	111.0	9.2
69	68	110.6	8.8
70	69	110.4	8.6
71	70	110.4	8.6
72	71	109.8	8.0
73	72	110.0	8.2
74	73	109.9	8.1
75	74	109.6	7.8
76	75	109.4	7.6
77	76	109.4	7.6
78	77	108.9	7.1
79	78	108.7	6.9
80	79	108.9	7.1
81	80	108.7	6.9
82	81	108.4	6.6
83	82	108.4	6.6
84	83	108.4	6.6
85	84	108.0	6.2
86	85	108.2	6.4
87	86	107.8	6.0
88	87	107.6	5.8
89	88	107.6	5.8
90	89	107.4	5.6
91	90	107.3	5.5
92	91	106.8	5.0
93	92	107.0	5.2
94	93	106.7	4.9
95	94	106.8	5.0
96	95	106.5	4.7
97	96	106.6	4.8
98	97	106.2	4.4
99	98	106.4	4.6
100	99	106.3	4.5

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-13
MW-6	MW-6 Slug Out

Static water level: 101.8 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
101	100	106.3	4.5
102	101	106.1	4.3
103	102	106.2	4.4
104	103	105.8	4.0
105	104	105.9	4.1
106	105	105.8	4.0
107	106	105.5	3.7
108	107	105.6	3.8
109	108	105.7	3.9
110	109	105.3	3.5
111	110	105.5	3.7
112	111	105.2	3.4
113	112	105.2	3.4
114	113	105.2	3.4
115	114	105.0	3.2
116	115	105.0	3.2
117	116	104.7	2.9
118	117	104.5	2.7
119	118	104.8	3.0
120	119	104.8	3.0
121	120	104.3	2.5
122	121	104.5	2.7
123	122	104.5	2.7
124	123	104.4	2.6
125	124	104.1	2.3
126	125	104.4	2.6
127	126	104.0	2.2
128	127	104.4	2.6
129	128	104.2	2.4
130	129	104.2	2.4
131	130	104.2	2.4
132	131	104.0	2.2
133	132	103.9	2.1
134	133	104.0	2.2
135	134	103.8	2.0
136	135	103.9	2.1
137	136	103.8	2.0
138	137	103.6	1.8
139	138	103.6	1.8
140	139	103.5	1.7
141	140	103.7	1.9
142	141	103.9	2.1
143	142	103.8	2.0
144	143	103.6	1.8
145	144	103.6	1.8
146	145	103.6	1.8
147	146	103.4	1.6
148	147	103.1	1.3
149	148	103.5	1.7
150	149	103.3	1.5

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-13
MW-6	MW-6 Slug Out

Static water level: 101.8 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
151	150	103.5	1.7
152	151	103.2	1.4
153	152	103.5	1.7
154	153	103.2	1.4
155	154	103.3	1.5
156	155	103.4	1.6
157	156	103.3	1.5
158	157	103.2	1.4
159	158	103.5	1.7
160	159	103.0	1.2
161	160	102.9	1.1
162	161	103.1	1.3
163	162	102.7	0.9
164	163	103.1	1.3
165	164	103.2	1.4
166	165	103.0	1.2
167	166	102.7	0.9
168	167	102.6	0.8
169	168	102.9	1.1
170	169	102.9	1.1
171	170	102.9	1.1
172	171	102.8	1.0
173	172	102.8	1.0
174	173	102.7	0.9
175	174	102.9	1.1
176	175	102.6	0.8
177	176	102.9	1.1
178	177	102.9	1.1
179	178	102.7	0.9
180	179	102.6	0.8
181	180	102.5	0.7
182	181	102.6	0.8
183	182	102.7	0.9
184	183	102.6	0.8
185	184	102.4	0.6
186	185	102.8	1.0
187	186	102.4	0.6
188	187	102.3	0.5
189	188	102.6	0.8
190	189	102.4	0.6
191	190	102.3	0.5
192	191	102.6	0.8
193	192	102.3	0.5
194	193	102.6	0.8
195	194	102.4	0.6
196	195	102.2	0.4
197	196	102.3	0.5
198	197	102.6	0.8
199	198	102.6	0.8
200	199	102.4	0.6

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-13
MW-6	MW-6 Slug Out

Static water level: 101.8 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
201	200	102.3	0.5
202	201	102.4	0.6
203	202	102.4	0.6
204	203	102.3	0.5
205	204	102.5	0.7
206	205	102.3	0.5
207	206	102.3	0.5
208	207	102.5	0.7
209	208	102.2	0.4
210	209	102.2	0.4
211	210	102.3	0.5
212	211	102.1	0.3
213	212	102.0	0.2
214	213	102.4	0.6
215	214	102.4	0.6
216	215	102.1	0.3
217	216	102.3	0.5
218	217	102.1	0.3
219	218	102.2	0.4
220	219	101.9	0.1
221	220	102.3	0.5
222	221	102.1	0.3
223	222	102.1	0.3
224	223	102.2	0.4
225	224	102.3	0.5
226	225	102.1	0.3
227	226	102.3	0.5
228	227	102.1	0.3
229	228	102.1	0.3
230	229	102.2	0.4
231	230	102.2	0.4
232	231	102.1	0.3
233	232	102.0	0.2
234	233	102.0	0.2
235	234	101.9	0.1
236	235	102.1	0.3
237	236	101.9	0.1
238	237	101.9	0.1
239	238	101.9	0.1
240	239	102.1	0.3
241	240	102.1	0.3
242	241	101.9	0.1
243	242	102.0	0.2
244	243	102.1	0.3
245	244	102.1	0.3
246	245	102.2	0.4
247	246	102.0	0.2
248	247	101.9	0.1
249	248	102.1	0.3
250	249	102.0	0.2

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-13
MW-6	MW-6 Slug Out

Static water level: 101.8 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
251	250	102.4	0.6
252	251	101.9	0.1
253	252	102.0	0.2
254	253	102.0	0.2
255	254	101.7	-0.1
256	255	101.8	-0.0
257	256	102.0	0.2
258	257	102.0	0.2
259	258	101.9	0.1
260	259	102.0	0.2
261	260	102.3	0.5
262	261	101.8	0.0
263	262	101.9	0.1
264	263	102.0	0.2
265	264	101.8	-0.0
266	265	101.8	-0.0
267	266	101.8	0.0
268	267	101.7	-0.1
269	268	101.9	0.1
270	269	101.7	-0.1
271	270	102.3	0.5
272	271	102.0	0.2
273	272	102.0	0.2
274	273	101.9	0.1
275	274	101.9	0.1
276	275	102.2	0.4
277	276	102.2	0.4
278	277	102.1	0.3
279	278	102.1	0.3
280	279	102.3	0.5
281	280	102.0	0.2
282	281	102.1	0.3
283	282	101.8	0.0
284	283	102.1	0.3
285	284	102.1	0.3
286	285	102.0	0.2
287	286	101.9	0.1
288	287	101.9	0.1
289	288	101.8	0.0
290	289	102.0	0.2
291	290	102.0	0.2
292	291	101.8	0.0
293	292	101.8	-0.0
294	293	101.9	0.1
295	294	101.9	0.1
296	295	102.1	0.3
297	296	102.0	0.2
298	297	101.8	0.0
299	298	101.8	0.0
300	299	101.9	0.1

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-13
MW-6	MW-6 Slug Out

Static water level: 101.8 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]	
301	300	101.7	-0.1	

APPENDIX N

BIOCHLOR INPUT DATA AND RESULTS

BIOCHLOR Natural Attenuation Decision Support System

Version 2.2
Excel 2000

Apex Village
Plume Calibration
Run Name

Data Input Instructions:

115 → 1. Enter value directly....or
↑ *or* 2. Calculate by filling in gray
0.02 cells. Press Enter, then C
(To restore formulas, hit "Restore Formulas" button)
Variable* → Data used directly in model.

Test if Biotransformation is Occurring → Natural Attenuation Screening Protocol

TYPE OF CHLORINATED SOLVENT: Ethenes ◉ Ethanes ○

1. ADVECTION

Seepage Velocity*	Vs	29.6	(ft/yr)
or			
Hydraulic Conductivity	K	2.5E-04	(cm/sec)
Hydraulic Gradient	i	0.0175	(ft/ft)
Effective Porosity	n	0.15	(-)

2. DISPERSION

Alpha x*	25	(ft)
(Alpha y) / (Alpha x)*	2.5	(-)
(Alpha z) / (Alpha x)*	1.E+00	(-)

Calc. Alpha x

3. ADSORPTION

Retardation Factor* → R

or

			R	
Soil Bulk Density, rho	1.5	(kg/L)		
FractionOrganicCarbon, foc	1.0E-3	(-)		
Partition Coefficient	Koc			
PCE	426	(L/kg)	5.26	(-)
TCE	130	(L/kg)	2.30	(-)
DCE	125	(L/kg)	2.25	(-)
VC	30	(L/kg)	1.30	(-)
ETH	302	(L/kg)	4.02	(-)
Common R (used in model)* =			**2.30**	

4. BIOTRANSFORMATION

-1st Order Decay Coefficient*

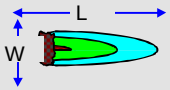
Zone 1	λ (1/yr)	half-life (yrs)	Yield
PCE → TCE	0.330	2.10	0.79
TCE → DCE	0.462	1.50	0.74
DCE → VC	3.300	0.21	0.64
VC → ETH	2.567	0.27	0.45

Zone 2	λ (1/yr)	half-life (yrs)
PCE → TCE	0.000	
TCE → DCE	0.000	
DCE → VC	0.000	
VC → ETH	0.000	

λ HELP

5. GENERAL

Simulation Time*	30	(yr)
Modeled Area Width*	200	(ft)
Modeled Area Length*	250	(ft)
Zone 1 Length*	250	(ft)
Zone 2 Length*	0	(ft)



Zone 2= L - Zone 1

6. SOURCE DATA

TYPE: Continuous, Single Planar

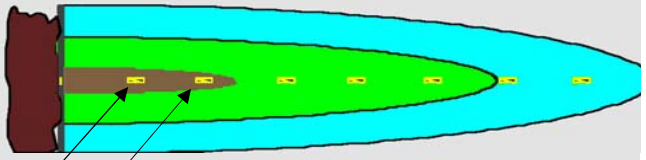
Source Options

Source Thickness in Sat. Zone* 20 (ft)

Width* (ft) Y1 50

Conc. (mg/L)*	C1	k_s* (1/yr)
PCE	.28	0
TCE	.11	0
DCE		0
VC		0
ETH		0

Vertical Plane Source: Determine Source Well Location and Input Solvent Concentrations



View of Plume Looking Down

Observed Centerline Conc. at Monitoring Wells

7. FIELD DATA FOR COMPARISON

PCE Conc. (mg/L)		.03							.0		
TCE Conc. (mg/L)		.015							.0		
DCE Conc. (mg/L)											
VC Conc. (mg/L)											
ETH Conc. (mg/L)											
Distance from Source (ft)	0	30							230		
Date Data Collected	2013										

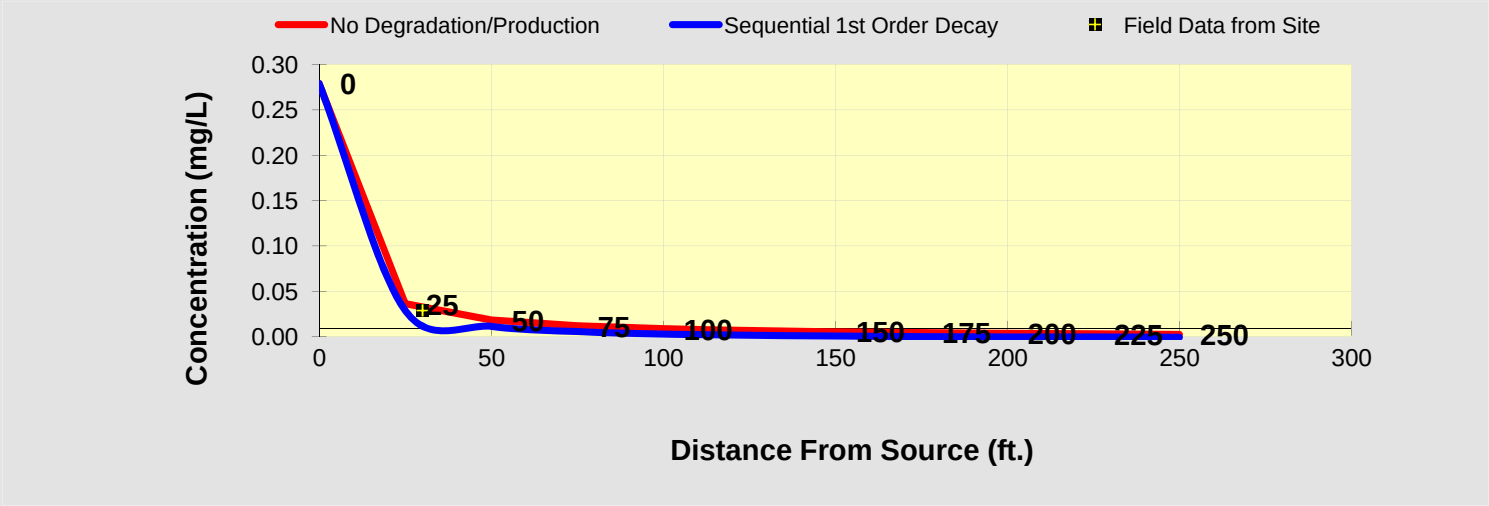
8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | RUN ARRAY | Help | Restore Formulas | RESET | SEE OUTPUT | Paste Example

DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

PCE	Distance from Source (ft)										
	0	25	50	75	100	125	150	175	200	225	250
No Degradation	0.280	0.037	0.019	0.013	0.010	0.008	0.006	0.006	0.005	0.004	0.004
Biotransformation	0.2800	0.030	0.012	0.007	0.004	0.003	0.002	0.001	0.001	0.001	0.000

	Monitoring Well Locations (ft)										
	0	30							230		
Field Data from Site		0.030							0.000		



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

30.0 Years

Log ⟺ Linear

Return to Input

To All

To Array

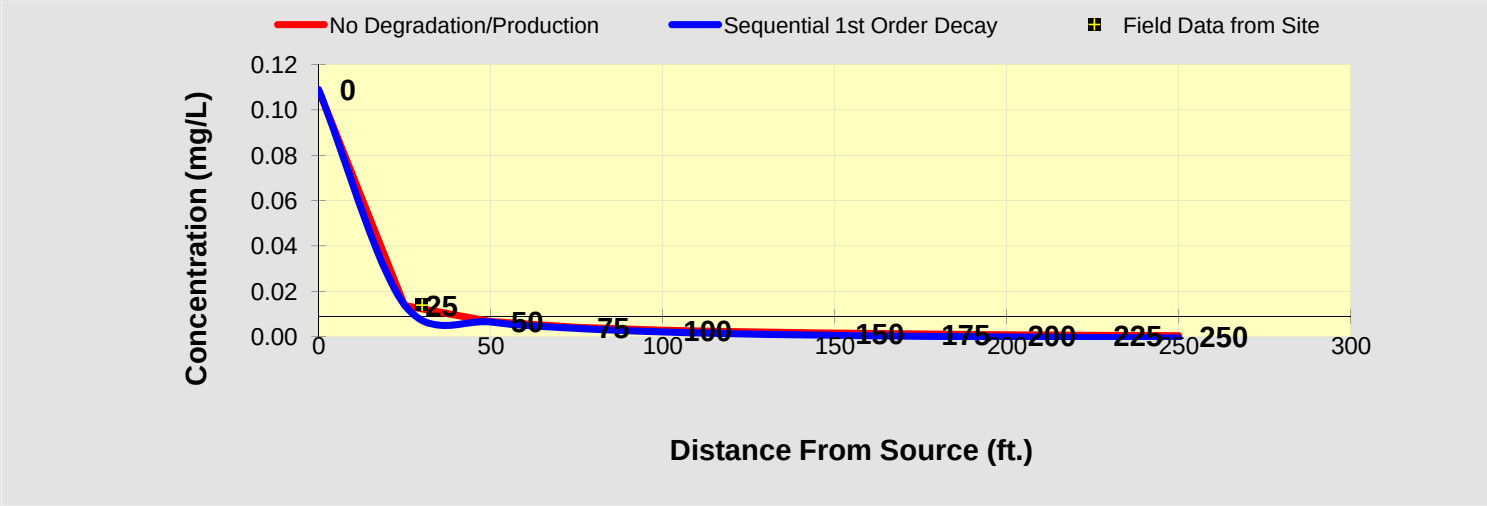
DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

TCE	0	25	50	75	100	125	150	175	200	225	250
No Degradation	0.110	0.015	0.008	0.005	0.004	0.003	0.003	0.002	0.002	0.002	0.001
Biotransformation	0.1100	0.015	0.008	0.005	0.003	0.002	0.002	0.001	0.001	0.001	0.000

Monitoring Well Locations (ft)

	0	30							230		
Field Data from Site		0.015							0.000		



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

30.0 Years

Log ⟺ Linear

Return to Input

To All

To Array

BIOCHLOR Natural Attenuation Decision Support System

Version 2.2
Excel 2000

Apex Village
Maximum Plume
Run Name

Data Input Instructions:

115 → 1. Enter value directly....or
↑ *or* 2. Calculate by filling in gray
0.02 cells. Press Enter, then C
(To restore formulas, hit "Restore Formulas" button)
Variable* → Data used directly in model.

Test if Biotransformation is Occurring → Natural Attenuation Screening Protocol

TYPE OF CHLORINATED SOLVENT: Ethenes ◉ Ethanes ○

1. ADVECTION

Seepage Velocity*	Vs	29.6	(ft/yr)
or			
Hydraulic Conductivity	K	2.5E-04	(cm/sec)
Hydraulic Gradient	i	0.0175	(ft/ft)
Effective Porosity	n	0.15	(-)

2. DISPERSION

Alpha x*	25	(ft)
(Alpha y) / (Alpha x)*	2.5	(-)
(Alpha z) / (Alpha x)*	1.E+00	(-)

Calc. Alpha x

3. ADSORPTION

Retardation Factor* → R

or

			R	
Soil Bulk Density, rho	1.5	(kg/L)		
FractionOrganicCarbon, foc	1.0E-3	(-)		
Partition Coefficient	Koc			
PCE	426	(L/kg)	5.26	(-)
TCE	130	(L/kg)	2.30	(-)
DCE	125	(L/kg)	2.25	(-)
VC	30	(L/kg)	1.30	(-)
ETH	302	(L/kg)	4.02	(-)
Common R (used in model)* =			**2.30**	

4. BIOTRANSFORMATION

-1st Order Decay Coefficient*

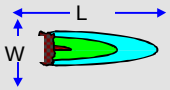
Zone 1	λ (1/yr)	half-life (yrs)	Yield
PCE → TCE	0.330	2.10	0.79
TCE → DCE	0.462	1.50	0.74
DCE → VC	3.300	0.21	0.64
VC → ETH	2.567	0.27	0.45

Zone 2	λ (1/yr)	half-life (yrs)
PCE → TCE	0.000	
TCE → DCE	0.000	
DCE → VC	0.000	
VC → ETH	0.000	

λ HELP

5. GENERAL

Simulation Time*	10	(yr)
Modeled Area Width*	200	(ft)
Modeled Area Length*	250	(ft)
Zone 1 Length*	250	(ft)
Zone 2 Length*	0	(ft)



Zone 2= L - Zone 1

6. SOURCE DATA

TYPE: Decaying
Single Planar

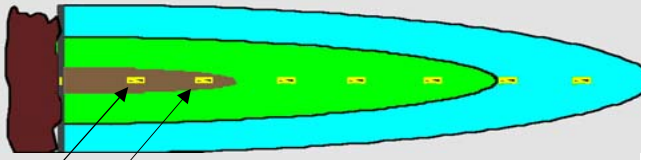
Source Options

Source Thickness in Sat. Zone* 20 (ft)

Width* (ft) Y1 50

Conc. (mg/L)*	C1	k_s* (1/yr)
PCE	.28	0.107
TCE	.11	0.107
DCE		0.107
VC		0.107
ETH		0.107

Vertical Plane Source: Determine Source Well Location and Input Solvent Concentrations



View of Plume Looking Down

Observed Centerline Conc. at Monitoring Wells

7. FIELD DATA FOR COMPARISON

PCE Conc. (mg/L)		.03							.0		
TCE Conc. (mg/L)		.015							.0		
DCE Conc. (mg/L)											
VC Conc. (mg/L)											
ETH Conc. (mg/L)											
Distance from Source (ft)	0	30							230		
Date Data Collected	2013										

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | RUN ARRAY | Help | Restore Formulas | RESET | SEE OUTPUT | Paste Example

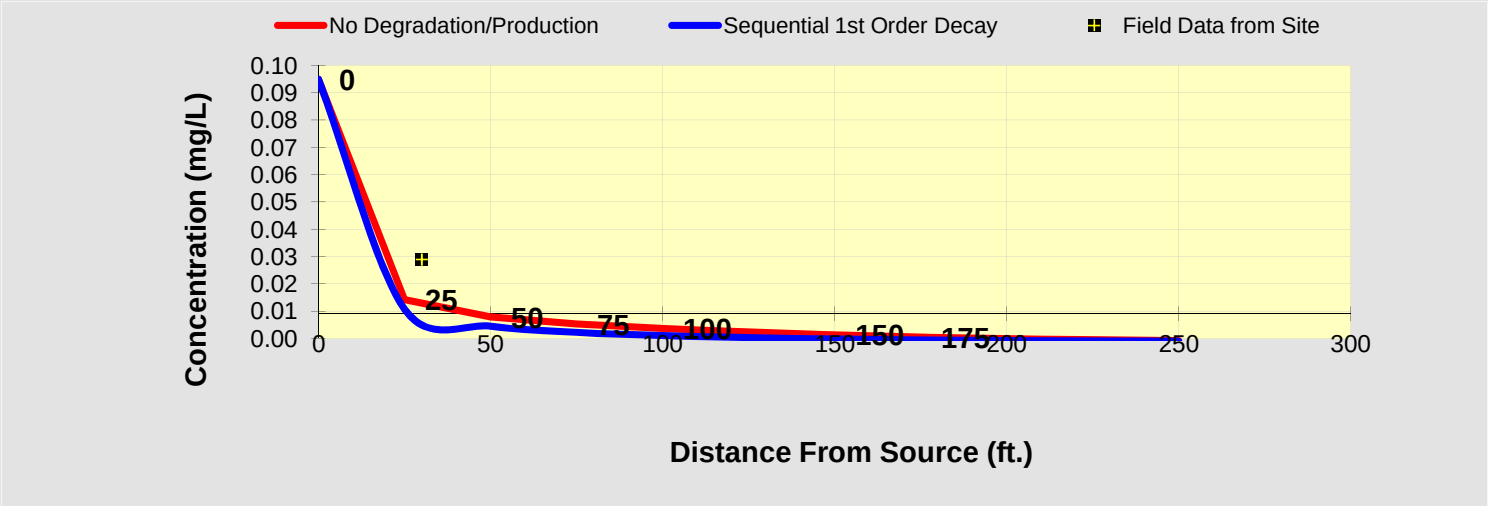
DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

PCE	0	25	50	75	100	125	150	175	200	225	250
No Degradation	0.096	0.015	0.009	0.006	0.005	0.003	0.002	0.002	0.001	0.001	0.000
Biotransformation	0.0960	0.012	0.006	0.003	0.002	0.001	0.001	0.001	0.000	0.000	0.000

Monitoring Well Locations (ft)

	0	30							230		
Field Data from Site		0.030							0.000		



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

10.0 Years

Log ⟺ Linear

Return to Input

To All

To Array

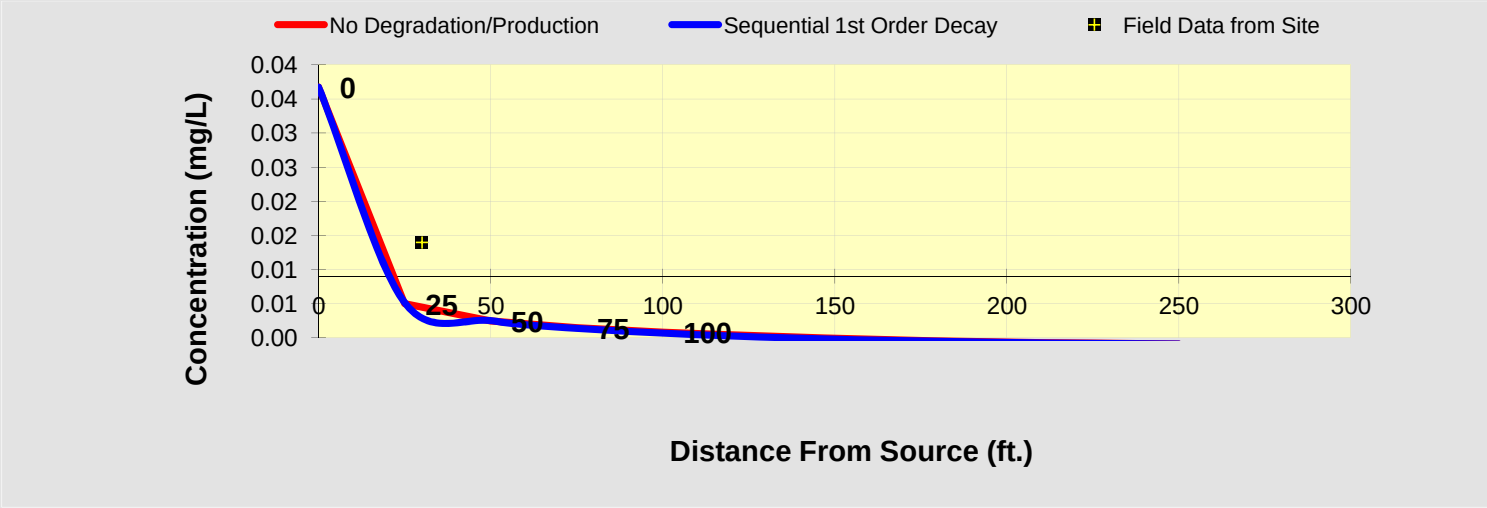
DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

TCE	0	25	50	75	100	125	150	175	200	225	250
No Degradation	0.038	0.006	0.003	0.002	0.002	0.001	0.001	0.001	0.000	0.000	0.000
Biotransformation	0.0377	0.006	0.004	0.002	0.002	0.001	0.001	0.001	0.000	0.000	0.000

Monitoring Well Locations (ft)

	0	30							230		
Field Data from Site		0.015							0.000		



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

10.0 Years

Log ⟺ Linear

Return to Input

To All

To Array

BIOCHLOR Natural Attenuation Decision Support System

Version 2.2
Excel 2000

Apex Village
MW-3 <0.0007 ppm
Run Name

Data Input Instructions:

115 → 1. Enter value directly....or
↑ *or* 2. Calculate by filling in gray
0.02 cells. Press Enter, then (C)
(To restore formulas, hit "Restore Formulas" button)
Variable* → Data used directly in model.

Test if Biotransformation is Occurring → Natural Attenuation Screening Protocol

TYPE OF CHLORINATED SOLVENT: Ethenes ◉ Ethanes ○

1. ADVECTION

Seepage Velocity*	Vs	29.6	(ft/yr)
or			
Hydraulic Conductivity	K	2.5E-04	(cm/sec)
Hydraulic Gradient	i	0.0175	(ft/ft)
Effective Porosity	n	0.15	(-)

2. DISPERSION

Alpha x*	25	(ft)
(Alpha y) / (Alpha x)*	2.5	(-)
(Alpha z) / (Alpha x)*	1.E+00	(-)

Calc. Alpha x

3. ADSORPTION

Retardation Factor* → R

or

Soil Bulk Density, rho	1.5	(kg/L)		
FractionOrganicCarbon, foc	1.0E-3	(-)		
Partition Coefficient	Koc			
PCE	426	(L/kg)	5.26	(-)
TCE	130	(L/kg)	2.30	(-)
DCE	125	(L/kg)	2.25	(-)
VC	30	(L/kg)	1.30	(-)
ETH	302	(L/kg)	4.02	(-)
Common R (used in model)* =			**2.30**	

4. BIOTRANSFORMATION

-1st Order Decay Coefficient*

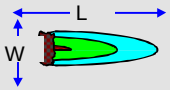
Zone 1	λ (1/yr)	half-life (yrs)	Yield
PCE → TCE	0.330	2.10	0.79
TCE → DCE	0.462	1.50	0.74
DCE → VC	3.300	0.21	0.64
VC → ETH	2.567	0.27	0.45

Zone 2	λ (1/yr)	half-life (yrs)
PCE → TCE	0.000	
TCE → DCE	0.000	
DCE → VC	0.000	
VC → ETH	0.000	

λ HELP

5. GENERAL

Simulation Time*	34	(yr)
Modeled Area Width*	200	(ft)
Modeled Area Length*	250	(ft)
Zone 1 Length*	250	(ft)
Zone 2 Length*	0	(ft)



Zone 2= L - Zone 1

6. SOURCE DATA

TYPE: Decaying
Single Planar

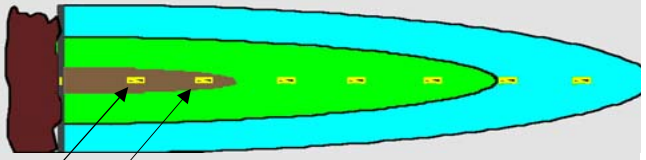
Source Options

Source Thickness in Sat. Zone* 20 (ft)

Y1
Width* (ft) 50

Conc. (mg/L)*	C1	k_s* (1/yr)
PCE	.28	0.107
TCE	.11	0.107
DCE		0.107
VC		0.107
ETH		0.107

Vertical Plane Source: Determine Source Well Location and Input Solvent Concentrations



View of Plume Looking Down

Observed Centerline Conc. at Monitoring Wells

7. FIELD DATA FOR COMPARISON

PCE Conc. (mg/L)		.03							.0		
TCE Conc. (mg/L)		.015							.0		
DCE Conc. (mg/L)											
VC Conc. (mg/L)											
ETH Conc. (mg/L)											
Distance from Source (ft)	0	30							230		
Date Data Collected	2013										

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | RUN ARRAY | Help | Restore Formulas | RESET | SEE OUTPUT | Paste Example

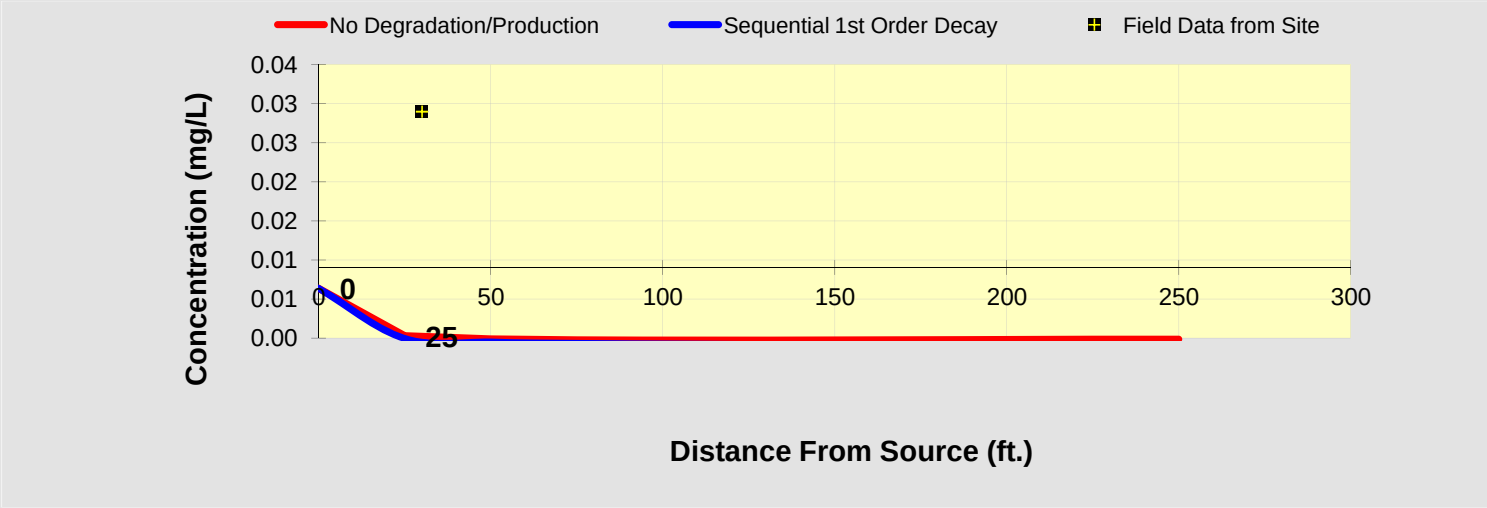
DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

PCE	0	25	50	75	100	125	150	175	200	225	250
No Degradation	0.007	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Biotransformation	0.0074	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Monitoring Well Locations (ft)

	0	30							230		
Field Data from Site		0.030							0.000		



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

34.0 Years

Log ⟺ Linear

Return to Input

To All

To Array

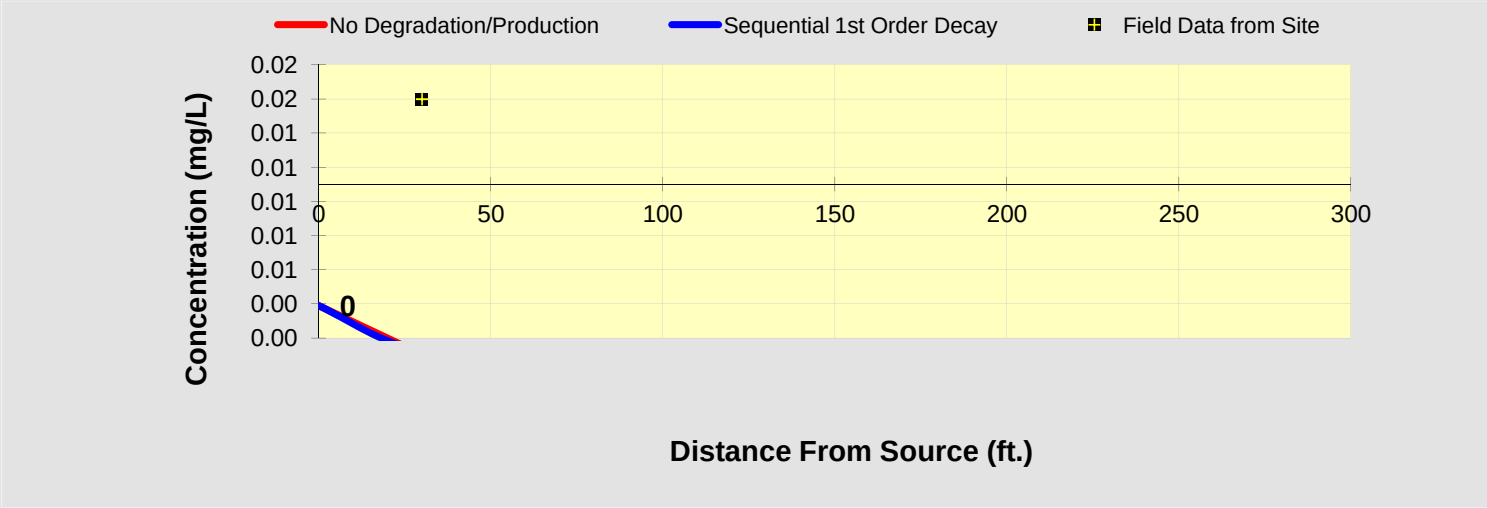
DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

TCE	0	25	50	75	100	125	150	175	200	225	250
No Degradation	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Biotransformation	0.0029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Monitoring Well Locations (ft)

	0	30							230		
Field Data from Site		0.015							0.000		



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

34.0 Years

Log ⟺ Linear

Return to Input

To All

To Array

APPENDIX J

SOIL BORING LOGS AND WELL CONSTRUCTION DIAGRAMS

(Soil boring logs for S-1/GW-1, S-2/GW-2, S-3, GW-3, and GW-4 are presented in Appendix F. Soil boring logs for SB-1 through SB-8 are presented in Appendix G.)

Mill Creek Environmental Services
1818 Perimeter Rd.
Dawsonville, Georgia 30534
ENVIRONMENTAL SERVICES

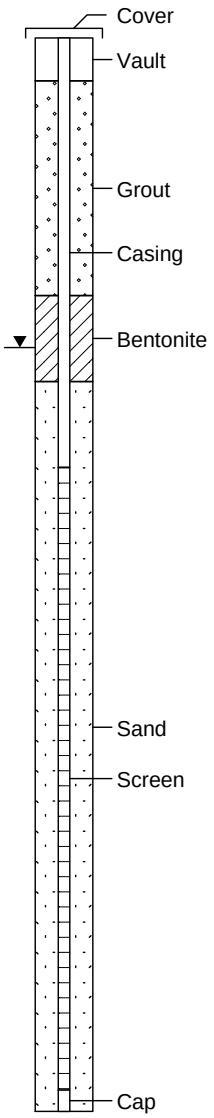
LOG OF BORING MW-1

Apex Village
500-610 East Williams Street
Apex, North Carolina 37501

Date Installed	: 6-17-13	Ground Elevation	: 471.91'
Logged By	: DWP	GW Elevation	: 7.21' BTOC
Drilling Company	: Quantex	Date Measured	: 6-18-13
Drilling Method	: 6" SSA		
TOC Elevation	: 471.61'		

Well1: MW-1
Elev.: 471.61'

Depth in Feet	Samples	Lab No.	DESCRIPTION	USCS
0			3", Asphalt, gravel base.	FL
	1		Silty Clay, little medium grained sand, mottled, Tan/Reddish Brown, damp.	CL
5	2		Softer, looser, increase in moisture.	CL
10	3			CL
15	4		Saturated @ 17' BGS	CL
20	5		Clayey sand and silt, tan/reddish/brown, banded, coarse to fine grain sand.	SC
25				
30				



Boring Terminated at 25' BGS

Boring Depth: 25' Boring Diameter: 6"
Well Depth: 25' Well Diameter: 2"
Well Material: PVC Screen Slot: 0.010"
Casing: 0-10' Screen: 10-25'
Bottom Cap: 25' Sand: 8-25'
Bentonite: 6-8' Grout: 1-6'

Mill Creek Environmental Services
1818 Perimeter Rd.
Dawsonville, Georgia 30534

ENVIRONMENTAL SERVICES

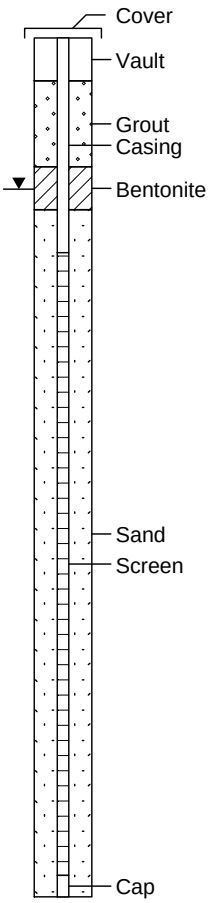
LOG OF BORING MW-2

Apex Village
500-610 East Williams Street
Apex, North Carolina 37501

Date Installed	: 6-17-13	Ground Elevation	: 457.75'
Logged By	: DWP	GW Elevation	: 3.52' BTOC
Drilling Company	: Quantex	Date Measured	: 6-18-13
Drilling Method	: 6" SSA		
TOC Elevation	: 457.45'		

Depth in Feet	Samples	Lab No.	DESCRIPTION	USCS	GRAPHIC
0			Asphalt to 4", gravel base.	FL	
	1, 2		Sandy Clay, medium to very fine grained, mottled, tan/reddish brown, , little plastic, damp	CL	
10	3		Clayey Sand, Tan/Pink	SC	
15	4		Silty sand, coarse to fine grained, tan damp Same as above.	SM	
20					

Well1: MW-2
Elev.: 457.45'



Boring Terminated at 20' BGS

Boring Depth: 20' Boring Diameter: 6"
Well Depth: 20' Well Diameter: 2"
Well Material: PVC Screen Slot: 0.010"
Casing: 0-5' Screen: 5-20'
Bottom Cap: 20' Sand: 4-20'
Bentonite: 3-4' Grout: 1-3'

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Mill Creek Environmental Services
1818 Perimeter Rd.
Dawsonville, Georgia 30534
ENVIRONMENTAL SERVICES

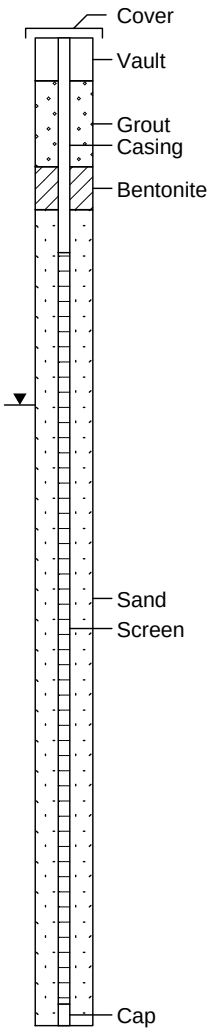
LOG OF BORING MW-3

Apex Village
500-610 East Williams Street
Apex, North Carolina 37501

Date Installed	: 6-17-13	Ground Elevation	: 465.11'
Logged By	: DWP	GW Elevation	: 8.55' BTOC
Drilling Company	: Quantex	Date Measured	: 6-18-13
Drilling Method	: 6" SSA		
TOC Elevation	: 464.81'		

Depth in Feet	Samples	Lab No.	DESCRIPTION	USCS	GRAPHIC
0			Asphalt, gravel base.	FL	
	1, 2		Clayey/Silty Sand, fine to very fine, mottled, Brown/Gray, damp No recovery	SC	
10	3, 4		Silty Clay, fine grained, mottled and banded, Tan/Reddish brown, damp,	CL	
			Grayish brown, silty sand, wet @ 18'.	SM	
20	5		Silty Clay, banded, orangish/tan/brown, damp. Saturated @21' BGS.	CL	
25					
30					

Well1: MW-3
Elev.: 464.81'



Boring Terminated at 25' BGS

Boring Depth: 25' Boring Diameter: 6"
Well Depth: 23' Well Diameter: 2"
Well Material: PVC Screen Slot: 0.010"
Casing: 0-5' Screen: 5-23'
Bottom Cap: 23' Sand: 4-23'
Bentonite: 3-4' Grout: 1-3'

Mill Creek Environmental Services
1818 Perimeter Rd.
Dawsonville, Georgia 30534

ENVIRONMENTAL SERVICES

LOG OF BORING MW-4

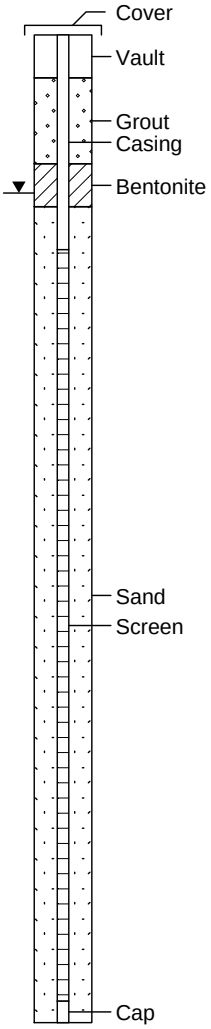
Apex Village
500-610 East Williams Street
Apex, North Carolina 37501

Date Installed	: 6-17-13	Ground Elevation	: 463.48'
Logged By	: DWP	GW Elevation	: 3.68' BTOC
Drilling Company	: Quantex	Date Measured	: 6-18-13
Drilling Method	: 6" SSA		
TOC Elevation	: 463.18'		

Depth in Feet	Samples	Lab No.	DESCRIPTION	USCS
0			Asphalt to 4"	FL
	1		Silty Clay, Reddish brown, hard, dry.	CL
5	2		Silty Clay, Reddish brown, hard, dry.	CL
10	3	MW-4 12'	Moist.	CL
15			Silty Sand, Dark brown, damp to moist.	SM
	4	MW-4 16'	Silty Clay, banded, Reddish/brown/pink, moist. Saturated @ 18' BGS.	CL
20	5			CL
25				
30				

GRAPHIC

Well1: MW-4
Elev.: 463.18'



Boring Terminated at 23' BGS

Boring Depth: 23' Boring Diameter: 6"
Well Depth: 23' Well Diameter: 2"
Well Material: PVC Screen Slot: 0.010"
Casing: 0-5' Screen: 5-23'
Bottom Cap: 23' Sand: 4-23'
Bentonite: 3-4' Grout: 1-3'

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Mill Creek Environmental Services
1818 Perimeter Rd.
Dawsonville, Georgia 30534

ENVIRONMENTAL SERVICES

LOG OF BORING MW-5

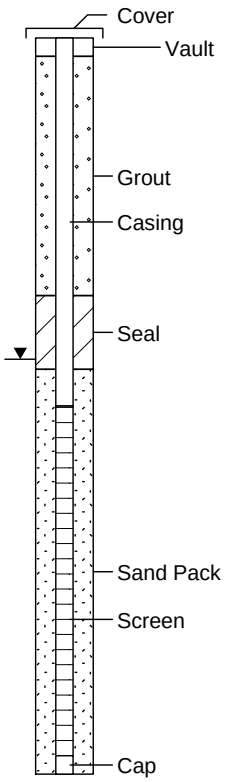
Apex Village
500-610 East Williams Street
Apex, North Carolina 37501

Date Installed	: 9-12-13
Logged By	: DWP
Drilling Company	: Quantex
Drilling Method	: 6" SSA
TOC Elevation	: 463.20'
Ground Elevation	: 463.50'
Depth to GW	: 8.73' BTOC
Date Measured	: 9-12-13

Depth in Feet	Samples	% REC	DESCRIPTION	USCS
0			Hand Auger to 4-feet BGS, 4" Asphalt, gravalt base.	FL
5	1	60	Silty Clay, Reddish brown, tan mottled medium to fine grained, soft, moist.	FL
10	2	20	Silty Clay, Color change to light brown, gray mottled, organics, roots (topsoil).	CL
15	3	100	Saturated at 14' BGS Silty Sand, light brown, loose, saturated (perched water) coarse to very fine grained , rounded grains. Graded to saprolitic soil, faint banding (weatherd bedrock), tan/gray, dry. Probe refusal @ 20.5' BGS	SM
20				
25				
30				
35				

GRAPHIC

Well1: MW-5
Elev.: 463.20'



Boring Depth: 20.5'
Boring Diameter: 6"
Well Depth: 20'
Well Diameter: 2"
Well Material: PVC
Screen Slot: 0.010"
Casing: 0-10'
Screen: 10-20'
Bottom Cap: 20'
Sand: 9-20'
Bentonite: 7-9'
Grout: 0.5-7'

Mill Creek Environmental Services
1818 Perimeter Rd.
Dawsonville, Georgia 30534

ENVIRONMENTAL SERVICES

LOG OF BORING MW-6

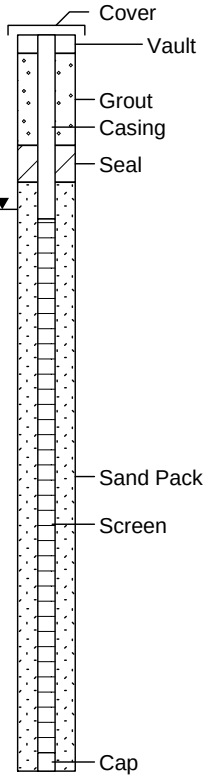
Apex Village
500-610 East Williams Street
Apex, North Carolina 37501

Date Installed	: 9-12-13	Ground Elevation	: 456.23'
Logged By	: DWP	Depth to GW	: 4.74' BTOC
Drilling Company	: Quantex	Date Measured	: 9-12-13
Drilling Method	: 6" SSA		
TOC Elevation	: 455.93'		

Depth in Feet	Samples	% REC	DESCRIPTION	USCS
0			Hand Auger to 4-feet BGS	FL
5	1	80	Sandy clay, coarse to fine grained, little silt, some sand, bluish gray/brown mottles with reddish brown streaks, medium firm, moist.	CL
10	2	20	Saturated at 14' BGS.	
15	3	50	Silty Sand, weathered granitic bedrock texture, coarse to very fine grained, black, tan, gray banded, saturated, very firm, trace mica, little silt Probe refusal @ 19' BGS, augers extended to 20' BGS.	SM
20				
25				
30				
35				

GRAPHIC

Well1: MW-6
Elev.: 455.93'



Boring Depth: 20'
Boring Diameter: 6"
Well Depth: 20'
Well Diameter: 2"
Well Material: PVC
Screen Slot: 0.010"
Casing: 0-5'
Screen: 5-20'
Bottom Cap: 20'
Sand: 4-20'
Bentonite: 3-4'
Grout: 0.5-3'

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Mill Creek Environmental Services
1818 Perimeter Rd.
Dawsonville, Georgia 30534

ENVIRONMENTAL SERVICES

LOG OF BORING MW-7

Apex Village
500-610 East Williams Street
Apex, North Carolina 37501

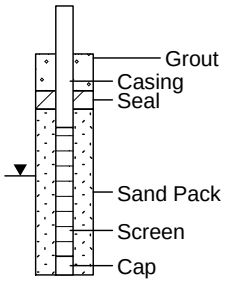
Date Installed	: 9-12-13	Ground Elevation	: NM
Logged By	: DWP	Depth to GW	: 6.31' BTOC
Drilling Company	: Quantex	Date Measured	: 9-12-13
Drilling Method	: Hand Auger		
TOC Elevation	: 458.36'		

Depth in Feet	Samples	% REC	DESCRIPTION	USCS	GRAPHIC
0			Top soil, dark brown, roots, organics, damp. Silty Clay, medium to fine grained, some sand, some silt.	CL	
			Clay sand, medium to fine grained, saturated, loose, medium gray. Boring Terminatedl @ 7' BGS, refusal on tree roots.	SC	
5					
10					
15					
20					
25					
30					
35					

Boring Depth: 7'
Well Depth: 6'
Well Material: PVC
Casing: 0-2'
Bottom Cap: 6'
Bentonite: 1-1.5'

Boring Diameter: 3"
Well Diameter: 2"
Screen Slot: 0.010"
Screen: 2-6'
Sand: 1.5-6'
Grout:0-1'

Well1: MW-7
Elev.: 458.36



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APPENDIX K

MONITORING WELL DEVELOPMENT AND GROUNDWATER SAMPLING LOGS

Well Development and Water Quality Log Sheet

Project Apex Village AV-1301-6 Personnel D. PAYNE Equipment Horiba U53/ Peristaltic pump and bailer

Well ID MW-1 Date 6-18-13 Start Time 0

End Time

Time	Purge Volume (cumulative gal)	DO (mg/l)	pH (std units)	Temp. (oC)	Cond. (uS/m)	Turb. (NTU)	ORP (mV)		
0920	1	4.81	5.56	22.19	77	~~402~~	295		
0933	2.5	4.80	4.99	21.89	64	~~[illegible]~~	318		
0944	4	3.92	4.78	21.96	66	11.9	351		
0957	6	3.58	4.68	21.96	64	~~[illegible]~~ 1000	338	Tube slipped Down	
1003	7	5.4	4.65	21.89	63	12.7	352		
1009	8	5.26	4.62	21.84	63	654	374		
1020	9	4.12	4.47	21.89	63	>1000	334		
1045	12	4.07	4.33	21.88	63	>1000	346	switch to Bailer	
1100	14	4.10	4.38	21.91	63	>1000	342		
				Terminate Development					
1415	GW sample by bailer dipped gently						~~[illegible]~~ VOC 8260B+		
		3.74	4.70	22.88	107	54	310	NAPh.	

Purge 3-5 well volumes or until well is dry.
2-inch well = 0.17 gallons/foot of water.

Well Depth 23.52

Water Level (-) 7.21

Water Colum 16.31

0.17 g/ft (x) 2.77 One Well Volume

3 Well Volumes (x) 8.32 Minimum Purge Volume

Well Development and Water Quality Log Sheet

Project AV-1301-6 Personnel D. Payne Equipment Bailer/Horiba U53

Well ID MW-2 Date 6-18-13 Start Time 1109

End Time 1207

Time	Purge Volume (cumulative gal)	DO (mg/l)	pH (std units)	Temp. (oC)	Cond. (uS/m)	Turb. (NTU)	ORP (mV)		
1116	1	7.74	4.87	22.50	103	740	274		
1122	2.5	4.29	4.5	22.22	134	904	261		
1127	4	7.95	4.49	22.05	153	915	262		
1132	5	7.83	4.40	21.94	182	431	254		
1139	7	4.68	4.55	21.66	181	877	253		
1144	8	4.42	4.35	21.63	159	980	263		
1146	9	3.86	4.38	~~21.68~~ 21.69	165	718	268		
1149	10	4.40	4.30	21.63	188	374	277		
1155	12	4.42	4.32	21.64	176	355	278		
~~[illegible]~~ 1202	14	4.38	4.30	21.66	172	319	275		
1445	Collected GW Sample MW-2 for VOCs 8260B, + Naphthalene								
Params @ time of sampling		3.8	4.91	24.92	148	64.8	280		

Purge 3-5 well volumes or until well is dry.
2-inch well = 0.17 gallons/foot of water.

Well Depth 20'

Water Level (-) 3.52

Water Colum 16.48

0.17 g/ft (x) 2.8 One Well Volume

3 Well Volumes (x) 8.4 Minimum Purge Volume

x5 = 14

Field Parameter Log.xls

Well Development and Water Quality Log Sheet

Project AV-1301-6 Personnel D. PAINE Equipment Solar Horiba U53

Well ID MW-3 Date 6-18-13 Start Time 1201

End Time 1255

Time	Purge Volume (cumulative gal)	DO (mg/l)	pH (std units)	Temp. (oC)	Cond. (uS/m)	Turb. (NTU)	ORP (mV)		
1206	1	4.60	4.64	22.16	111	>1000	271		
1211	2.5	4.44	4.63	22.40	97	>1000	308		
1215	4.0	4.69	4.38	22.13	90	573	344		
1228	6.0	4.64	4.36	22.11	86	>1000	349		
1232	7.5	4.66	4.26	21.93	85	>1000	358		
1239	10	4.71	4.28	22.04	82	>1000	365		
1242	11	4.80	4.27	21.95	83	>1000	364		
1247	12	4.77	4.26	21.96	79	>1000	360		
1255	13	4.76	4.26	21.95	78	>1000	358		
1500	Collect	GW	Sample	MW-3	for	VOCs	8260B		
Params @ time		+	Naphthalene						
of sampling		5.03	4.98	24.97	82	25.4	256		

Purge 3-5 well volumes or until well is dry.
2-inch well = 0.17 gallons/foot of water.

Well Depth 23

Water Level (-) 8.55

Water Colum 14.45

0.17 g/ft (x) 2.5 One Well Volume

5 Well Volumes (x) 12.5 Minimum Purge Volume

Well Development and Water Quality Log Sheet

Project AV-138-6 Personnel D. Payne Equipment Bailer/Honda U53

Well ID MW-4 Date 6-18-13 Start Time 1250

End Time

Time	Purge Volume (cumulative gal)	DO (mg/l)	pH (std units)	Temp. (oC)	Cond. (uS/m)	Turb. (NTU)	ORP (mV)		
1301	1	4.03	4.51	22.82	95	>1000	259		
1308	2.5	2.84	4.73	24.06	131	>1000	299		
1314	5	2.12	4.54	23.88	135	>1000	296		
1320	7.5	2.83	4.53	23.81	134	>1000	298		
1326	10	2.96	4.51	23.17	128	492	298		
1335	12	3.11	4.51	21.91	126	765	300		
1340	14	3.05	4.48	21.86	127	>40	301		
1344	15	2.98	4.45	21.76	131	687	300		
1351	16.5	2.85	4.49	21.71	127	623	302		
1520	Collect GW Sample MW-4 for VOCs, SVOCs + 10 TICs, VPH, EPH, chromium, Lead								
Params on line of sampling									
		2.94	4.63	25.54	113	69.6	365		

Purge 3-5 well volumes or until well is dry.
2-inch well = 0.17 gallons/foot of water.

Well Depth 23'

Water Level (-) 3.68

Water Colum 19.32

0.17 g/ft (x) 3.3 One Well Volume

3 Well Volumes (x) 9.8 Minimum Purge Volume

x5 = 16.5

Field Parameter Log.xls

Apex Village
AV-1301-7

well Development and

GROUNDWATER SAMPLING FIELD PARAMETER DATA SHEET

Well No. MW-5
Date: 9-12-13
Sampling Equipment: Bailer / Horiba U53
Sampler(s) D. PAYNE
Weather: Sunny / Hot 92°F
Well Depth (ft/BTOC): 20'

Screened Interval (ft/BTOC) 10-20
Well Diameter (in) 2"
Depth to Water (ft/BTOC) 8.73 ft BTOC
Water Column (ft) 11.27
Well Volume (gal) 1.92 X5 = 9.6 gal
~~Initial Pump Depth (ft/BTOC)~~

Time	Purge Volume	Cumulative Purge Volume	Depth to Water	Temp. °C	pH std units	ORP mV	Cond. mS/cm	Turbidity NTU	DO mg/l
1330	0.25	0.25		27.05	6.43	-11	0.207	>1000	0.84
1332		2.5		25.68	5.9	62	0.278	>1000	3.85
1350		5.0		25.42	5.89	67	0.305	>1000	4.49
1353		7.5		24.66	5.81	73	0.272	>1000	3.34
1356		9.0		24.68	5.67	68	0.292	>1000	2.32
1359		11.0		24.67	5.68	69	0.287	>1000	2.42
1404		13.0		24.66	5.67	69	0.283	>1000	2.38

Sample Collection Time: 1540 Analytical Parameters: VOCs

Remarks:

Volume Calculation, 2-inch well: Water Column (ft) * 0.17 (gal/ft) = Well Volume (gal)
Volume Calculation, 4-inch well: Water Column (ft) * 0.65 (gal/ft) = Well Volume (gal)

Apex Village
AV-1301-7

Well Development and

GROUNDWATER SAMPLING FIELD PARAMETER DATA SHEET

Well No. MW-6
Date: 9-12-13
Sampling Equipment: bailer/Horiba U53
Sampler(s) David Payne
Weather: Sunny Hot 92°F
Well Depth (ft/BTOC): 20'

Screened Interval (ft/BTOC) 5-20
Well Diameter (in) 2"
Depth to Water (ft/BTOC) 4.74
Water Column (ft) 15.26
Well Volume (gal) 2.6 x 5 ≈ 13
~~Initial Pump Depth (ft/BTOC)~~:

Time	Purge Volume	Cumulative Purge Volume	Depth to Water	Temp. °C	pH std units	ORP mV	Cond. mS/cm	Turbidity NTU	DO mg/l
1422		0.25		25.00	5.81	147	0.109	>1000	10.67
1427		2.0		23.87	5.62	89	0.110	>1000	6.94
1433		5.0		22.97	5.52	94	0.094	>1000	6.54
1437		7.0		21.92	5.41	220	0.057	>1000	6.82
1443		10.0		20.84	5.37	223	0.045	>1000	6.81
1450		13.0		20.65	5.47	199	0.053	>1000	6.82
1455		15.0		20.68	5.42	215	0.051	>1000	6.81

Sample Collection Time: 1525 Analytical Parameters: VOCs

Remarks:

Volume Calculation, 2-inch well: Water Column (ft) * 0.17 (gal/ft) = Well Volume (gal)
Volume Calculation, 4-inch well: Water Column (ft) * 0.65 (gal/ft) = Well Volume (gal)

Well Development and Water Quality Log Sheet

Project AV-1301-7 Personnel David Payne Equipment bailer/Horiba U53

Well ID MW-7 Date 9-12-13 Start Time _____

End Time _____

Time	Purge Volume (cumulative gal)	DO (mg/l)	pH (std units)	Temp. (oC)	Cond. (uS/m)	Turb. (NTU)	ORP (mV)		
1504	0.25	4.03	5.49	21.98	0.109	>1000	140	well Bail DRY	
1530	0.75	5.56	5.81	21.59	0.092	>1000	156	at 0.5 gal (let recharge)	
								DRY again @ 1gal (let Recharge)	
1550	→	Collect GW	Sample ⇒ VOCS						

Purge 3-5 well volumes or until well is dry.
2-inch well = 0.17 gallons/foot of water.

Well Depth 9.90 BTOC

Water Level (-) 6.31 BTOC

Water Colum 3.59

0.17 g/ft.(x) 0.61 One Well Volume

5 Well Volumes (x) 3.05 Minimum Purge Volume

DBV.

9.90
6.31
3.59
x .17
3 0.61

GW sample collected for VOCs

Field Parameter Log.xls

GROUNDWATER SAMPLING FIELD PARAMETER DATA SHEET

Well No. MW-1
Date: 12-17-13
Sampling Equipment: Peristaltic Pump/Teflon lined tubing
Sampler(s) David Payne Horiba U53
Weather: Sunny, Cool
Well Depth (ft/BTOC): 23 ft

Screened Interval (ft/BTOC) 5-23'
Well Diameter (in) 2"
Depth to Water (ft/BTOC) 10.15'
Water Column (ft) 12.85'
Well Volume (gal) 2.18 x 3 = 6.55
Initial Pump Depth (ft/BTOC): 15'

				Temp.	pH	ORP	Cond.	Turbidity	DO
Time	Purge Volume	Cumulative Purge Volume	Depth to Water	°C	std units	mV	mS/cm	NTU	mg/l
0915	0.5	1.5	10.28	21.24	4.47	NOT measured	70.0	45.05	3.85
0917	0.5	2	10.29	21.18	4.46		71.0	31.80	3.66
0921	0.5	2.5	10.29	21.19	4.43		70.0	26.80	4.06
0925	0.5	3	10.29	21.17	4.38		71.0	56.70	4.12
0929	0.5	3.5	10.30	21.10	4.35		71.0	63.80	4.13
0933	0.5	4	10.30	20.97	4.36		71.0	63.80	4.14
0937	0.5	4.5	10.31	20.89	4.35		70.0	49.10	4.14
0942	0.5	5	10.31	20.91	4.35		70.0	48.60	4.13
0947	0.5	5.5	10.31	20.94	4.34		70.0	47.20	4.14

Sample Collection Time: 0955
Analytical Parameters: VOCs, Methane, Ethane, Ethene
Fe^{2+}, SO_3, SO_4, NO_4/NO_3

Remarks:

Volume Calculation, 2-inch well: Water Column (ft) * 0.17 (gal/ft) = Well Volume (gal)
Volume Calculation, 4-inch well: Water Column (ft) * 0.65 (gal/ft) = Well Volume (gal)

GROUNDWATER SAMPLING FIELD PARAMETER DATA SHEET

Well No. MW-2
Date: 12-17-13
Sampling Equipment: Peristaltic Pump, Horiba U-53
Sampler(s) David Payne
Weather: Sunny/Cool
Well Depth (ft/BTOC): 20'

Screened Interval (ft/BTOC) 5-20'
Well Diameter (in) 2"
Depth to Water (ft/BTOC) 3.79'
Water Column (ft) 16.21
Well Volume (gal) 2.75
Initial Pump Depth (ft/BTOC): 16'

Time	Purge Volume	Cumulative Purge Volume	Depth to Water	Temp. C	pH std units	ORP mV	Cond. mS/cm	Turbidity NTU	DO mg/l
1431	0.5	0.5	3.79	20.44	4.92	329	14	92.2	4.25
1436	0.5	1.0	3.79	20.41	4.90	335	14	52.1	4.08
1441	0.5	1.5	3.80	20.28	4.86	346	15	39.6	4.09
1447	0.5	2.0	3.81	20.25	4.86	335	15	33.0	3.99
1455	collect GW Sample MW-2								

Sample Collection Time: 1455

Analytical Parameters: VOCs, methane/Ethane/Ethene, NO_4, NO_3, SO_4, SO_3, Cl, Fe^{2+}

Remarks:

Volume Calculation, 2-inch well: Water Column (ft) * 0.17 (gal/ft) = Well Volume (gal)
Volume Calculation, 4-inch well: Water Column (ft) * 0.65 (gal/ft) = Well Volume (gal)

GROUNDWATER SAMPLING FIELD PARAMETER DATA SHEET

Well No. MW-3
Date: 12-17-13
Sampling Equipment: Horiba U53, Peristaltic Pump
Sampler(s) David Payne
Weather: Sunny, Cool
Well Depth (ft/BTOC): 23

Screened Interval (ft/BTOC) 5-23'
Well Diameter (in) 2"
Depth to Water (ft/BTOC) 9.48
Water Column (ft) 13.52'
Well Volume (gal) 2.3
Initial Pump Depth (ft/BTOC): 15'

				Temp.	pH	ORP	Cond.	Turbidity	DO
Time	Purge Volume	Cumulative Purge Volume	Depth to Water	°C	std units	mV	mS/cm	NTU	mg/l
1207	0.5	0.5	9.48	20.09	5.45	99	119	103	3.19
1215	0.5	1.0	9.49	21.64	4.84	272	88	50.9	4.43
1221	0.5	1.5	9.51	21.74	4.72	314	89	28.7	4.24
1228	0.5	2.0	9.50	21.81	4.73	319	89	16.1	4.20
1235	0.5	2.5	9.51	21.88	4.72	321	83	12.4	4.18

Sample Collection Time: 1245 Analytical Parameters: VOCs, Methane/Ethane/Ethene
SO_4, SO_3, NO_3, NH_4, Cl, Fe^{2+}

Remarks:

Volume Calculation, 2-inch well: Water Column (ft) * 0.17 (gal/ft) = Well Volume (gal)
Volume Calculation, 4-inch well: Water Column (ft) * 0.65 (gal/ft) = Well Volume (gal)

GROUNDWATER SAMPLING FIELD PARAMETER DATA SHEET

Well No. MW-4
Date: 12-17-13
Sampling Equipment: Horiba U53, Peristaltic
Sampler(s) David Payne
Weather: Sunny/Cool
Well Depth (ft/BTOC): 23

Screened Interval (ft/BTOC) 5-23'
Well Diameter (in) 2"
Depth to Water (ft/BTOC) 6.80
Water Column (ft) 16.20
Well Volume (gal) 2.75
Initial Pump Depth (ft/BTOC): 18

				Temp.	pH	ORP	Cond.	Turbidity	DO
Time	Purge Volume	Cumulative Purge Volume	Depth to Water	°C	std units	mV	mS/cm	NTU	mg/l
1334	0.5	0.5	6.81	21.74	4.71	346	24.0	69.5	3.39
1336	0.5	1.0	6.82	21.56	4.70	370	26	64.80	2.98
1339	0.5	1.5	6.82	21.27	4.69	381	26	51.5	3.27
1344	0.5	2.0	6.83	21.18	4.68	388	26	34.5	3.20
1348	0.5	2.5	6.84	21.12	4.66	399	26	20.2	3.05

Sample Collection Time: 1400 Analytical Parameters: VOCs, Ethen/Ethane/Ethene, SO_4, SO_3, NO_4, NO_3, Cl, Fe^{2+}

Remarks:

Volume Calculation, 2-inch well: Water Column (ft) * 0.17 (gal/ft) = Well Volume (gal)
Volume Calculation, 4-inch well: Water Column (ft) * 0.65 (gal/ft) = Well Volume (gal)

GROUNDWATER SAMPLING FIELD PARAMETER DATA SHEET

Well No. MW-5
Date: 12-17-13
Sampling Equipment: Horiba U53
Sampler(s) David Payne
Weather: Sunny/Cool
Well Depth (ft/BTOC): 20'

Screened Interval (ft/BTOC) 10-20
Well Diameter (in) 2"
Depth to Water (ft/BTOC) 7.88
Water Column (ft) 12.12
Well Volume (gal) 2.06
Initial Pump Depth (ft/BTOC): 15'

				Temp.	pH	ORP	Cond.	Turbidity	DO
Time	Purge Volume	Cumulative Purge Volume	Depth to Water	°C	std units	mV	mS/cm	NTU	mg/l
1049	0.5	0.5	7.90	20.11	5.14	231	156	118	3.02
1054		1.0	7.91	18.58	6.13	-54	176	93.5	1.21
10:59		1.5	7.91	18.33	6.17	-61	176	151	0.66
1102		2.0	7.92	18.27	6.16	-64	176	111	0.59
1107		2.5	7.92	18.12	6.17	-71	179	68.4	0.54
1112		3.0	7.92	18.14	6.17	-76	178	59.6	0.52
1117		3.5	7.93	18.07	6.17	-79	178	51.9	0.51
1120		4.0	7.93	18.03	6.17	-82	178	39.9	0.48
1124		4.5	7.93	18.01	6.17	-84	178	28.0	0.52
1129		5.0	7.93	17.99	6.17	-87	179	26.2	0.50
1134		5.5	7.93	17.99	6.17	-86	179	26.0	0.51
1138	✓	6.0	7.93	17.99	6.17	-86	179	25.7	0.50

Sample Collection Time: 1145 Analytical Parameters: VOCs, Methane/Ethane/Ethene, Fe^{2+}, Cl, SO_4, SO_3, NO_4, NO_3

Remarks:

Volume Calculation, 2-inch well: Water Column (ft) * 0.17 (gal/ft) = Well Volume (gal)
Volume Calculation, 4-inch well: Water Column (ft) * 0.65 (gal/ft) = Well Volume (gal)

GROUNDWATER SAMPLING FIELD PARAMETER DATA SHEET

Well No. MW-6
Date: 12-17-13
Sampling Equipment: Horiba U53/Flowcell/Peristaltic/ Teflon lined Tubing
Sampler(s) David Payne
Weather: cold, sunny
Well Depth (ft/BTOC): 20"

Screened Interval (ft/BTOC) 5-20
Well Diameter (in) 2"
Depth to Water (ft/BTOC) 3.3 ft BTOC
Water Column (ft) 16.7
Well Volume (gal) 2.84 x3 = 8.52
Initial Pump Depth (ft/BTOC): ~~8.52~~ 15.0

Time	Purge Volume	Cumulative Purge Volume	Depth to Water	Temp. °C	pH (A) std units	ORP mV	Cond. (A) µS/cm	Turbidity NTU	DO (A) mg/l
1526	0.5	0.5	3.79	19.24	5.20	258	23	250	3.16
1531	0.5	1.0	3.81	17.89	5.78	160	40	68.6	2.17
1534	0.5	1.5	3.82	16.45	5.59	69	50	28.5	1.26
1537	0.5	2.0	3.82	15.85	5.78	12	55	19.2	0.7
1539	0.5	2.5	3.81	15.77 ✓	5.81 ✓	4	58 ✓	11.8	0.63 ✓
1542	0.5	3.0	3.81	15.58 ✓	5.86 ✓	-11	67 ✓	8.68	0.53 ✓
1545	0.5	3.5	3.81	15.54 ✓	5.88 ✓	-15	69 ✓	21.8	0.52 ✓
1548	0.5	4.0	3.81	15.54 ✓	5.90 ✓	-20	70 ✓	4.28	0.48 ✓
1551	0.5	4.5	3.81	15.56 ✓	5.89 ✓	-21	71 ✓	4.70	0.46 ✓

Sample Collection Time: 1600 Analytical Parameters: VOCs, methane/ethane/ethene, Cl, Fe^{2+}, SO_3, SO_4, NO_2/NO_3

Remarks:

Pinkish orange suspended material (Bacteria?)
Did not appear to affect turbidity

Volume Calculation, 2-inch well: Water Column (ft) * 0.17 (gal/ft) = Well Volume (gal)
Volume Calculation, 4-inch well: Water Column (ft) * 0.65 (gal/ft) = Well Volume (gal)

GROUNDWATER SAMPLING FIELD PARAMETER DATA SHEET

Well No. MW-7
Date: 12-17-13
Sampling Equipment: Peristaltic/Teflon Lined Tubing, Horiba U53 Flow thru cell
Sampler(s) David Payne
Weather: Cool/sunny
Well Depth (ft/BTOC): 9.9 (BTOC)

Screened Interval (ft/BTOC) 2-6
Well Diameter (in) 2"
Depth to Water (ft/BTOC) 4.6
Water Column (ft) 5.3
Well Volume (gal) .22 X 3 = 0.66
Initial Pump Depth (ft/BTOC): 6.5

Time	Purge Volume	Cumulative Purge Volume	Depth to Water	Temp. °C	pH std units	ORP mV	Cond. µS/cm	Turbidity NTU	DO mg/l
1626	0.5	0.5	4.90	13.45	5.27	156	1300	42.5	12.02
1630	0.5	1.0	4.91	13.39	5.15 ✓	150	301	29.6	5.02
1635	0.5	1.5	4.92	13.20	5.18 ✓	134	183	26.2	2.07
1640	0.5	2.0	4.92	13.00	5.25 ✓	122	225 x	20.8	1.67 x
1645	0.5	2.5	4.93	13.01	5.26 ✓	128	218 ✓	20.4	1.66 ✓
1650	0.5	3.0	4.92	13.00	5.26 ✓	134	209 ✓	19.1	1.64 ✓
1655	0.5	3.5	4.92	13.00	5.26 ✓	119	212 ✓	19.6	1.64 ✓

Sample Collection Time: 1700
Analytical Parameters: VOCs, Methane/ethane/ethene, Fe^{2+}, Cl, SO_3, SO_4, NO_2/NO_3

Remarks:

Volume Calculation, 2-inch well: Water Column (ft) * 0.17 (gal/ft) = Well Volume (gal)
Volume Calculation, 4-inch well: Water Column (ft) * 0.65 (gal/ft) = Well Volume (gal)

APPENDIX L

LABORATORY ANALYTICAL REPORTS WITH CHAIN OF CUSTODY RECORDS

(The laboratory Analytical Report for January 23, 2013 is presented in Appendix F. The laboratory Analytical Report for March 7-8, 2013 is presented in Appendix G.)

Analytical Report 465343

for

Mill Creek Environmental Services

Project Manager: Dan Centofanti

Apex Village

AV-1301-6

28-JUN-13

Collected By: Client

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Lakeland: Florida (E84098)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

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XENCO Laboratories
Florida Testing Services, LLC

28-JUN-13

Project Manager: **Dan Centofanti**
Mill Creek Environmental Services
1818 Perimeter Road
Dawsonville, GA 30534

Reference: XENCO Report No(s): **465343**
Apex Village
Project Address: GA

Dan Centofanti:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 465343. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 465343 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

David C. Fuller
Client Services Director

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America

Sample Cross Reference 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-4, 12'	S	06-17-13 14:50		465343-001
MW-4, 16'	S	06-17-13 15:00		465343-002
MW-1	W	06-18-13 14:15		465343-003
MW-2	W	06-18-13 14:40		465343-004
MW-3	W	06-18-13 15:00		465343-005
MW-4	W	06-18-13 15:20		465343-006
Trip Blank	W	06-18-13 00:00		465343-007

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-916732 Select Metals by SW-846 6010C
SW6010C

Batch 916732, Iron, Magnesium, Titanium recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Aluminum, Calcium, Phosphorus, Potassium, Silicon, Sulfur recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Manganese recovered above QC limits in the Matrix Spike Duplicate.
Samples affected are: 465343-002, -001.
The Laboratory Control Sample for Aluminum, Magnesium, Sulfur, Calcium, Iron, Manganese, Silicon, Titanium, Potassium, Phosphorus is within laboratory Control Limits

SW6010C

Batch 916732, Calcium, Phosphorus, Sulfur RPD was outside QC limits.
Samples affected are: 465343-002, -001

Batch: LBA-916744 SVOCs by SW-846 8270D
SW8270D_ATL

Batch 916744, 2-Fluorophenol, Phenol-d5 recovered below QC limits Data confirmed by re-analysis.
Samples affected are: 639993-1-BLK.

SW8270D_ATL

Batch 916744, Hexachlorocyclopentadiene recovered below QC limits in the Matrix Spike Duplicate.
Samples affected are: 465343-002, -001.
The Laboratory Control Sample for Hexachlorocyclopentadiene is within laboratory Control Limits

CASE NARRATIVE

Client Name: Mill Creek Environmental Services
Project Name: Apex Village

Project ID: *AV-1301-6*
Work Order Number(s): *465343*

Report Date: *28-JUN-13*
Date Received: *06/19/2013*

Batch: LBA-916748 VOCs by SW-846 8260B
SW8260B_ATL

Batch 916748, Vinyl acetate recovered below QC limits in the Matrix Spike Duplicate.
Samples affected are: 465343-002, -001.
The Laboratory Control Sample for Vinyl acetate is within laboratory Control Limits

Batch: LBA-916782 MADEP VPH REV 1.1
VPH_ATL

Batch 916782, C9-C12 Aliphatics (Unadj.) recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 465343-006.
The Laboratory Control Sample for C9-C12 Aliphatics (Unadj.) is within laboratory Control Limits

Batch: LBA-917159 VOCs by GC/MS by SM6200B
SM6200B

Batch 917159, cis-1,3-Dichloropropene recovered above QC limits in the Matrix Spike.
Samples affected are: 465343-007, -006.
The Laboratory Control Sample for cis-1,3-Dichloropropene is within laboratory Control Limits

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantiation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Hits Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id : **MW-4, 12'**
Lab Sample Id : 465343-001

Matrix : Soil
Date Collected : 06.17.13 14.50
Date Received : 06.19.13 10.00

% Moisture :
Basis : Wet Weight

Analytical Method : Select Metals by SW-846 6010C
Seq Number 916732

Prep Method: SW3050B
Date Prep: 06.20.13 10.40

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	3.98	mg/kg	06.20.13 17.13	J	1
Lead	7439-92-1	7.40	mg/kg	06.20.13 17.13		1

Analytical Method : VOCs by SW-846 8260B
Seq Number 916748

Prep Method: SW5035
Date Prep: 06.20.13 07.45

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
1,2,4-Trimethylbenzene	95-63-6	0.013	mg/kg	06.20.13 14.03		1
m,p-Xylenes	179601-23-1	0.00114	mg/kg	06.20.13 14.03	J	1
Naphthalene	91-20-3	0.013	mg/kg	06.20.13 14.03		1
n-Propylbenzene	103-65-1	0.0012	mg/kg	06.20.13 14.03		1
o-Xylene	95-47-6	0.00101	mg/kg	06.20.13 14.03		1

Hits Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id : **MW-4, 16'**
Lab Sample Id :465343-002

Matrix : Soil
Date Collected :06.17.13 15.00
Date Received :06.19.13 10.00

% Moisture :
Basis : Wet Weight

Analytical Method : EPH by MADEP Method
Seq Number 917187

Prep Method: SW3550
Date Prep: 06.20.13 12.40

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
Unadjusted C11-C22 Aromatics	C11C22	30.0	mg/kg	06.26.13 04.41		1

Analytical Method : Select Metals by SW-846 6010C
Seq Number 916732

Prep Method: SW3050B
Date Prep: 06.20.13 10.40

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	3.25	mg/kg	06.20.13 17.15	J	1
Lead	7439-92-1	4.91	mg/kg	06.20.13 17.15		1

Analytical Method : VOCs by SW-846 8260B
Seq Number 916748

Prep Method: SW5035
Date Prep: 06.20.13 07.45

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
1,2,4-Trimethylbenzene	95-63-6	0.0069	mg/kg	06.20.13 14.29		1
1,3,5-Trimethylbenzene	108-67-8	0.0015	mg/kg	06.20.13 14.29		1
Naphthalene	91-20-3	0.0061	mg/kg	06.20.13 14.29		1

Hits Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id : **MW-2**
Lab Sample Id :465343-004

Matrix : Ground Water
Date Collected :06.18.13 14.40
Date Received :06.19.13 10.00

% Moisture :

Analytical Method : VOCs by SW-846 8260B
Seq Number 916874

Prep Method: SW5030B
Date Prep: 06.22.13 08.09

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
cis-1,2-Dichloroethene	156-59-2	13.8	ug/L	06.22.13 18.26		1
Tetrachloroethene	127-18-4	30.4	ug/L	06.22.13 18.26		1
Toluene	108-88-3	1.06	ug/L	06.22.13 18.26		1
Trichloroethene	79-01-6	14.6	ug/L	06.22.13 18.26		1

Hits Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id : **MW-3**
Lab Sample Id :465343-005

Matrix : Ground Water
Date Collected :06.18.13 15.00
Date Received :06.19.13 10.00

% Moisture :

Analytical Method : VOCs by SW-846 8260B
Seq Number 916874

Prep Method: SW5030B
Date Prep: 06.22.13 08.09

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
cis-1,2-Dichloroethene	156-59-2	3.49	ug/L	06.22.13 18.52		1
Tetrachloroethene	127-18-4	27.5	ug/L	06.22.13 18.52		1

Hits Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id : **MW-4** Matrix : Ground Water % Moisture :

Lab Sample Id :465343-006 Date Collected :06.18.13 15.20

Date Received :06.19.13 10.00

Analytical Method : EPH by MADEP Method Prep Method: SW3520C

Seq Number 917179 Date Prep: 06.20.13 10.30

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
Unadjusted C11-C22 Aromatics	C11C22	120	ug/L	06.25.13 23.43		1

Analytical Method : MADEP VPH REV 1.1 Prep Method: SW5030B

Seq Number 916782 Date Prep: 06.20.13 08.13

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
C9-C10 Aromatics (Unadj.)	HYDC9C10	20.0	ug/L	06.20.13 16.25		1
C9-C12 Aliphatics (Unadj.)	ALHYDRC9	50.0	ug/L	06.20.13 16.25	X	1

Analytical Method : SVOCs by EPA 625M + 10 TICs Prep Method: E625P

Seq Number 917130 Date Prep: 06.21.13 14.00

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
2-Methylnaphthalene	91-57-6	1.56	ug/L	06.28.13 14.41	J	1
Bis(2-ethylhexyl) phthalate	117-81-7	1.57	ug/L	06.28.13 14.41	J	1
Naphthalene	91-20-3	1.92	ug/L	06.28.13 14.41	J	1
3-Phenylbut-1-ene (TIC)	TIC	4.27	ug/L	06.28.13 14.41	JN	1
Hexadecane, 7,9-dimethyl- (TIC)	TIC	4.84	ug/L	06.28.13 14.41	JN	1
Squalene (TIC)	TIC	5.62	ug/L	06.28.13 14.41	JN	1
n-Hexadecanoic acid (TIC)	TIC	64.2	ug/L	06.28.13 14.41	JN	1
Octadecanoic acid (TIC)	TIC	76.4	ug/L	06.28.13 14.41	JN	1
Diisooctyl adipate (TIC)	TIC	8.22	ug/L	06.28.13 14.41	JN	1

Analytical Method : VOCs by GC/MS by SM6200B Prep Method: SM6200B_PREP

Seq Number 917159 Date Prep: 06.26.13 07.23

Parameter	Cas Numbe	Result	Units	Analysis Date	Flag	Dil
1,2,4-Trimethylbenzene	95-63-6	7.54	ug/L	06.26.13 11.39		1
Chloroform	67-66-3	1.50	ug/L	06.26.13 11.39		1
Isopropylbenzene	98-82-8	0.220	ug/L	06.26.13 11.39	J	1
Naphthalene	91-20-3	8.05	ug/L	06.26.13 11.39		1
n-Propylbenzene	103-65-1	0.610	ug/L	06.26.13 11.39	J	1
Tetrachloroethene (PCE)	127-18-4	0.980	ug/L	06.26.13 11.39		1
m,p-Xylenes	179601-23-1	1.54	ug/L	06.26.13 11.39		1
o-Xylene	95-47-6	1.51	ug/L	06.26.13 11.39		1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 12'** Matrix: Soil Date Received:06.19.13 10.00

Lab Sample Id: 465343-001 Date Collected: 06.17.13 14.50

Analytical Method: Select Metals by SW-846 6010C Prep Method: SW3050B

Tech: 4150 % Moisture:

Analyst: 4150 Date Prep: 06.20.13 10.40 Basis: Wet Weight

Seq Number: 916732

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	**3.98**	4.67	0.0561	mg/kg	06.20.13 17.13	J	1
Lead	7439-92-1	**7.40**	4.67	0.261	mg/kg	06.20.13 17.13		1

Analytical Method: EPH by MADEP Method Prep Method: SW3550

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.20.13 12.40 Basis: Wet Weight

Seq Number: 917187

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Unadjusted C11-C22 Aromatics	C11C22	U	19.8	19.8	mg/kg	06.26.13 03.16	U	1
Unadjusted C9-C18 Aliphatics	ALHYDRC9C18	U	9.92	9.92	mg/kg	06.26.13 11.51	U	1
Unadjusted C19-C36 Aliphatics	ALHYDRC19C3	U	9.92	9.92	mg/kg	06.26.13 11.51	UX	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctadecane	3386-33-2	66	%	40-140	06.26.13 11.51	
o-Terphenyl	84-15-1	77	%	40-140	06.26.13 03.16	
2-Fluorobiphenyl	321-60-8	90	%	40-140	06.26.13 03.16	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 12'** Matrix: Soil Date Received:06.19.13 10.00

Lab Sample Id: 465343-001 Date Collected: 06.17.13 14.50

Analytical Method: SVOCs by SW-846 8270D Prep Method: SW3550

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.20.13 13.38 Basis: Wet Weight

Seq Number: 916744

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2,4-Trichlorobenzene	120-82-1	U	0.332	0.0587	mg/kg	06.20.13 19.20	U	1
1,2-Dichlorobenzene	95-50-1	U	0.332	0.0537	mg/kg	06.20.13 19.20	U	1
1,2-Diphenylhydrazine	122-66-7	U	0.332	0.0365	mg/kg	06.20.13 19.20	U	1
1,3-Dichlorobenzene	541-73-1	U	0.332	0.0524	mg/kg	06.20.13 19.20	U	1
1,4-Dichlorobenzene	106-46-7	U	0.332	0.0517	mg/kg	06.20.13 19.20	U	1
2,4,6-Trichlorophenol	88-06-2	U	0.332	0.0640	mg/kg	06.20.13 19.20	U	1
2,4-Dichlorophenol	120-83-2	U	0.332	0.0421	mg/kg	06.20.13 19.20	U	1
2,4-Dimethylphenol	105-67-9	U	0.332	0.0604	mg/kg	06.20.13 19.20	U	1
2,4-Dinitrophenol	51-28-5	U	0.332	0.0534	mg/kg	06.20.13 19.20	U	1
2,4-Dinitrotoluene	121-14-2	U	0.332	0.0534	mg/kg	06.20.13 19.20	U	1
2,6-Dinitrotoluene	606-20-2	U	0.332	0.0431	mg/kg	06.20.13 19.20	U	1
2-Chloronaphthalene	91-58-7	U	0.332	0.0604	mg/kg	06.20.13 19.20	U	1
2-Chlorophenol	95-57-8	U	0.332	0.0594	mg/kg	06.20.13 19.20	U	1
2-Methylnaphthalene	91-57-6	U	0.332	0.0507	mg/kg	06.20.13 19.20	U	1
2-methylphenol	95-48-7	U	0.332	0.0464	mg/kg	06.20.13 19.20	U	1
2-Nitrophenol	88-75-5	U	0.332	0.0418	mg/kg	06.20.13 19.20	U	1
3&4-Methylphenol	15831-10-4	U	0.332	0.0982	mg/kg	06.20.13 19.20	U	1
3,3-Dichlorobenzidine	91-94-1	U	0.332	0.0484	mg/kg	06.20.13 19.20	U	1
4,6-dinitro-2-methyl phenol	534-52-1	U	0.332	0.0577	mg/kg	06.20.13 19.20	U	1
4-Bromophenyl-phenylether	101-55-3	U	0.332	0.0564	mg/kg	06.20.13 19.20	U	1
4-chloro-3-methylphenol	59-50-7	U	0.332	0.0474	mg/kg	06.20.13 19.20	U	1
4-Chloroaniline	106-47-8	U	0.332	0.0551	mg/kg	06.20.13 19.20	U	1
4-Chlorophenyl Phenyl Ether	7005-72-3	U	0.332	0.0630	mg/kg	06.20.13 19.20	U	1
4-Nitrophenol	100-02-7	U	0.332	0.0408	mg/kg	06.20.13 19.20	U	1
Acenaphthene	83-32-9	U	0.332	0.0464	mg/kg	06.20.13 19.20	U	1
Acenaphthylene	208-96-8	U	0.332	0.0564	mg/kg	06.20.13 19.20	U	1
Anthracene	120-12-7	U	0.332	0.0491	mg/kg	06.20.13 19.20	U	1
Benzo(a)anthracene	56-55-3	U	0.332	0.0537	mg/kg	06.20.13 19.20	U	1
Benzo(a)pyrene	50-32-8	U	0.332	0.0488	mg/kg	06.20.13 19.20	U	1
Benzo(b)fluoranthene	205-99-2	U	0.332	0.0541	mg/kg	06.20.13 19.20	U	1
Benzo(g,h,i)perylene	191-24-2	U	0.332	0.0547	mg/kg	06.20.13 19.20	U	1
Benzo(k)fluoranthene	207-08-9	U	0.332	0.0570	mg/kg	06.20.13 19.20	U	1
Benzoic Acid	65-85-0	U	0.332	0.0524	mg/kg	06.20.13 19.20	U	1
Benzyl Alcohol	100-51-6	U	0.332	0.0531	mg/kg	06.20.13 19.20	U	1
bis(2-chloroethoxy) methane	111-91-1	U	0.332	0.0398	mg/kg	06.20.13 19.20	U	1
bis(2-chloroethyl) ether	111-44-4	U	0.332	0.0471	mg/kg	06.20.13 19.20	U	1
bis(2-chloroisopropyl) ether	39638-32-9	U	0.332	0.0448	mg/kg	06.20.13 19.20	U	1
bis(2-ethylhexyl) phthalate	117-81-7	U	0.332	0.0537	mg/kg	06.20.13 19.20	U	1
Butylbenzylphthalate	85-68-7	U	0.332	0.0498	mg/kg	06.20.13 19.20	U	1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 12'** Matrix: Soil Date Received:06.19.13 10.00

Lab Sample Id: 465343-001 Date Collected: 06.17.13 14.50

Analytical Method: SVOCs by SW-846 8270D Prep Method: SW3550

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.20.13 13.38 Basis: Wet Weight

Seq Number: 916744

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chrysene	218-01-9	U	0.332	0.0441	mg/kg	06.20.13 19.20	U	1
Dibenz(a,h)Anthracene	53-70-3	U	0.332	0.0643	mg/kg	06.20.13 19.20	U	1
Dibenzofuran	132-64-9	U	0.332	0.0425	mg/kg	06.20.13 19.20	U	1
Diethyl Phthalate	84-66-2	U	0.332	0.0534	mg/kg	06.20.13 19.20	U	1
Dimethyl Phthalate	131-11-3	U	0.332	0.0501	mg/kg	06.20.13 19.20	U	1
di-n-Butyl Phthalate	84-74-2	U	0.332	0.0610	mg/kg	06.20.13 19.20	U	1
di-n-Octyl Phthalate	117-84-0	U	0.332	0.0551	mg/kg	06.20.13 19.20	U	1
Fluoranthene	206-44-0	U	0.332	0.0431	mg/kg	06.20.13 19.20	U	1
Fluorene	86-73-7	U	0.332	0.0405	mg/kg	06.20.13 19.20	U	1
Hexachlorobenzene	118-74-1	U	0.332	0.0554	mg/kg	06.20.13 19.20	U	1
Hexachlorobutadiene	87-68-3	U	0.332	0.0368	mg/kg	06.20.13 19.20	U	1
Hexachlorocyclopentadiene	77-47-4	U	0.332	0.0570	mg/kg	06.20.13 19.20	UX	1
Hexachloroethane	67-72-1	U	0.332	0.0514	mg/kg	06.20.13 19.20	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	U	0.332	0.0604	mg/kg	06.20.13 19.20	U	1
Isophorone	78-59-1	U	0.332	0.0342	mg/kg	06.20.13 19.20	U	1
Naphthalene	91-20-3	U	0.332	0.0531	mg/kg	06.20.13 19.20	U	1
Nitrobenzene	98-95-3	U	0.332	0.0590	mg/kg	06.20.13 19.20	U	1
N-Nitrosodi-n-Propylamine	621-64-7	U	0.332	0.0474	mg/kg	06.20.13 19.20	U	1
N-Nitrosodiphenylamine	86-30-6	U	0.332	0.0697	mg/kg	06.20.13 19.20	U	1
Pentachlorophenol	87-86-5	U	0.332	0.0600	mg/kg	06.20.13 19.20	U	1
Phenanthrene	85-01-8	U	0.332	0.0551	mg/kg	06.20.13 19.20	U	1
Phenol	108-95-2	U	0.332	0.0464	mg/kg	06.20.13 19.20	U	1
Pyrene	129-00-0	U	0.332	0.0564	mg/kg	06.20.13 19.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
2-Fluorobiphenyl	321-60-8	56	%	20-112	06.20.13 19.20	
2-Fluorophenol	367-12-4	52	%	18-101	06.20.13 19.20	
Nitrobenzene-d5	4165-60-0	50	%	13-112	06.20.13 19.20	
Phenol-d5	4165-62-2	51	%	15-110	06.20.13 19.20	
Terphenyl-D14	1718-51-0	60	%	21-138	06.20.13 19.20	
2,4,6-Tribromophenol	118-79-6	69	%	21-128	06.20.13 19.20	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id:	**MW-4, 12'**	Matrix:	Soil	Date Received:	06.19.13 10.00
Lab Sample Id:	465343-001	Date Collected:	06.17.13 14.50		

Analytical Method:	MADEP VPH REV 1.1			Prep Method:	SW5030B
Tech:	BAT			% Moisture:	
Analyst:	MLA	Date Prep:	06.26.13 07.39	Basis:	Wet Weight
Seq Number:	917180				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Unadjusted C5-C8 Aliphatics	ALHYDRC5C8	U	0.750	0.750	mg/kg	06.26.13 11.46	U	50
Unadjusted C9-C12 Aliphatics	ALHYDRC9C1	U	0.750	0.750	mg/kg	06.26.13 11.46	U	50
Unadjusted C9-C10 Aromatics	HYDC9C10	U	0.250	0.250	mg/kg	06.26.13 11.46	U	50

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
2,5-Dibromotoluene	615-59-8	125	%	70-130	06.26.13 11.46	
2,5-Dibromotoluene (PID)	615-59-8	125	%	70-130	06.26.13 11.46	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 12'** Matrix: Soil Date Received:06.19.13 10.00

Lab Sample Id: 465343-001 Date Collected: 06.17.13 14.50

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5035

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.20.13 07.45 Basis: Wet Weight

Seq Number: 916748

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	0.00084	0.00063	mg/kg	06.20.13 14.03	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.0017	0.00100	mg/kg	06.20.13 14.03	U	1
1,1,2-Trichloroethane	79-00-5	U	0.00084	0.00056	mg/kg	06.20.13 14.03	U	1
1,1-Dichloroethane	75-34-3	U	0.00084	0.00067	mg/kg	06.20.13 14.03	U	1
1,1-Dichloroethene	75-35-4	U	0.0017	0.00097	mg/kg	06.20.13 14.03	U	1
1,1-Dichloropropene	563-58-6	U	0.00084	0.00045	mg/kg	06.20.13 14.03	U	1
1,2,3-Trichlorobenzene	87-61-6	U	0.00084	0.00048	mg/kg	06.20.13 14.03	U	1
1,2,3-Trichloropropane	96-18-4	U	0.0017	0.0014	mg/kg	06.20.13 14.03	U	1
1,2,4-Trichlorobenzene	120-82-1	U	0.00084	0.00073	mg/kg	06.20.13 14.03	U	1
1,2,4-Trimethylbenzene	95-63-6	**0.013**	0.00084	0.00060	mg/kg	06.20.13 14.03		1
1,2-Dibromoethane (EDB)	106-93-4	U	0.00084	0.00072	mg/kg	06.20.13 14.03	U	1
1,2-Dichlorobenzene	95-50-1	U	0.0017	0.0011	mg/kg	06.20.13 14.03	U	1
1,2-Dichloroethane	107-06-2	U	0.00084	0.00050	mg/kg	06.20.13 14.03	U	1
1,2-Dichloropropane	78-87-5	U	0.00084	0.00078	mg/kg	06.20.13 14.03	U	1
1,3,5-Trimethylbenzene	108-67-8	U	0.00084	0.00068	mg/kg	06.20.13 14.03	U	1
1,3-Dichlorobenzene	541-73-1	U	0.00084	0.00084	mg/kg	06.20.13 14.03	U	1
1,3-Dichloropropane	142-28-9	U	0.00084	0.00058	mg/kg	06.20.13 14.03	U	1
1,4-Dichlorobenzene	106-46-7	U	0.00084	0.00057	mg/kg	06.20.13 14.03	U	1
2,2-Dichloropropane	594-20-7	U	0.00084	0.00050	mg/kg	06.20.13 14.03	U	1
2-Butanone (MEK)	78-93-3	U	0.0084	0.0019	mg/kg	06.20.13 14.03	U	1
2-Chlorotoluene	95-49-8	U	0.00084	0.00059	mg/kg	06.20.13 14.03	U	1
2-Hexanone	591-78-6	U	0.0084	0.00095	mg/kg	06.20.13 14.03	U	1
4-Chlorotoluene	106-43-4	U	0.00084	0.00046	mg/kg	06.20.13 14.03	U	1
4-Isopropyltoluene	99-87-6	U	0.00084	0.00067	mg/kg	06.20.13 14.03	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	0.0084	0.0027	mg/kg	06.20.13 14.03	U	1
Acetone	67-64-1	U	0.0084	0.0058	mg/kg	06.20.13 14.03	U	1
Benzene	71-43-2	U	0.00084	0.00043	mg/kg	06.20.13 14.03	U	1
Bromobenzene	108-86-1	U	0.00084	0.00072	mg/kg	06.20.13 14.03	U	1
Bromochloromethane	74-97-5	U	0.0017	0.00084	mg/kg	06.20.13 14.03	U	1
Bromodichloromethane	75-27-4	U	0.00084	0.00042	mg/kg	06.20.13 14.03	U	1
Bromoform	75-25-2	U	0.00084	0.00080	mg/kg	06.20.13 14.03	U	1
Bromomethane	74-83-9	U	0.0042	0.0021	mg/kg	06.20.13 14.03	U	1
Carbon tetrachloride	56-23-5	U	0.00084	0.00062	mg/kg	06.20.13 14.03	U	1
Chlorobenzene	108-90-7	U	0.00084	0.00049	mg/kg	06.20.13 14.03	U	1
Chlorodibromomethane	124-48-1	U	0.00084	0.00083	mg/kg	06.20.13 14.03	U	1
Chloroethane	75-00-3	U	0.0042	0.0021	mg/kg	06.20.13 14.03	U	1
Chloroform	67-66-3	U	0.00084	0.00062	mg/kg	06.20.13 14.03	U	1
Chloromethane	74-87-3	U	0.0042	0.0019	mg/kg	06.20.13 14.03	U	1
cis-1,2-Dichloroethene	156-59-2	U	0.00084	0.00056	mg/kg	06.20.13 14.03	U	1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 12'** Matrix: Soil Date Received:06.19.13 10.00

Lab Sample Id: 465343-001 Date Collected: 06.17.13 14.50

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5035

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.20.13 07.45 Basis: Wet Weight

Seq Number: 916748

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	0.00084	0.00045	mg/kg	06.20.13 14.03	U	1
Dichlorodifluoromethane	75-71-8	U	0.0017	0.00099	mg/kg	06.20.13 14.03	U	1
Ethanol	64-17-5	U	0.042	0.024	mg/kg	06.20.13 14.03	U	1
Ethylbenzene	100-41-4	U	0.00084	0.00047	mg/kg	06.20.13 14.03	U	1
Isopropyl Ether	108-20-3	U	0.0017	0.0011	mg/kg	06.20.13 14.03	U	1
Isopropylbenzene	98-82-8	U	0.00084	0.00064	mg/kg	06.20.13 14.03	U	1
m,p-Xylenes	179601-23-1	**0.00114**	0.00168	0.00101	mg/kg	06.20.13 14.03	J	1
Methyl tert-butyl ether	1634-04-4	U	0.0017	0.00058	mg/kg	06.20.13 14.03	U	1
Methylene chloride	75-09-2	U	0.0042	0.0018	mg/kg	06.20.13 14.03	U	1
Naphthalene	91-20-3	**0.013**	0.0017	0.0011	mg/kg	06.20.13 14.03		1
n-Butylbenzene	104-51-8	U	0.00084	0.00074	mg/kg	06.20.13 14.03	U	1
n-Propylbenzene	103-65-1	**0.0012**	0.00084	0.00066	mg/kg	06.20.13 14.03		1
o-Xylene	95-47-6	**0.00101**	0.000839	0.000601	mg/kg	06.20.13 14.03		1
sec-Butylbenzene	135-98-8	U	0.00084	0.00055	mg/kg	06.20.13 14.03	U	1
Styrene	100-42-5	U	0.00084	0.00062	mg/kg	06.20.13 14.03	U	1
tert-Butylbenzene	98-06-6	U	0.00084	0.00070	mg/kg	06.20.13 14.03	U	1
Tetrachloroethene	127-18-4	U	0.0017	0.00087	mg/kg	06.20.13 14.03	U	1
Toluene	108-88-3	U	0.00084	0.00049	mg/kg	06.20.13 14.03	U	1
trans-1,2-Dichloroethene	156-60-5	U	0.00084	0.00065	mg/kg	06.20.13 14.03	U	1
trans-1,3-Dichloropropene	10061-02-6	U	0.00084	0.00056	mg/kg	06.20.13 14.03	U	1
Trichloroethene	79-01-6	U	0.00084	0.00059	mg/kg	06.20.13 14.03	U	1
Trichlorofluoromethane	75-69-4	U	0.0042	0.0029	mg/kg	06.20.13 14.03	U	1
Vinyl acetate	108-05-4	U	0.0042	0.00060	mg/kg	06.20.13 14.03	U	1
Vinyl chloride	75-01-4	U	0.0042	0.0017	mg/kg	06.20.13 14.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	109	%	50-150	06.20.13 14.03	
4-Bromofluorobenzene	460-00-4	103	%	57-158	06.20.13 14.03	
Toluene-D8	2037-26-5	96	%	50-150	06.20.13 14.03	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 16'** Matrix: Soil Date Received:06.19.13 10.00

Lab Sample Id: 465343-002 Date Collected: 06.17.13 15.00

Analytical Method: Select Metals by SW-846 6010C Prep Method: SW3050B

Tech: 4150 % Moisture:

Analyst: 4150 Date Prep: 06.20.13 10.40 Basis: Wet Weight

Seq Number: 916732

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	**3.25**	3.62	0.0435	mg/kg	06.20.13 17.15	J	1
Lead	7439-92-1	**4.91**	3.62	0.202	mg/kg	06.20.13 17.15		1

Analytical Method: EPH by MADEP Method Prep Method: SW3550

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.20.13 12.40 Basis: Wet Weight

Seq Number: 917187

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Unadjusted C11-C22 Aromatics	C11C22	**30.0**	19.8	19.8	mg/kg	06.26.13 04.41		1
Unadjusted C9-C18 Aliphatics	ALHYDRC9C18	U	9.89	9.89	mg/kg	06.26.13 13.09	U	1
Unadjusted C19-C36 Aliphatics	ALHYDRC19C3	U	9.89	9.89	mg/kg	06.26.13 13.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctadecane	3386-33-2	63	%	40-140	06.26.13 13.09	
o-Terphenyl	84-15-1	69	%	40-140	06.26.13 04.41	
2-Fluorobiphenyl	321-60-8	44	%	40-140	06.26.13 04.41	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 16'**
Lab Sample Id: 465343-002

Matrix: Soil
Date Collected: 06.17.13 15.00

Date Received: 06.19.13 10.00

Analytical Method: SVOCs by SW-846 8270D
Tech: BRO
Analyst: NTR
Seq Number: 916744

Date Prep: 06.20.13 13.38

Prep Method: SW3550
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2,4-Trichlorobenzene	120-82-1	U	0.333	0.0589	mg/kg	06.20.13 19.48	U	1
1,2-Dichlorobenzene	95-50-1	U	0.333	0.0539	mg/kg	06.20.13 19.48	U	1
1,2-Diphenylhydrazine	122-66-7	U	0.333	0.0366	mg/kg	06.20.13 19.48	U	1
1,3-Dichlorobenzene	541-73-1	U	0.333	0.0526	mg/kg	06.20.13 19.48	U	1
1,4-Dichlorobenzene	106-46-7	U	0.333	0.0519	mg/kg	06.20.13 19.48	U	1
2,4,6-Trichlorophenol	88-06-2	U	0.333	0.0642	mg/kg	06.20.13 19.48	U	1
2,4-Dichlorophenol	120-83-2	U	0.333	0.0422	mg/kg	06.20.13 19.48	U	1
2,4-Dimethylphenol	105-67-9	U	0.333	0.0605	mg/kg	06.20.13 19.48	U	1
2,4-Dinitrophenol	51-28-5	U	0.333	0.0536	mg/kg	06.20.13 19.48	U	1
2,4-Dinitrotoluene	121-14-2	U	0.333	0.0536	mg/kg	06.20.13 19.48	U	1
2,6-Dinitrotoluene	606-20-2	U	0.333	0.0432	mg/kg	06.20.13 19.48	U	1
2-Chloronaphthalene	91-58-7	U	0.333	0.0605	mg/kg	06.20.13 19.48	U	1
2-Chlorophenol	95-57-8	U	0.333	0.0595	mg/kg	06.20.13 19.48	U	1
2-Methylnaphthalene	91-57-6	U	0.333	0.0509	mg/kg	06.20.13 19.48	U	1
2-methylphenol	95-48-7	U	0.333	0.0466	mg/kg	06.20.13 19.48	U	1
2-Nitrophenol	88-75-5	U	0.333	0.0419	mg/kg	06.20.13 19.48	U	1
3&4-Methylphenol	15831-10-4	U	0.333	0.0985	mg/kg	06.20.13 19.48	U	1
3,3-Dichlorobenzidine	91-94-1	U	0.333	0.0486	mg/kg	06.20.13 19.48	U	1
4,6-dinitro-2-methyl phenol	534-52-1	U	0.333	0.0579	mg/kg	06.20.13 19.48	U	1
4-Bromophenyl-phenylether	101-55-3	U	0.333	0.0566	mg/kg	06.20.13 19.48	U	1
4-chloro-3-methylphenol	59-50-7	U	0.333	0.0476	mg/kg	06.20.13 19.48	U	1
4-Chloroaniline	106-47-8	U	0.333	0.0552	mg/kg	06.20.13 19.48	U	1
4-Chlorophenyl Phenyl Ether	7005-72-3	U	0.333	0.0632	mg/kg	06.20.13 19.48	U	1
4-Nitrophenol	100-02-7	U	0.333	0.0409	mg/kg	06.20.13 19.48	U	1
Acenaphthene	83-32-9	U	0.333	0.0466	mg/kg	06.20.13 19.48	U	1
Acenaphthylene	208-96-8	U	0.333	0.0566	mg/kg	06.20.13 19.48	U	1
Anthracene	120-12-7	U	0.333	0.0492	mg/kg	06.20.13 19.48	U	1
Benzo(a)anthracene	56-55-3	U	0.333	0.0539	mg/kg	06.20.13 19.48	U	1
Benzo(a)pyrene	50-32-8	U	0.333	0.0489	mg/kg	06.20.13 19.48	U	1
Benzo(b)fluoranthene	205-99-2	U	0.333	0.0542	mg/kg	06.20.13 19.48	U	1
Benzo(g,h,i)perylene	191-24-2	U	0.333	0.0549	mg/kg	06.20.13 19.48	U	1
Benzo(k)fluoranthene	207-08-9	U	0.333	0.0572	mg/kg	06.20.13 19.48	U	1
Benzoic Acid	65-85-0	U	0.333	0.0526	mg/kg	06.20.13 19.48	U	1
Benzyl Alcohol	100-51-6	U	0.333	0.0532	mg/kg	06.20.13 19.48	U	1
bis(2-chloroethoxy) methane	111-91-1	U	0.333	0.0399	mg/kg	06.20.13 19.48	U	1
bis(2-chloroethyl) ether	111-44-4	U	0.333	0.0472	mg/kg	06.20.13 19.48	U	1
bis(2-chloroisopropyl) ether	39638-32-9	U	0.333	0.0449	mg/kg	06.20.13 19.48	U	1
bis(2-ethylhexyl) phthalate	117-81-7	U	0.333	0.0539	mg/kg	06.20.13 19.48	U	1
Butylbenzylphthalate	85-68-7	U	0.333	0.0499	mg/kg	06.20.13 19.48	U	1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 16'**
Lab Sample Id: 465343-002

Matrix: Soil
Date Collected: 06.17.13 15.00

Date Received: 06.19.13 10.00

Analytical Method: SVOCs by SW-846 8270D
Tech: BRO
Analyst: NTR
Seq Number: 916744

Date Prep: 06.20.13 13.38

Prep Method: SW3550
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chrysene	218-01-9	U	0.333	0.0442	mg/kg	06.20.13 19.48	U	1
Dibenz(a,h)Anthracene	53-70-3	U	0.333	0.0645	mg/kg	06.20.13 19.48	U	1
Dibenzofuran	132-64-9	U	0.333	0.0426	mg/kg	06.20.13 19.48	U	1
Diethyl Phthalate	84-66-2	U	0.333	0.0536	mg/kg	06.20.13 19.48	U	1
Dimethyl Phthalate	131-11-3	U	0.333	0.0502	mg/kg	06.20.13 19.48	U	1
di-n-Butyl Phthalate	84-74-2	U	0.333	0.0612	mg/kg	06.20.13 19.48	U	1
di-n-Octyl Phthalate	117-84-0	U	0.333	0.0552	mg/kg	06.20.13 19.48	U	1
Fluoranthene	206-44-0	U	0.333	0.0432	mg/kg	06.20.13 19.48	U	1
Fluorene	86-73-7	U	0.333	0.0406	mg/kg	06.20.13 19.48	U	1
Hexachlorobenzene	118-74-1	U	0.333	0.0556	mg/kg	06.20.13 19.48	U	1
Hexachlorobutadiene	87-68-3	U	0.333	0.0369	mg/kg	06.20.13 19.48	U	1
Hexachlorocyclopentadiene	77-47-4	U	0.333	0.0572	mg/kg	06.20.13 19.48	U	1
Hexachloroethane	67-72-1	U	0.333	0.0516	mg/kg	06.20.13 19.48	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	U	0.333	0.0605	mg/kg	06.20.13 19.48	U	1
Isophorone	78-59-1	U	0.333	0.0343	mg/kg	06.20.13 19.48	U	1
Naphthalene	91-20-3	U	0.333	0.0532	mg/kg	06.20.13 19.48	U	1
Nitrobenzene	98-95-3	U	0.333	0.0592	mg/kg	06.20.13 19.48	U	1
N-Nitrosodi-n-Propylamine	621-64-7	U	0.333	0.0476	mg/kg	06.20.13 19.48	U	1
N-Nitrosodiphenylamine	86-30-6	U	0.333	0.0699	mg/kg	06.20.13 19.48	U	1
Pentachlorophenol	87-86-5	U	0.333	0.0602	mg/kg	06.20.13 19.48	U	1
Phenanthrene	85-01-8	U	0.333	0.0552	mg/kg	06.20.13 19.48	U	1
Phenol	108-95-2	U	0.333	0.0466	mg/kg	06.20.13 19.48	U	1
Pyrene	129-00-0	U	0.333	0.0566	mg/kg	06.20.13 19.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
2-Fluorobiphenyl	321-60-8	67	%	20-112	06.20.13 19.48	
2-Fluorophenol	367-12-4	62	%	18-101	06.20.13 19.48	
Nitrobenzene-d5	4165-60-0	62	%	13-112	06.20.13 19.48	
Phenol-d5	4165-62-2	60	%	15-110	06.20.13 19.48	
Terphenyl-D14	1718-51-0	79	%	21-138	06.20.13 19.48	
2,4,6-Tribromophenol	118-79-6	83	%	21-128	06.20.13 19.48	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id:	**MW-4, 16'**	Matrix:	Soil	Date Received:	06.19.13 10.00
Lab Sample Id:	465343-002	Date Collected:	06.17.13 15.00		

Analytical Method:	MADEP VPH REV 1.1			Prep Method:	SW5030B
Tech:	BAT			% Moisture:	
Analyst:	MLA	Date Prep:	06.26.13 07.39	Basis:	Wet Weight
Seq Number:	917180				

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Unadjusted C5-C8 Aliphatics	ALHYDRC5C8	U	0.750	0.750	mg/kg	06.26.13 12.30	U	50
Unadjusted C9-C12 Aliphatics	ALHYDRC9C1	U	0.750	0.750	mg/kg	06.26.13 12.30	U	50
Unadjusted C9-C10 Aromatics	HYDC9C10	U	0.250	0.250	mg/kg	06.26.13 12.30	U	50

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
2,5-Dibromotoluene	615-59-8	75	%	70-130	06.26.13 12.30	
2,5-Dibromotoluene (PID)	615-59-8	75	%	70-130	06.26.13 12.30	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 16'** Matrix: Soil Date Received:06.19.13 10.00

Lab Sample Id: 465343-002 Date Collected: 06.17.13 15.00

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5035

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.20.13 07.45 Basis: Wet Weight

Seq Number: 916748

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	0.00087	0.00066	mg/kg	06.20.13 14.29	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.0017	0.0010	mg/kg	06.20.13 14.29	U	1
1,1,2-Trichloroethane	79-00-5	U	0.00087	0.00058	mg/kg	06.20.13 14.29	U	1
1,1-Dichloroethane	75-34-3	U	0.00087	0.00070	mg/kg	06.20.13 14.29	U	1
1,1-Dichloroethene	75-35-4	U	0.0017	0.0010	mg/kg	06.20.13 14.29	U	1
1,1-Dichloropropene	563-58-6	U	0.00087	0.00047	mg/kg	06.20.13 14.29	U	1
1,2,3-Trichlorobenzene	87-61-6	U	0.00087	0.00050	mg/kg	06.20.13 14.29	U	1
1,2,3-Trichloropropane	96-18-4	U	0.0017	0.0014	mg/kg	06.20.13 14.29	U	1
1,2,4-Trichlorobenzene	120-82-1	U	0.00087	0.00076	mg/kg	06.20.13 14.29	U	1
1,2,4-Trimethylbenzene	95-63-6	**0.0069**	0.00087	0.00063	mg/kg	06.20.13 14.29		1
1,2-Dibromoethane (EDB)	106-93-4	U	0.00087	0.00075	mg/kg	06.20.13 14.29	U	1
1,2-Dichlorobenzene	95-50-1	U	0.0017	0.0011	mg/kg	06.20.13 14.29	U	1
1,2-Dichloroethane	107-06-2	U	0.00087	0.00052	mg/kg	06.20.13 14.29	U	1
1,2-Dichloropropane	78-87-5	U	0.00087	0.00081	mg/kg	06.20.13 14.29	U	1
1,3,5-Trimethylbenzene	108-67-8	**0.0015**	0.00087	0.00071	mg/kg	06.20.13 14.29		1
1,3-Dichlorobenzene	541-73-1	U	0.00087	0.00087	mg/kg	06.20.13 14.29	U	1
1,3-Dichloropropane	142-28-9	U	0.00087	0.00060	mg/kg	06.20.13 14.29	U	1
1,4-Dichlorobenzene	106-46-7	U	0.00087	0.00060	mg/kg	06.20.13 14.29	U	1
2,2-Dichloropropane	594-20-7	U	0.00087	0.00052	mg/kg	06.20.13 14.29	U	1
2-Butanone (MEK)	78-93-3	U	0.0087	0.0020	mg/kg	06.20.13 14.29	U	1
2-Chlorotoluene	95-49-8	U	0.00087	0.00062	mg/kg	06.20.13 14.29	U	1
2-Hexanone	591-78-6	U	0.0087	0.00098	mg/kg	06.20.13 14.29	U	1
4-Chlorotoluene	106-43-4	U	0.00087	0.00048	mg/kg	06.20.13 14.29	U	1
4-Isopropyltoluene	99-87-6	U	0.00087	0.00070	mg/kg	06.20.13 14.29	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	0.0087	0.0028	mg/kg	06.20.13 14.29	U	1
Acetone	67-64-1	U	0.0087	0.0060	mg/kg	06.20.13 14.29	U	1
Benzene	71-43-2	U	0.00087	0.00045	mg/kg	06.20.13 14.29	U	1
Bromobenzene	108-86-1	U	0.00087	0.00074	mg/kg	06.20.13 14.29	U	1
Bromochloromethane	74-97-5	U	0.0017	0.00088	mg/kg	06.20.13 14.29	U	1
Bromodichloromethane	75-27-4	U	0.00087	0.00044	mg/kg	06.20.13 14.29	U	1
Bromoform	75-25-2	U	0.00087	0.00084	mg/kg	06.20.13 14.29	U	1
Bromomethane	74-83-9	U	0.0044	0.0021	mg/kg	06.20.13 14.29	U	1
Carbon tetrachloride	56-23-5	U	0.00087	0.00065	mg/kg	06.20.13 14.29	U	1
Chlorobenzene	108-90-7	U	0.00087	0.00050	mg/kg	06.20.13 14.29	U	1
Chlorodibromomethane	124-48-1	U	0.00087	0.00087	mg/kg	06.20.13 14.29	U	1
Chloroethane	75-00-3	U	0.0044	0.0021	mg/kg	06.20.13 14.29	U	1
Chloroform	67-66-3	U	0.00087	0.00065	mg/kg	06.20.13 14.29	U	1
Chloromethane	74-87-3	U	0.0044	0.0020	mg/kg	06.20.13 14.29	U	1
cis-1,2-Dichloroethene	156-59-2	U	0.00087	0.00058	mg/kg	06.20.13 14.29	U	1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4, 16'** Matrix: Soil Date Received:06.19.13 10.00

Lab Sample Id: 465343-002 Date Collected: 06.17.13 15.00

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5035

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.20.13 07.45 Basis: Wet Weight

Seq Number: 916748

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	0.00087	0.00047	mg/kg	06.20.13 14.29	U	1
Dichlorodifluoromethane	75-71-8	U	0.0017	0.0010	mg/kg	06.20.13 14.29	U	1
Ethanol	64-17-5	U	0.044	0.024	mg/kg	06.20.13 14.29	U	1
Ethylbenzene	100-41-4	U	0.00087	0.00049	mg/kg	06.20.13 14.29	U	1
Isopropyl Ether	108-20-3	U	0.0017	0.0011	mg/kg	06.20.13 14.29	U	1
Isopropylbenzene	98-82-8	U	0.00087	0.00066	mg/kg	06.20.13 14.29	U	1
m,p-Xylenes	179601-23-1	U	0.00174	0.00105	mg/kg	06.20.13 14.29	U	1
Methyl tert-butyl ether	1634-04-4	U	0.0017	0.00060	mg/kg	06.20.13 14.29	U	1
Methylene chloride	75-09-2	U	0.0044	0.0019	mg/kg	06.20.13 14.29	U	1
Naphthalene	91-20-3	**0.0061**	0.0017	0.0011	mg/kg	06.20.13 14.29		1
n-Butylbenzene	104-51-8	U	0.00087	0.00077	mg/kg	06.20.13 14.29	U	1
n-Propylbenzene	103-65-1	U	0.00087	0.00068	mg/kg	06.20.13 14.29	U	1
o-Xylene	95-47-6	U	0.000871	0.000624	mg/kg	06.20.13 14.29	U	1
sec-Butylbenzene	135-98-8	U	0.00087	0.00057	mg/kg	06.20.13 14.29	U	1
Styrene	100-42-5	U	0.00087	0.00065	mg/kg	06.20.13 14.29	U	1
tert-Butylbenzene	98-06-6	U	0.00087	0.00073	mg/kg	06.20.13 14.29	U	1
Tetrachloroethene	127-18-4	U	0.0017	0.00090	mg/kg	06.20.13 14.29	U	1
Toluene	108-88-3	U	0.00087	0.00051	mg/kg	06.20.13 14.29	U	1
trans-1,2-Dichloroethene	156-60-5	U	0.00087	0.00068	mg/kg	06.20.13 14.29	U	1
trans-1,3-Dichloropropene	10061-02-6	U	0.00087	0.00058	mg/kg	06.20.13 14.29	U	1
Trichloroethene	79-01-6	U	0.00087	0.00062	mg/kg	06.20.13 14.29	U	1
Trichlorofluoromethane	75-69-4	U	0.0044	0.0031	mg/kg	06.20.13 14.29	U	1
Vinyl acetate	108-05-4	U	0.0044	0.00063	mg/kg	06.20.13 14.29	U	1
Vinyl chloride	75-01-4	U	0.0044	0.0017	mg/kg	06.20.13 14.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	106	%	50-150	06.20.13 14.29	
4-Bromofluorobenzene	460-00-4	100	%	57-158	06.20.13 14.29	
Toluene-D8	2037-26-5	98	%	50-150	06.20.13 14.29	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-1** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-003 Date Collected: 06.18.13 14.15

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.25.13 06.41

Seq Number: 917027

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	06.25.13 11.29	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	06.25.13 11.29	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	06.25.13 11.29	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	06.25.13 11.29	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	06.25.13 11.29	U	1
1,1-Dichloropropene	563-58-6	U	1.00	0.100	ug/L	06.25.13 11.29	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	06.25.13 11.29	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.210	ug/L	06.25.13 11.29	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	06.25.13 11.29	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	06.25.13 11.29	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	06.25.13 11.29	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	06.25.13 11.29	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.25.13 11.29	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	06.25.13 11.29	U	1
1,3,5-Trimethylbenzene	108-67-8	U	1.00	0.170	ug/L	06.25.13 11.29	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	06.25.13 11.29	U	1
1,3-Dichloropropane	142-28-9	U	1.00	0.190	ug/L	06.25.13 11.29	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	06.25.13 11.29	U	1
2,2-Dichloropropane	594-20-7	U	1.00	0.210	ug/L	06.25.13 11.29	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	06.25.13 11.29	U	1
2-Chlorotoluene	95-49-8	U	1.00	0.190	ug/L	06.25.13 11.29	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	06.25.13 11.29	U	1
4-Chlorotoluene	106-43-4	U	1.00	0.130	ug/L	06.25.13 11.29	U	1
4-Isopropyltoluene	99-87-6	U	1.00	0.130	ug/L	06.25.13 11.29	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	06.25.13 11.29	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	06.25.13 11.29	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	06.25.13 11.29	U	1
Bromobenzene	108-86-1	U	1.00	0.210	ug/L	06.25.13 11.29	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	06.25.13 11.29	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	06.25.13 11.29	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	06.25.13 11.29	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	06.25.13 11.29	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	06.25.13 11.29	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	06.25.13 11.29	U	1
Chlorodibromomethane	124-48-1	U	1.00	0.150	ug/L	06.25.13 11.29	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	06.25.13 11.29	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	06.25.13 11.29	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	06.25.13 11.29	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	06.25.13 11.29	U	1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-1** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-003 Date Collected: 06.18.13 14.15

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.25.13 06.41

Seq Number: 917027

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	06.25.13 11.29	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	06.25.13 11.29	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.25.13 11.29	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.25.13 11.29	U	1
Isopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.25.13 11.29	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	06.25.13 11.29	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.25.13 11.29	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.25.13 11.29	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	06.25.13 11.29	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.25.13 11.29	U	1
n-Butylbenzene	104-51-8	U	1.00	0.170	ug/L	06.25.13 11.29	U	1
n-Propylbenzene	103-65-1	U	1.00	0.180	ug/L	06.25.13 11.29	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.25.13 11.29	U	1
sec-Butylbenzene	135-98-8	U	1.00	0.210	ug/L	06.25.13 11.29	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	06.25.13 11.29	U	1
tert-Butylbenzene	98-06-6	U	1.00	0.180	ug/L	06.25.13 11.29	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	06.25.13 11.29	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.25.13 11.29	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	06.25.13 11.29	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	06.25.13 11.29	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	06.25.13 11.29	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	06.25.13 11.29	U	1
Vinyl acetate	108-05-4	U	1.00	0.720	ug/L	06.25.13 11.29	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	06.25.13 11.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	96	%	53-159	06.25.13 11.29	
4-Bromofluorobenzene	460-00-4	97	%	30-186	06.25.13 11.29	
Toluene-D8	2037-26-5	98	%	70-130	06.25.13 11.29	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-2** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-004 Date Collected: 06.18.13 14.40

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.22.13 08.09

Seq Number: 916874

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	06.22.13 18.26	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	06.22.13 18.26	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	06.22.13 18.26	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	06.22.13 18.26	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	06.22.13 18.26	U	1
1,1-Dichloropropene	563-58-6	U	1.00	0.100	ug/L	06.22.13 18.26	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	06.22.13 18.26	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.210	ug/L	06.22.13 18.26	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	06.22.13 18.26	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	06.22.13 18.26	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	06.22.13 18.26	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	06.22.13 18.26	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.22.13 18.26	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	06.22.13 18.26	U	1
1,3,5-Trimethylbenzene	108-67-8	U	1.00	0.170	ug/L	06.22.13 18.26	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	06.22.13 18.26	U	1
1,3-Dichloropropane	142-28-9	U	1.00	0.190	ug/L	06.22.13 18.26	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	06.22.13 18.26	U	1
2,2-Dichloropropane	594-20-7	U	1.00	0.210	ug/L	06.22.13 18.26	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	06.22.13 18.26	U	1
2-Chlorotoluene	95-49-8	U	1.00	0.190	ug/L	06.22.13 18.26	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	06.22.13 18.26	U	1
4-Chlorotoluene	106-43-4	U	1.00	0.130	ug/L	06.22.13 18.26	U	1
4-Isopropyltoluene	99-87-6	U	1.00	0.130	ug/L	06.22.13 18.26	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	06.22.13 18.26	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	06.22.13 18.26	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	06.22.13 18.26	U	1
Bromobenzene	108-86-1	U	1.00	0.210	ug/L	06.22.13 18.26	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	06.22.13 18.26	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	06.22.13 18.26	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	06.22.13 18.26	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	06.22.13 18.26	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	06.22.13 18.26	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	06.22.13 18.26	U	1
Chlorodibromomethane	124-48-1	U	1.00	0.150	ug/L	06.22.13 18.26	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	06.22.13 18.26	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	06.22.13 18.26	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	06.22.13 18.26	U	1
cis-1,2-Dichloroethene	156-59-2	**13.8**	1.00	0.210	ug/L	06.22.13 18.26		1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-2** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-004 Date Collected: 06.18.13 14.40

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.22.13 08.09

Seq Number: 916874

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	06.22.13 18.26	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	06.22.13 18.26	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.22.13 18.26	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.22.13 18.26	U	1
Isopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.22.13 18.26	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	06.22.13 18.26	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.22.13 18.26	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.22.13 18.26	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	06.22.13 18.26	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.22.13 18.26	U	1
n-Butylbenzene	104-51-8	U	1.00	0.170	ug/L	06.22.13 18.26	U	1
n-Propylbenzene	103-65-1	U	1.00	0.180	ug/L	06.22.13 18.26	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.22.13 18.26	U	1
sec-Butylbenzene	135-98-8	U	1.00	0.210	ug/L	06.22.13 18.26	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	06.22.13 18.26	U	1
tert-Butylbenzene	98-06-6	U	1.00	0.180	ug/L	06.22.13 18.26	U	1
Tetrachloroethene	127-18-4	**30.4**	1.00	0.160	ug/L	06.22.13 18.26		1
Toluene	108-88-3	**1.06**	1.00	0.140	ug/L	06.22.13 18.26		1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	06.22.13 18.26	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	06.22.13 18.26	U	1
Trichloroethene	79-01-6	**14.6**	1.00	0.190	ug/L	06.22.13 18.26		1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	06.22.13 18.26	U	1
Vinyl acetate	108-05-4	U	1.00	0.720	ug/L	06.22.13 18.26	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	06.22.13 18.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	131	%	53-159	06.22.13 18.26	
4-Bromofluorobenzene	460-00-4	94	%	30-186	06.22.13 18.26	
Toluene-D8	2037-26-5	94	%	70-130	06.22.13 18.26	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-3** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-005 Date Collected: 06.18.13 15.00

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.22.13 08.09

Seq Number: 916874

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	06.22.13 18.52	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	06.22.13 18.52	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	06.22.13 18.52	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	06.22.13 18.52	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	06.22.13 18.52	U	1
1,1-Dichloropropene	563-58-6	U	1.00	0.100	ug/L	06.22.13 18.52	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	06.22.13 18.52	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.210	ug/L	06.22.13 18.52	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	06.22.13 18.52	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	06.22.13 18.52	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	06.22.13 18.52	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	06.22.13 18.52	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.22.13 18.52	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	06.22.13 18.52	U	1
1,3,5-Trimethylbenzene	108-67-8	U	1.00	0.170	ug/L	06.22.13 18.52	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	06.22.13 18.52	U	1
1,3-Dichloropropane	142-28-9	U	1.00	0.190	ug/L	06.22.13 18.52	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	06.22.13 18.52	U	1
2,2-Dichloropropane	594-20-7	U	1.00	0.210	ug/L	06.22.13 18.52	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	06.22.13 18.52	U	1
2-Chlorotoluene	95-49-8	U	1.00	0.190	ug/L	06.22.13 18.52	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	06.22.13 18.52	U	1
4-Chlorotoluene	106-43-4	U	1.00	0.130	ug/L	06.22.13 18.52	U	1
4-Isopropyltoluene	99-87-6	U	1.00	0.130	ug/L	06.22.13 18.52	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	06.22.13 18.52	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	06.22.13 18.52	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	06.22.13 18.52	U	1
Bromobenzene	108-86-1	U	1.00	0.210	ug/L	06.22.13 18.52	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	06.22.13 18.52	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	06.22.13 18.52	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	06.22.13 18.52	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	06.22.13 18.52	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	06.22.13 18.52	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	06.22.13 18.52	U	1
Chlorodibromomethane	124-48-1	U	1.00	0.150	ug/L	06.22.13 18.52	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	06.22.13 18.52	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	06.22.13 18.52	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	06.22.13 18.52	U	1
cis-1,2-Dichloroethene	156-59-2	**3.49**	1.00	0.210	ug/L	06.22.13 18.52		1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-3** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-005 Date Collected: 06.18.13 15.00

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.22.13 08.09

Seq Number: 916874

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	06.22.13 18.52	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	06.22.13 18.52	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.22.13 18.52	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.22.13 18.52	U	1
Isopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.22.13 18.52	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	06.22.13 18.52	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.22.13 18.52	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.22.13 18.52	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	06.22.13 18.52	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.22.13 18.52	U	1
n-Butylbenzene	104-51-8	U	1.00	0.170	ug/L	06.22.13 18.52	U	1
n-Propylbenzene	103-65-1	U	1.00	0.180	ug/L	06.22.13 18.52	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.22.13 18.52	U	1
sec-Butylbenzene	135-98-8	U	1.00	0.210	ug/L	06.22.13 18.52	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	06.22.13 18.52	U	1
tert-Butylbenzene	98-06-6	U	1.00	0.180	ug/L	06.22.13 18.52	U	1
Tetrachloroethene	127-18-4	**27.5**	1.00	0.160	ug/L	06.22.13 18.52		1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.22.13 18.52	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	06.22.13 18.52	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	06.22.13 18.52	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	06.22.13 18.52	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	06.22.13 18.52	U	1
Vinyl acetate	108-05-4	U	1.00	0.720	ug/L	06.22.13 18.52	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	06.22.13 18.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	128	%	53-159	06.22.13 18.52	
4-Bromofluorobenzene	460-00-4	99	%	30-186	06.22.13 18.52	
Toluene-D8	2037-26-5	94	%	70-130	06.22.13 18.52	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-006 Date Collected: 06.18.13 15.20

Analytical Method: Select Metals by SW-846 6010C Prep Method: SW3010A

Tech: ABA % Moisture:

Analyst: 4150 Date Prep: 06.24.13 09.21

Seq Number: 916962

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	U	0.0500	0.000300	mg/L	06.25.13 13.49	U	1
Lead	7439-92-1	U	0.0100	0.00330	mg/L	06.25.13 13.49	U	1

Analytical Method: EPH by MADEP Method Prep Method: SW3520C

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.20.13 10.30

Seq Number: 917179

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Unadjusted C11-C22 Aromatics	C11C22	**120**	100	100	ug/L	06.25.13 23.43		1
Unadjusted C9-C18 Aliphatics	ALHYDRC9C18	U	100	100	ug/L	06.26.13 08.37	U	1
Unadjusted C19-C36 Aliphatics	ALHYDRC19C3	U	100	100	ug/L	06.26.13 08.37	UX	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctadecane	3386-33-2	75	%	40-140	06.26.13 08.37	
o-Terphenyl	84-15-1	80	%	40-140	06.25.13 23.43	
2-Fluorobiphenyl	321-60-8	84	%	40-140	06.25.13 23.43	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-006 Date Collected: 06.18.13 15.20

Analytical Method: SVOCs by EPA 625M + 10 TICs Prep Method: E625P

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.21.13 14.00

Seq Number: 917130

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2,4-Trichlorobenzene	120-82-1	U	10.0	1.43	ug/L	06.28.13 14.41	U	1
1,2-Dichlorobenzene	95-50-1	U	10.0	1.83	ug/L	06.28.13 14.41	U	1
1,2-Diphenylhydrazine (as Azobenzene)	122-66-7	U	50.0	4.76	ug/L	06.28.13 14.41	U	1
1,3-Dichlorobenzene	541-73-1	U	10.0	2.11	ug/L	06.28.13 14.41	U	1
1,3-Dinitrobenzene	99-65-0	U	10.0	20.1	ug/L	06.28.13 14.41	U	1
2,4,6-Trichlorophenol	88-06-2	U	10.0	1.64	ug/L	06.28.13 14.41	U	1
2,4-Dichlorophenol	120-83-2	U	10.0	1.78	ug/L	06.28.13 14.41	U	1
2,4-Dimethylphenol	105-67-9	U	10.0	1.63	ug/L	06.28.13 14.41	U	1
2,4-Dinitrophenol	51-28-5	U	50.0	7.11	ug/L	06.28.13 14.41	U	1
2,4-Dinitrotoluene	121-14-2	U	10.0	2.14	ug/L	06.28.13 14.41	U	1
2,6-Dinitrotoluene	606-20-2	U	10.0	2.72	ug/L	06.28.13 14.41	U	1
2-Chloronaphthalene	91-58-7	U	10.0	1.29	ug/L	06.28.13 14.41	U	1
2-Chlorophenol	95-57-8	U	10.0	1.83	ug/L	06.28.13 14.41	U	1
2-Methylnaphthalene	91-57-6	**1.56**	10.0	1.19	ug/L	06.28.13 14.41	J	1
2-Methylphenol	95-48-7	U	10.0	2.00	ug/L	06.28.13 14.41	U	1
2-Nitrophenol	88-75-5	U	10.0	1.95	ug/L	06.28.13 14.41	U	1
3&4-Methylphenol	15831-10-4	U	10.0	2.55	ug/L	06.28.13 14.41	U	1
3,3-Dichlorobenzidine	91-94-1	U	20.0	3.88	ug/L	06.28.13 14.41	U	1
4,6-Dinitro-2-methyl phenol	534-52-1	U	50.0	1.40	ug/L	06.28.13 14.41	U	1
4-Bromophenyl phenyl ether	101-55-3	U	10.0	2.12	ug/L	06.28.13 14.41	U	1
4-Chloro-3-methylphenol	59-50-7	U	20.0	2.18	ug/L	06.28.13 14.41	U	1
4-Chloroaniline	106-47-8	U	10.0	3.09	ug/L	06.28.13 14.41	U	1
4-Chlorophenyl phenyl ether	7005-72-3	U	10.0	1.35	ug/L	06.28.13 14.41	U	1
4-Nitrophenol	100-02-7	U	50.0	2.41	ug/L	06.28.13 14.41	U	1
Acenaphthene	83-32-9	U	10.0	1.43	ug/L	06.28.13 14.41	U	1
Acenaphthylene	208-96-8	U	10.0	1.48	ug/L	06.28.13 14.41	U	1
Anthracene	120-12-7	U	10.0	2.01	ug/L	06.28.13 14.41	U	1
Benzo(a)anthracene	56-55-3	U	10.0	1.90	ug/L	06.28.13 14.41	U	1
Benzo(a)pyrene	50-32-8	U	10.0	1.80	ug/L	06.28.13 14.41	U	1
Benzo(b)fluoranthene	205-99-2	U	10.0	1.97	ug/L	06.28.13 14.41	U	1
Benzo(g,h,i)perylene	191-24-2	U	10.0	1.97	ug/L	06.28.13 14.41	U	1
Benzo(k)fluoranthene	207-08-9	U	10.0	2.71	ug/L	06.28.13 14.41	U	1
Benzoic acid	65-85-0	U	50.0	2.21	ug/L	06.28.13 14.41	U	1
Benzyl alcohol	100-51-6	U	20.0	1.23	ug/L	06.28.13 14.41	U	1
Bis(2-chloroethoxy) methane	111-91-1	U	10.0	1.25	ug/L	06.28.13 14.41	ULF	1
Bis(2-chloroethyl) ether	111-44-4	U	10.0	1.78	ug/L	06.28.13 14.41	U	1
Bis(2-chloroisopropyl) ether	39638-32-9	U	10.0	1.24	ug/L	06.28.13 14.41	U	1
Bis(2-ethylhexyl) phthalate	117-81-7	**1.57**	10.0	1.20	ug/L	06.28.13 14.41	J	1
Butyl benzyl phthalate	85-68-7	U	10.0	1.82	ug/L	06.28.13 14.41	U	1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-006 Date Collected: 06.18.13 15.20

Analytical Method: SVOCs by EPA 625M + 10 TICs Prep Method: E625P

Tech: BRO % Moisture:

Analyst: NTR Date Prep: 06.21.13 14.00

Seq Number: 917130

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chrysene	218-01-9	U	10.0	2.09	ug/L	06.28.13 14.41	U	1
Dibenz(a,h)anthracene	53-70-3	U	10.0	1.83	ug/L	06.28.13 14.41	U	1
Dibenzofuran	132-64-9	U	10.0	1.64	ug/L	06.28.13 14.41	U	1
Diethyl phthalate	84-66-2	U	10.0	1.90	ug/L	06.28.13 14.41	U	1
Dimethyl phthalate	131-11-3	U	10.0	1.97	ug/L	06.28.13 14.41	U	1
Di-n-butyl phthalate	84-74-2	U	10.0	2.08	ug/L	06.28.13 14.41	U	1
Di-n-octyl phthalate	117-84-0	U	10.0	1.38	ug/L	06.28.13 14.41	U	1
Fluoranthene	206-44-0	U	10.0	1.81	ug/L	06.28.13 14.41	U	1
Fluorene	86-73-7	U	10.0	1.56	ug/L	06.28.13 14.41	U	1
Hexachlorobenzene	118-74-1	U	10.0	2.21	ug/L	06.28.13 14.41	U	1
Hexachlorobutadiene	87-68-3	U	10.0	1.78	ug/L	06.28.13 14.41	U	1
Hexachlorocyclopentadiene	77-47-4	U	10.0	1.87	ug/L	06.28.13 14.41	UL	1
Hexachloroethane	67-72-1	U	10.0	2.38	ug/L	06.28.13 14.41	U	1
Indeno(1,2,3-c,d)pyrene	193-39-5	U	10.0	1.87	ug/L	06.28.13 14.41	U	1
Isophorone	78-59-1	U	10.0	1.41	ug/L	06.28.13 14.41	U	1
Naphthalene	91-20-3	**1.92**	10.0	1.52	ug/L	06.28.13 14.41	J	1
Nitrobenzene	98-95-3	U	10.0	1.49	ug/L	06.28.13 14.41	U	1
N-Nitrosodi-n-propylamine	621-64-7	U	10.0	1.36	ug/L	06.28.13 14.41	U	1
N-Nitrosodiphenylamine	86-30-6	U	10.0	2.50	ug/L	06.28.13 14.41	U	1
Pentachlorophenol	87-86-5	U	50.0	2.26	ug/L	06.28.13 14.41	U	1
Phenanthrene	85-01-8	U	10.0	2.04	ug/L	06.28.13 14.41	U	1
Phenol	108-95-2	U	10.0	1.76	ug/L	06.28.13 14.41	U	1
Pyrene	129-00-0	U	10.0	2.40	ug/L	06.28.13 14.41	U	1
3-Phenylbut-1-ene (TIC)	TIC	**4.27**			ug/L	06.28.13 14.41	JN	1
Diisooctyl adipate (TIC)	TIC	**8.22**			ug/L	06.28.13 14.41	JN	1
Hexadecane, 7,9-dimethyl- (TIC)	TIC	**4.84**			ug/L	06.28.13 14.41	JN	1
Octadecanoic acid (TIC)	TIC	**76.4**			ug/L	06.28.13 14.41	JN	1
Squalene (TIC)	TIC	**5.62**			ug/L	06.28.13 14.41	JN	1
n-Hexadecanoic acid (TIC)	TIC	**64.2**			ug/L	06.28.13 14.41	JN	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
2,4,6-Tribromophenol	118-79-6	85	%	32-129	06.28.13 14.41	
2-Fluorobiphenyl	321-60-8	73	%	39-99	06.28.13 14.41	
2-Fluorophenol	367-12-4	69	%	33-92	06.28.13 14.41	
Nitrobenzene-d5	4165-60-0	71	%	37-94	06.28.13 14.41	
Phenol-d5	4165-62-2	72	%	28-88	06.28.13 14.41	
Terphenyl-D14	1718-51-0	103	%	18-133	06.28.13 14.41	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4**
Lab Sample Id: 465343-006

Matrix: Ground Water
Date Collected: 06.18.13 15.20

Date Received: 06.19.13 10.00

Analytical Method: MADEP VPH REV 1.1
Tech: BAT
Analyst: MLA
Seq Number: 916782

Date Prep: 06.20.13 08.13

Prep Method: SW5030B
% Moisture:

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C5-C8 Aliphatics (Unadj.)	ALHYDRC5C8	U	15.0	15.0	ug/L	06.20.13 16.25	U	1
C9-C10 Aromatics (Unadj.)	HYDC9C10	**20.0**	5.00	5.00	ug/L	06.20.13 16.25		1
C9-C12 Aliphatics (Unadj.)	ALHYDRC9C12	**50.0**	15.0	15.0	ug/L	06.20.13 16.25	X	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
2,5-Dibromotoluene	615-59-8	113	%	70-130	06.20.13 16.25	
2,5-Dibromotoluene (PID)	615-59-8	108	%	70-130	06.20.13 16.25	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-006 Date Collected: 06.18.13 15.20

Analytical Method: VOCs by GC/MS by SM6200B Prep Method: SM6200B_PREP

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.26.13 07.23

Seq Number: 917159

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	0.500	0.0760	ug/L	06.26.13 11.39	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.500	0.0700	ug/L	06.26.13 11.39	U	1
1,1,2-Trichloroethane	79-00-5	U	0.500	0.113	ug/L	06.26.13 11.39	U	1
1,1-Dichloroethane	75-34-3	U	0.500	0.121	ug/L	06.26.13 11.39	U	1
1,1-Dichloroethene	75-35-4	U	0.500	0.104	ug/L	06.26.13 11.39	U	1
1,1-Dichloropropene	563-58-6	U	0.500	0.0600	ug/L	06.26.13 11.39	U	1
1,2,3-Trichlorobenzene	87-61-6	U	2.00	0.118	ug/L	06.26.13 11.39	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.138	ug/L	06.26.13 11.39	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.0690	ug/L	06.26.13 11.39	U	1
1,2,4-Trimethylbenzene	95-63-6	**7.54**	0.500	0.103	ug/L	06.26.13 11.39		1
1,2-Dibromoethane (EDB)		U	1.00	0.180	ug/L	06.26.13 11.39	U	1
1,2-Dichlorobenzene	95-50-1	U	0.500	0.0940	ug/L	06.26.13 11.39	U	1
1,2-Dichloroethane	107-06-2	U	0.500	0.0900	ug/L	06.26.13 11.39	U	1
1,2-Dichloropropane	78-87-5	U	0.500	0.122	ug/L	06.26.13 11.39	U	1
1,3,5-Trimethylbenzene	108-67-8	U	0.500	0.0870	ug/L	06.26.13 11.39	U	1
1,3-Dichlorobenzene	541-73-1	U	0.500	0.0980	ug/L	06.26.13 11.39	U	1
1,3-Dichloropropane	142-28-9	U	0.500	0.133	ug/L	06.26.13 11.39	U	1
1,4-Dichlorobenzene	106-46-7	U	0.500	0.0670	ug/L	06.26.13 11.39	U	1
2,2-Dichloropropane	594-20-7	U	0.200	0.0970	ug/L	06.26.13 11.39	U	1
2-Butanone (MEK)	78-93-3	U	20.0	0.378	ug/L	06.26.13 11.39	U	1
2-Chlorotoluene	95-49-8	U	0.200	0.0880	ug/L	06.26.13 11.39	U	1
2-Hexanone	591-78-6	U	0.400	0.352	ug/L	06.26.13 11.39	U	1
4-Chlorotoluene	106-43-4	U	0.500	0.0900	ug/L	06.26.13 11.39	U	1
4-Isopropyltoluene	99-87-6	U	0.500	0.0890	ug/L	06.26.13 11.39	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	0.400	0.253	ug/L	06.26.13 11.39	U	1
Acetone	67-64-1	U	2.00	0.352	ug/L	06.26.13 11.39	U	1
Benzene	71-43-2	U	0.500	0.119	ug/L	06.26.13 11.39	U	1
Bromobenzene	108-86-1	U	0.500	0.132	ug/L	06.26.13 11.39	U	1
Bromochloromethane	74-97-5	U	0.500	0.112	ug/L	06.26.13 11.39	U	1
Bromodichloromethane	75-27-4	U	0.500	0.124	ug/L	06.26.13 11.39	U	1
Bromoform	75-25-2	U	2.00	0.159	ug/L	06.26.13 11.39	U	1
Bromomethane	74-83-9	U	1.00	0.0970	ug/L	06.26.13 11.39	U	1
Carbon tetrachloride	56-23-5	U	0.500	0.0990	ug/L	06.26.13 11.39	U	1
Chlorobenzene	108-90-7	U	0.500	0.105	ug/L	06.26.13 11.39	U	1
Chlorodibromomethane	124-48-1	U	0.500	0.177	ug/L	06.26.13 11.39	U	1
Chloroethane	75-00-3	U	0.500	0.0420	ug/L	06.26.13 11.39	U	1
Chloroform	67-66-3	**1.50**	0.500	0.172	ug/L	06.26.13 11.39		1
Chloromethane	74-87-3	U	0.500	0.0850	ug/L	06.26.13 11.39	U	1
cis-1,2-Dichloroethene	156-59-2	U	0.500	0.114	ug/L	06.26.13 11.39	U	1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-4** Matrix: Ground Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-006 Date Collected: 06.18.13 15.20

Analytical Method: VOCs by GC/MS by SM6200B Prep Method: SM6200B_PREP

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.26.13 07.23

Seq Number: 917159

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	06.26.13 11.39	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.0670	ug/L	06.26.13 11.39	U	1
Ethanol	64-17-5	U	50.0	3.00	ug/L	06.26.13 11.39	U	1
Ethylbenzene	100-41-4	U	0.500	0.0920	ug/L	06.26.13 11.39	U	1
Isopropyl ether	108-20-3	U	0.500	0.0920	ug/L	06.26.13 11.39	U	1
Isopropylbenzene	98-82-8	**0.220**	0.500	0.0980	ug/L	06.26.13 11.39	J	1
Methyl tert-butyl ether (MTBE)	1634-04-4	U	0.500	0.169	ug/L	06.26.13 11.39	U	1
Methylene Chloride	75-09-2	U	0.500	0.190	ug/L	06.26.13 11.39	U	1
Naphthalene	91-20-3	**8.05**	2.00	0.0940	ug/L	06.26.13 11.39		1
n-Butylbenzene	104-51-8	U	2.00	0.0600	ug/L	06.26.13 11.39	U	1
n-Propylbenzene	103-65-1	**0.610**	1.00	0.0650	ug/L	06.26.13 11.39	J	1
sec-Butylbenzene	135-98-8	U	0.500	0.0920	ug/L	06.26.13 11.39	U	1
Styrene	100-42-5	U	0.500	0.0740	ug/L	06.26.13 11.39	U	1
tert-Butylbenzene	98-06-6	U	0.500	0.0890	ug/L	06.26.13 11.39	U	1
Tetrachloroethene (PCE)	127-18-4	**0.980**	0.500	0.0540	ug/L	06.26.13 11.39		1
Toluene	108-88-3	U	0.500	0.0570	ug/L	06.26.13 11.39	U	1
trans-1,2-Dichloroethene	156-60-5	U	0.500	0.188	ug/L	06.26.13 11.39	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	06.26.13 11.39	U	1
Trichloroethene	79-01-6	U	0.500	0.139	ug/L	06.26.13 11.39	U	1
Trichlorofluoromethane	75-69-4	U	0.500	0.0540	ug/L	06.26.13 11.39	U	1
Vinyl Acetate	108-05-4	U	1.00	0.720	ug/L	06.26.13 11.39	U	1
Vinyl Chloride	75-01-4	U	0.500	0.0810	ug/L	06.26.13 11.39	U	1
m,p-Xylenes	179601-23-1	**1.54**	1.00	0.176	ug/L	06.26.13 11.39		1
o-Xylene	95-47-6	**1.51**	0.500	0.122	ug/L	06.26.13 11.39		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	112	%	53-159	06.26.13 11.39	
4-Bromofluorobenzene	460-00-4	100	%	30-186	06.26.13 11.39	
Toluene-D8	2037-26-5	96	%	70-130	06.26.13 11.39	

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **Trip Blank** Matrix: Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-007 Date Collected: 06.18.13 00.00

Analytical Method: VOCs by GC/MS by SM6200B Prep Method: SM6200B_PREP

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.26.13 07.23

Seq Number: 917159

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	0.500	0.0760	ug/L	06.26.13 11.06	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.500	0.0700	ug/L	06.26.13 11.06	U	1
1,1,2-Trichloroethane	79-00-5	U	0.500	0.113	ug/L	06.26.13 11.06	U	1
1,1-Dichloroethane	75-34-3	U	0.500	0.121	ug/L	06.26.13 11.06	U	1
1,1-Dichloroethene	75-35-4	U	0.500	0.104	ug/L	06.26.13 11.06	U	1
1,1-Dichloropropene	563-58-6	U	0.500	0.0600	ug/L	06.26.13 11.06	U	1
1,2,3-Trichlorobenzene	87-61-6	U	2.00	0.118	ug/L	06.26.13 11.06	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.138	ug/L	06.26.13 11.06	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.0690	ug/L	06.26.13 11.06	U	1
1,2,4-Trimethylbenzene	95-63-6	U	0.500	0.103	ug/L	06.26.13 11.06	U	1
1,2-Dibromoethane (EDB)		U	1.00	0.180	ug/L	06.26.13 11.06	U	1
1,2-Dichlorobenzene	95-50-1	U	0.500	0.0940	ug/L	06.26.13 11.06	U	1
1,2-Dichloroethane	107-06-2	U	0.500	0.0900	ug/L	06.26.13 11.06	U	1
1,2-Dichloropropane	78-87-5	U	0.500	0.122	ug/L	06.26.13 11.06	U	1
1,3,5-Trimethylbenzene	108-67-8	U	0.500	0.0870	ug/L	06.26.13 11.06	U	1
1,3-Dichlorobenzene	541-73-1	U	0.500	0.0980	ug/L	06.26.13 11.06	U	1
1,3-Dichloropropane	142-28-9	U	0.500	0.133	ug/L	06.26.13 11.06	U	1
1,4-Dichlorobenzene	106-46-7	U	0.500	0.0670	ug/L	06.26.13 11.06	U	1
2,2-Dichloropropane	594-20-7	U	0.200	0.0970	ug/L	06.26.13 11.06	U	1
2-Butanone (MEK)	78-93-3	U	20.0	0.378	ug/L	06.26.13 11.06	U	1
2-Chlorotoluene	95-49-8	U	0.200	0.0880	ug/L	06.26.13 11.06	U	1
2-Hexanone	591-78-6	U	0.400	0.352	ug/L	06.26.13 11.06	U	1
4-Chlorotoluene	106-43-4	U	0.500	0.0900	ug/L	06.26.13 11.06	U	1
4-Isopropyltoluene	99-87-6	U	0.500	0.0890	ug/L	06.26.13 11.06	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	0.400	0.253	ug/L	06.26.13 11.06	U	1
Acetone	67-64-1	U	2.00	0.352	ug/L	06.26.13 11.06	U	1
Benzene	71-43-2	U	0.500	0.119	ug/L	06.26.13 11.06	U	1
Bromobenzene	108-86-1	U	0.500	0.132	ug/L	06.26.13 11.06	U	1
Bromochloromethane	74-97-5	U	0.500	0.112	ug/L	06.26.13 11.06	U	1
Bromodichloromethane	75-27-4	U	0.500	0.124	ug/L	06.26.13 11.06	U	1
Bromoform	75-25-2	U	2.00	0.159	ug/L	06.26.13 11.06	U	1
Bromomethane	74-83-9	U	1.00	0.0970	ug/L	06.26.13 11.06	U	1
Carbon tetrachloride	56-23-5	U	0.500	0.0990	ug/L	06.26.13 11.06	U	1
Chlorobenzene	108-90-7	U	0.500	0.105	ug/L	06.26.13 11.06	U	1
Chlorodibromomethane	124-48-1	U	0.500	0.177	ug/L	06.26.13 11.06	U	1
Chloroethane	75-00-3	U	0.500	0.0420	ug/L	06.26.13 11.06	U	1
Chloroform	67-66-3	U	0.500	0.172	ug/L	06.26.13 11.06	U	1
Chloromethane	74-87-3	U	0.500	0.0850	ug/L	06.26.13 11.06	U	1
cis-1,2-Dichloroethene	156-59-2	U	0.500	0.114	ug/L	06.26.13 11.06	U	1

Certificate of Analytical Results 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **Trip Blank** Matrix: Water Date Received:06.19.13 10.00

Lab Sample Id: 465343-007 Date Collected: 06.18.13 00.00

Analytical Method: VOCs by GC/MS by SM6200B Prep Method: SM6200B_PREP

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 06.26.13 07.23

Seq Number: 917159

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	06.26.13 11.06	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.0670	ug/L	06.26.13 11.06	U	1
Ethanol	64-17-5	U	50.0	3.00	ug/L	06.26.13 11.06	U	1
Ethylbenzene	100-41-4	U	0.500	0.0920	ug/L	06.26.13 11.06	U	1
Isopropyl ether	108-20-3	U	0.500	0.0920	ug/L	06.26.13 11.06	U	1
Isopropylbenzene	98-82-8	U	0.500	0.0980	ug/L	06.26.13 11.06	U	1
Methyl tert-butyl ether (MTBE)	1634-04-4	U	0.500	0.169	ug/L	06.26.13 11.06	U	1
Methylene Chloride	75-09-2	U	0.500	0.190	ug/L	06.26.13 11.06	U	1
Naphthalene	91-20-3	U	2.00	0.0940	ug/L	06.26.13 11.06	U	1
n-Butylbenzene	104-51-8	U	2.00	0.0600	ug/L	06.26.13 11.06	U	1
n-Propylbenzene	103-65-1	U	1.00	0.0650	ug/L	06.26.13 11.06	U	1
sec-Butylbenzene	135-98-8	U	0.500	0.0920	ug/L	06.26.13 11.06	U	1
Styrene	100-42-5	U	0.500	0.0740	ug/L	06.26.13 11.06	U	1
tert-Butylbenzene	98-06-6	U	0.500	0.0890	ug/L	06.26.13 11.06	U	1
Tetrachloroethene (PCE)	127-18-4	U	0.500	0.0540	ug/L	06.26.13 11.06	U	1
Toluene	108-88-3	U	0.500	0.0570	ug/L	06.26.13 11.06	U	1
trans-1,2-Dichloroethene	156-60-5	U	0.500	0.188	ug/L	06.26.13 11.06	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	06.26.13 11.06	U	1
Trichloroethene	79-01-6	U	0.500	0.139	ug/L	06.26.13 11.06	U	1
Trichlorofluoromethane	75-69-4	U	0.500	0.0540	ug/L	06.26.13 11.06	U	1
Vinyl Acetate	108-05-4	U	1.00	0.720	ug/L	06.26.13 11.06	U	1
Vinyl Chloride	75-01-4	U	0.500	0.0810	ug/L	06.26.13 11.06	U	1
m,p-Xylenes	179601-23-1	U	1.00	0.176	ug/L	06.26.13 11.06	U	1
o-Xylene	95-47-6	U	0.500	0.122	ug/L	06.26.13 11.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	112	%	53-159	06.26.13 11.06	
4-Bromofluorobenzene	460-00-4	101	%	30-186	06.26.13 11.06	
Toluene-D8	2037-26-5	91	%	70-130	06.26.13 11.06	

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services

Apex Village

Analytical Method: **Select Metals by SW-846 6010C** Prep Method: SW3050B
Seq Number: 916732 Matrix: Solid Date Prep: 06.20.13
MB Sample Id: 639971-1-BLK LCS Sample Id: 639971-1-BKS LCSD Sample Id: 639971-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chromium	<0.0600	100	98.5	99	97.5	98	80-120	1	20	mg/kg	06.20.13 16:38	
Lead	<0.279	100	98.6	99	98.2	98	80-120	0	20	mg/kg	06.20.13 16:38	

Analytical Method: **Select Metals by SW-846 6010C** Prep Method: SW3010A
Seq Number: 916962 Matrix: Water Date Prep: 06.24.13
MB Sample Id: 640082-1-BLK LCS Sample Id: 640082-1-BKS LCSD Sample Id: 640082-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chromium	0.000700	1.00	0.982	98	0.984	98	80-120	0	20	mg/L	06.25.13 12:59	
Lead	<0.00330	1.00	0.980	98	0.982	98	80-120	0	20	mg/L	06.25.13 12:59	

Analytical Method: **Select Metals by SW-846 6010C** Prep Method: SW3050B
Seq Number: 916732 Matrix: Soil Date Prep: 06.20.13
Parent Sample Id: 465297-001 MD Sample Id: 465297-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Chromium	5.75	8.10	34	20	mg/kg	06.20.13 16:49	F
Lead	28.9	30.8	6	20	mg/kg	06.20.13 16:49	

Analytical Method: **Select Metals by SW-846 6010C** Prep Method: SW3010A
Seq Number: 916962 Matrix: Surface Water Date Prep: 06.24.13
Parent Sample Id: 465405-001 MD Sample Id: 465405-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Chromium	<0.000300	<0.000300	0	20	mg/L	06.25.13 13:09	U
Lead	<0.00330	<0.00330	0	20	mg/L	06.25.13 13:09	U

Analytical Method: **Select Metals by SW-846 6010C** Prep Method: SW3050B
Seq Number: 916732 Matrix: Soil Date Prep: 06.20.13
Parent Sample Id: 465297-001 MS Sample Id: 465297-001 S MSD Sample Id: 465297-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chromium	5.75	109	110	96	120	99	80-120	9	20	mg/kg	06.20.13 16:51	
Lead	28.9	109	124	87	139	96	80-120	11	20	mg/kg	06.20.13 16:51	

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **Select Metals by SW-846 6010C** Prep Method: SW3010A
Seq Number: 916962 Matrix: Surface Water Date Prep: 06.24.13
Parent Sample Id: 465405-001 MS Sample Id: 465405-001 S MSD Sample Id: 465405-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chromium	<0.000300	1.00	0.976	98	0.963	96	80-120	1	20	mg/L	06.25.13 13:11	
Lead	<0.00330	1.00	0.960	96	0.948	95	80-120	1	20	mg/L	06.25.13 13:11	

Analytical Method: **Percent Moisture**
Seq Number: 916837 Matrix: Soil
Parent Sample Id: 465362-001 MD Sample Id: 465362-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	18.9	19.0	1	20	%	06.21.13 16:45	

Analytical Method: **EPH by MADEP Method** Prep Method: SW3520C
Seq Number: 917179 Matrix: Water Date Prep: 06.20.13
MB Sample Id: 640202-1-BLK LCS Sample Id: 640202-1-BKS LCSD Sample Id: 640202-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Unadjusted C11-C22 Aromatics	<100	850	637	75	622	73	40-140	2	40	ug/L	06.25.13 21:35	
Unadjusted C9-C18 Aliphatics	<100	300	231	77	222	74	40-140	4	40	ug/L	06.26.13 06:40	
Unadjusted C19-C36 Aliphatics	<100	400	427	107	415	104	40-140	3	40	ug/L	06.26.13 06:40	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctadecane	52		86		72		40-140	%	06.26.13 06:40
o-Terphenyl	68		78		75		40-140	%	06.25.13 21:35
2-Fluorobiphenyl	78		81		86		40-140	%	06.25.13 21:35

Analytical Method: **EPH by MADEP Method** Prep Method: SW3550
Seq Number: 917187 Matrix: Solid Date Prep: 06.20.13
MB Sample Id: 639999-1-BLK LCS Sample Id: 639999-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Unadjusted C11-C22 Aromatics	<6.67	28.3	19.1	67	40-140	mg/kg	06.26.13 01:08	
Unadjusted C9-C18 Aliphatics	<3.33	10.0	11.7	117	40-140	mg/kg	06.26.13 09:54	
Unadjusted C19-C36 Aliphatics	<3.33	13.3	14.6	110	40-140	mg/kg	06.26.13 09:54	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	Limits	Units	Analysis Date
1-Chlorooctadecane	61		84		40-140	%	06.26.13 09:54
o-Terphenyl	77		87		40-140	%	06.26.13 01:08
2-Fluorobiphenyl	86		64		40-140	%	06.26.13 01:08

QC Summary 465343

XENCO Laboratories
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Apex Village

Analytical Method: **EPH by MADEP Method** Prep Method: SW3550
Seq Number: 917187 Matrix: Soil Date Prep: 06.20.13
Parent Sample Id: 465343-001 MS Sample Id: 465343-001 S MSD Sample Id: 465343-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Unadjusted C11-C22 Aromatics	<20.0	84.9	56.4	66	61.5	73	40-140	9	40	mg/kg	06.26.13 01:51	
Unadjusted C9-C18 Aliphatics	<9.99	30.0	32.9	110	29.6	99	40-140	11	40	mg/kg	06.26.13 10:33	
Unadjusted C19-C36 Aliphatics	<9.99	40.0	61.2	153	50.7	127	40-140	19	40	mg/kg	06.26.13 10:33	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctadecane	76		72		40-140	%	06.26.13 10:33
o-Terphenyl	75		68		40-140	%	06.26.13 01:51
2-Fluorobiphenyl	79		77		40-140	%	06.26.13 01:51

Analytical Method: **EPH by MADEP Method** Prep Method: SW3520C
Seq Number: 917179 Matrix: Ground Water Date Prep: 06.20.13
Parent Sample Id: 465343-006 MS Sample Id: 465343-006 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Unadjusted C11-C22 Aromatics	120	850	709	69	40-140	ug/L	06.25.13 23:00	
Unadjusted C9-C18 Aliphatics	<100	300	220	73	40-140	ug/L	06.26.13 07:58	
Unadjusted C19-C36 Aliphatics	<100	400	563	141	40-140	ug/L	06.26.13 07:58	X

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
1-Chlorooctadecane	87		40-140	%	06.26.13 07:58
o-Terphenyl	87		40-140	%	06.25.13 23:00
2-Fluorobiphenyl	92		40-140	%	06.25.13 23:00

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **SVOCs by EPA 625M + 10 TICs** Prep Method: SW3520C
Seq Number: 917130 Matrix: Water Date Prep: 06.21.13
MB Sample Id: 640195-1-BLK LCS Sample Id: 640195-1-BKS LCSD Sample Id: 640195-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<1.43	50.0	35.9	72	37.1	74	44-142	3	30	ug/L	06.25.13 12:13	
1,2-Dichlorobenzene	<1.83	50.0	37.7	75	38.1	76	32-129	1	30	ug/L	06.25.13 12:13	
1,3-Dichlorobenzene	<2.11	50.0	35.8	72	35.6	71	10-172	1	30	ug/L	06.25.13 12:13	
1,3-Dinitrobenzene	<20.1	50.0	46.4	93	48.9	98	70-130	5	30	ug/L	06.25.13 12:13	
2,4,6-Trichlorophenol	<1.64	50.0	26.7	53	25.0	50	37-144	7	30	ug/L	06.25.13 12:13	
2,4-Dichlorophenol	<1.78	50.0	30.8	62	25.5	51	39-135	19	30	ug/L	06.25.13 12:13	
2,4-Dimethylphenol	<1.63	50.0	39.4	79	40.0	80	32-119	2	30	ug/L	06.25.13 12:13	
2,4-Dinitrophenol	<7.11	50.0	13.8	28	14.2	28	10-191	3	30	ug/L	06.25.13 12:13	
2,4-Dinitrotoluene	<2.14	50.0	46.0	92	50.1	100	39-139	9	30	ug/L	06.25.13 12:13	
2,6-Dinitrotoluene	<2.72	50.0	45.4	91	48.0	96	50-158	6	30	ug/L	06.25.13 12:13	
2-Chloronaphthalene	<1.29	50.0	41.5	83	45.6	91	60-118	9	30	ug/L	06.25.13 12:13	
2-Chlorophenol	<1.83	50.0	29.7	59	23.5	47	23-134	23	30	ug/L	06.25.13 12:13	
2-Methylnaphthalene	<1.19	50.0	36.3	73	39.2	78	45-105	8	30	ug/L	06.25.13 12:13	
2-Methylphenol	<2.00	50.0	37.5	75	32.6	65	40-110	14	30	ug/L	06.25.13 12:13	
2-Nitrophenol	<1.95	50.0	28.6	57	23.3	47	29-182	20	30	ug/L	06.25.13 12:13	
3&4-Methylphenol	<2.55	100	73.6	74	64.2	64	30-110	14	30	ug/L	06.25.13 12:13	
4,6-Dinitro-2-methyl phenol	<1.40	50.0	17.9	36	17.0	34	10-181	5	30	ug/L	06.25.13 12:13	
4-Bromophenyl phenyl ether	<2.12	50.0	44.3	89	46.2	92	53-127	4	30	ug/L	06.25.13 12:13	
4-Chloro-3-methylphenol	<2.18	50.0	40.0	80	34.9	70	22-147	14	30	ug/L	06.25.13 12:13	
4-Chloroaniline	<3.09	50.0	21.3	43	4.76	10	15-110	127	30	ug/L	06.25.13 12:13	LF
4-Chlorophenyl phenyl ether	<1.35	50.0	42.3	85	46.0	92	25-158	8	30	ug/L	06.25.13 12:13	
4-Nitrophenol	<2.41	50.0	14.1	28	16.1	32	10-132	13	30	ug/L	06.25.13 12:13	
Acenaphthene	<1.43	50.0	42.0	84	46.2	92	47-145	10	30	ug/L	06.25.13 12:13	
Acenaphthylene	<1.48	50.0	42.5	85	38.0	76	33-145	11	30	ug/L	06.25.13 12:13	
Anthracene	<2.01	50.0	43.2	86	44.3	89	27-133	3	30	ug/L	06.25.13 12:13	
Benzo(a)anthracene	<1.90	50.0	46.7	93	49.5	99	33-143	6	30	ug/L	06.25.13 12:13	
Benzo(a)pyrene	<1.80	50.0	37.9	76	38.7	77	17-163	2	30	ug/L	06.25.13 12:13	
Benzo(b)fluoranthene	<1.97	50.0	45.7	91	48.0	96	24-159	5	30	ug/L	06.25.13 12:13	
Benzo(g,h,i)perylene	<1.97	50.0	47.0	94	48.5	97	10-219	3	30	ug/L	06.25.13 12:13	
Benzo(k)fluoranthene	<2.71	50.0	42.7	85	46.2	92	11-162	8	30	ug/L	06.25.13 12:13	
Benzoic acid	<2.21	50.0	13.3	27	16.6	33	1-125	22	30	ug/L	06.25.13 12:13	
Benzyl alcohol	<1.23	50.0	38.3	77	36.7	73	30-110	4	30	ug/L	06.25.13 12:13	
Bis(2-chloroethoxy) methane	<1.25	50.0	37.9	76	16.0	32	33-184	81	30	ug/L	06.25.13 12:13	LF
Bis(2-chloroethyl) ether	<1.78	50.0	40.6	81	42.0	84	12-158	3	30	ug/L	06.25.13 12:13	
Bis(2-chloroisopropyl) ether	<1.24	50.0	50.6	101	52.2	104	36-166	3	30	ug/L	06.25.13 12:13	
Bis(2-ethylhexyl) phthalate	<1.20	50.0	56.5	113	56.6	113	8-158	0	30	ug/L	06.25.13 12:13	
Butyl benzyl phthalate	<1.82	50.0	51.9	104	48.3	97	10-152	7	30	ug/L	06.25.13 12:13	
Chrysene	<2.09	50.0	46.2	92	48.1	96	17-168	4	30	ug/L	06.25.13 12:13	
Dibenz(a,h)anthracene	<1.83	50.0	43.0	86	46.7	93	10-227	8	30	ug/L	06.25.13 12:13	
Dibenzofuran	<1.64	50.0	40.3	81	43.5	87	55-105	8	30	ug/L	06.25.13 12:13	
Diethyl phthalate	<1.90	50.0	46.4	93	48.4	97	10-114	4	30	ug/L	06.25.13 12:13	
Dimethyl phthalate	<1.97	50.0	44.9	90	46.7	93	10-112	4	30	ug/L	06.25.13 12:13	
Di-n-butyl phthalate	<2.08	50.0	46.5	93	48.4	97	1-118	4	30	ug/L	06.25.13 12:13	
Di-n-octyl phthalate	<1.38	50.0	50.9	102	52.5	105	4-146	3	30	ug/L	06.25.13 12:13	
Fluoranthene	<1.81	50.0	46.3	93	48.4	97	26-137	4	30	ug/L	06.25.13 12:13	
Fluorene	<1.56	50.0	44.5	89	47.7	95	59-121	7	30	ug/L	06.25.13 12:13	
Hexachlorobenzene	<2.21	50.0	45.1	90	47.3	95	10-152	5	30	ug/L	06.25.13 12:13	
Hexachlorobutadiene	<1.78	50.0	30.5	61	31.0	62	24-116	2	30	ug/L	06.25.13 12:13	
Hexachlorocyclopentadiene	<1.87	50.0	9.69	19	9.47	19	70-130	2	30	ug/L	06.25.13 12:13	L
Hexachloroethane	<2.38	50.0	34.8	70	32.7	65	40-113	6	30	ug/L	06.25.13 12:13	
Indeno(1,2,3-c,d)pyrene	<1.87	50.0	42.1	84	44.7	89	10-171	6	30	ug/L	06.25.13 12:13	
Isophorone	<1.41	50.0	42.5	85	45.9	92	21-196	8	30	ug/L	06.25.13 12:13	

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services

Apex Village

Analytical Method: **SVOCs by EPA 625M + 10 TICs** Prep Method: SW3520C
Seq Number: 917130 Matrix: Water Date Prep: 06.21.13
MB Sample Id: 640195-1-BLK LCS Sample Id: 640195-1-BKS LCSD Sample Id: 640195-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Naphthalene	<1.52	50.0	39.4	79	41.8	84	21-133	6	30	ug/L	06.25.13 12:13	
Nitrobenzene	<1.49	50.0	41.1	82	42.7	85	35-180	4	30	ug/L	06.25.13 12:13	
N-Nitrosodi-n-propylamine	<1.36	50.0	43.4	87	47.1	94	10-230	8	30	ug/L	06.25.13 12:13	
N-Nitrosodiphenylamine	<2.50	50.0	31.3	63	18.1	36	50-110	53	30	ug/L	06.25.13 12:13	LF
Pentachlorophenol	<2.26	50.0	23.0	46	21.9	44	14-176	5	30	ug/L	06.25.13 12:13	
Phenanthrene	<2.04	50.0	45.7	91	47.3	95	54-120	3	30	ug/L	06.25.13 12:13	
Phenol	<1.76	50.0	29.1	58	23.1	46	5-112	23	30	ug/L	06.25.13 12:13	
Pyrene	<2.40	50.0	46.0	92	47.0	94	52-115	2	30	ug/L	06.25.13 12:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
2,4,6-Tribromophenol	79		64		60		32-129	%	06.25.13 12:13
2-Fluorobiphenyl	76		79		89		39-99	%	06.25.13 12:13
2-Fluorophenol	70		57		49		33-92	%	06.25.13 12:13
Nitrobenzene-d5	72		75		81		37-94	%	06.25.13 12:13
Phenol-d5	69		69		60		28-88	%	06.25.13 12:13
Terphenyl-D14	102		98		104		18-133	%	06.25.13 12:13

Analytical Method: **SVOCs by EPA 625M + 10 TICs** Prep Method: SW3520C
Seq Number: 917130 Matrix: Water Date Prep: 06.21.13
MB Sample Id: 640195-1-BLK LCS Sample Id: 640195-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
3,3-Dichlorobenzidine	<3.88	50.0	13.6	27	10-262	ug/L	06.25.13 12:13	

Analytical Method: **SVOCs by EPA 625M + 10 TICs** Prep Method: SW3520C
Seq Number: 917130 Matrix: Water Date Prep: 06.21.13
MB Sample Id: 640195-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
1,2-Diphenylhydrazine (as Azobenzene)	U	ug/L	06.25.13 11:44	

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **SVOCs by EPA 625M + 10 TICs** Prep Method: SW3520C
Seq Number: 917130 Matrix: Ground Water Date Prep: 06.21.13
Parent Sample Id: 465284-006 MS Sample Id: 465284-006 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<1.43	50.0	22.1	44	44-142	ug/L	06.25.13 13:10	
1,2-Dichlorobenzene	<1.83	50.0	22.4	45	32-129	ug/L	06.25.13 13:10	
1,3-Dichlorobenzene	<2.11	50.0	21.4	43	10-172	ug/L	06.25.13 13:10	
1,3-Dinitrobenzene	<20.1	50.0	35.3	71	70-130	ug/L	06.25.13 13:10	
2,4,6-Trichlorophenol	<1.64	50.0	29.9	60	37-144	ug/L	06.25.13 13:10	
2,4-Dichlorophenol	<1.78	50.0	24.9	50	39-135	ug/L	06.25.13 13:10	
2,4-Dimethylphenol	<1.63	50.0	25.9	52	32-119	ug/L	06.25.13 13:10	
2,4-Dinitrophenol	<7.11	50.0	21.1	42	10-191	ug/L	06.25.13 13:10	
2,4-Dinitrotoluene	<2.14	50.0	35.7	71	39-139	ug/L	06.25.13 13:10	
2,6-Dinitrotoluene	<2.72	50.0	33.2	66	50-158	ug/L	06.25.13 13:10	
2-Chloronaphthalene	<1.29	50.0	29.1	58	60-118	ug/L	06.25.13 13:10	X
2-Chlorophenol	<1.83	50.0	22.2	44	23-134	ug/L	06.25.13 13:10	
2-Methylnaphthalene	<1.19	50.0	23.4	47	45-105	ug/L	06.25.13 13:10	
2-Methylphenol	<2.00	50.0	22.7	45	40-110	ug/L	06.25.13 13:10	
2-Nitrophenol	<1.95	50.0	23.6	47	29-182	ug/L	06.25.13 13:10	
3&4-Methylphenol	<2.55	100	46.1	46	30-110	ug/L	06.25.13 13:10	
3,3-Dichlorobenzidine	<3.88	50.0	9.23	18	10-262	ug/L	06.25.13 13:10	
4,6-Dinitro-2-methyl phenol	<1.40	50.0	24.4	49	10-181	ug/L	06.25.13 13:10	
4-Bromophenyl phenyl ether	<2.12	50.0	32.2	64	53-127	ug/L	06.25.13 13:10	
4-Chloro-3-methylphenol	<2.18	50.0	30.7	61	22-147	ug/L	06.25.13 13:10	
4-Chloroaniline	<3.09	50.0	7.96	16	15-110	ug/L	06.25.13 13:10	
4-Chlorophenyl phenyl ether	<1.35	50.0	31.6	63	25-158	ug/L	06.25.13 13:10	
4-Nitrophenol	<2.41	50.0	14.3	29	10-132	ug/L	06.25.13 13:10	
Acenaphthene	<1.43	50.0	30.9	62	47-145	ug/L	06.25.13 13:10	
Acenaphthylene	<1.48	50.0	32.6	65	33-145	ug/L	06.25.13 13:10	
Anthracene	<2.01	50.0	32.5	65	27-133	ug/L	06.25.13 13:10	
Benzo(a)anthracene	<1.90	50.0	34.6	69	33-143	ug/L	06.25.13 13:10	
Benzo(a)pyrene	<1.80	50.0	24.0	48	17-163	ug/L	06.25.13 13:10	
Benzo(b)fluoranthene	<1.97	50.0	32.1	64	24-159	ug/L	06.25.13 13:10	
Benzo(g,h,i)perylene	<1.97	50.0	31.9	64	10-219	ug/L	06.25.13 13:10	
Benzo(k)fluoranthene	<2.71	50.0	30.4	61	11-162	ug/L	06.25.13 13:10	
Benzoic acid	<2.21	50.0	17.0	34	1-125	ug/L	06.25.13 13:10	
Benzyl alcohol	<1.23	50.0	20.2	40	30-110	ug/L	06.25.13 13:10	
Bis(2-chloroethoxy) methane	<1.25	50.0	26.2	52	33-184	ug/L	06.25.13 13:10	
Bis(2-chloroethyl) ether	<1.78	50.0	24.6	49	12-158	ug/L	06.25.13 13:10	
Bis(2-chloroisopropyl) ether	<1.24	50.0	30.7	61	36-166	ug/L	06.25.13 13:10	
Bis(2-ethylhexyl) phthalate	3.82	50.0	37.2	67	8-158	ug/L	06.25.13 13:10	
Butyl benzyl phthalate	<1.82	50.0	38.0	76	10-152	ug/L	06.25.13 13:10	
Chrysene	<2.09	50.0	33.4	67	17-168	ug/L	06.25.13 13:10	
Dibenz(a,h)anthracene	<1.83	50.0	30.6	61	10-227	ug/L	06.25.13 13:10	
Dibenzofuran	<1.64	50.0	30.3	61	55-105	ug/L	06.25.13 13:10	
Diethyl phthalate	<1.90	50.0	35.8	72	10-114	ug/L	06.25.13 13:10	
Dimethyl phthalate	<1.97	50.0	34.2	68	10-112	ug/L	06.25.13 13:10	
Di-n-butyl phthalate	<2.08	50.0	34.0	68	1-118	ug/L	06.25.13 13:10	
Di-n-octyl phthalate	<1.38	50.0	34.3	69	4-146	ug/L	06.25.13 13:10	
Fluoranthene	<1.81	50.0	33.9	68	26-137	ug/L	06.25.13 13:10	
Fluorene	<1.56	50.0	33.5	67	59-121	ug/L	06.25.13 13:10	
Hexachlorobenzene	<2.21	50.0	32.7	65	10-152	ug/L	06.25.13 13:10	
Hexachlorobutadiene	<1.78	50.0	17.7	35	24-116	ug/L	06.25.13 13:10	
Hexachlorocyclopentadiene	<1.87	50.0	11.3	23	70-130	ug/L	06.25.13 13:10	X
Hexachloroethane	<2.38	50.0	20.0	40	40-113	ug/L	06.25.13 13:10	
Indeno(1,2,3-c,d)pyrene	<1.87	50.0	29.2	58	10-171	ug/L	06.25.13 13:10	

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services

Apex Village

Analytical Method: **SVOCs by EPA 625M + 10 TICs** Prep Method: SW3520C

Seq Number: 917130 Matrix: Ground Water Date Prep: 06.21.13

Parent Sample Id: 465284-006 MS Sample Id: 465284-006 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Isophorone	<1.41	50.0	28.7	57	21-196	ug/L	06.25.13 13:10	
Naphthalene	<1.52	50.0	24.6	49	21-133	ug/L	06.25.13 13:10	
Nitrobenzene	<1.49	50.0	25.6	51	35-180	ug/L	06.25.13 13:10	
N-Nitrosodi-n-propylamine	<1.36	50.0	29.8	60	10-230	ug/L	06.25.13 13:10	
N-Nitrosodiphenylamine	<2.50	50.0	28.2	56	50-110	ug/L	06.25.13 13:10	
Pentachlorophenol	<2.26	50.0	27.4	55	14-176	ug/L	06.25.13 13:10	
Phenanthrene	<2.04	50.0	33.2	66	54-120	ug/L	06.25.13 13:10	
Phenol	<1.76	50.0	15.5	31	5-112	ug/L	06.25.13 13:10	
Pyrene	<2.40	50.0	34.2	68	52-115	ug/L	06.25.13 13:10	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
2,4,6-Tribromophenol	78		32-129	%	06.25.13 13:10
2-Fluorobiphenyl	68		39-99	%	06.25.13 13:10
2-Fluorophenol	55		33-92	%	06.25.13 13:10
Nitrobenzene-d5	58		37-94	%	06.25.13 13:10
Phenol-d5	57		28-88	%	06.25.13 13:10
Terphenyl-D14	86		18-133	%	06.25.13 13:10

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **SVOCs by SW-846 8270D** Prep Method: SW3550

Seq Number: 916744 Matrix: Solid Date Prep: 06.20.13

MB Sample Id: 639993-1-BLK LCS Sample Id: 639993-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<0.0590	1.67	1.45	87	52-104	mg/kg	06.20.13 18:23	
1,2-Dichlorobenzene	<0.0540	1.67	1.39	83	49-103	mg/kg	06.20.13 18:23	
1,2-Diphenylhydrazine	<0.0367	1.67	1.40	84	43-133	mg/kg	06.20.13 18:23	
1,3-Dichlorobenzene	<0.0527	1.67	1.41	84	48-101	mg/kg	06.20.13 18:23	
1,4-Dichlorobenzene	<0.0520	1.67	1.38	83	46-99	mg/kg	06.20.13 18:23	
2,4,6-Trichlorophenol	<0.0643	1.67	1.44	86	47-118	mg/kg	06.20.13 18:23	
2,4-Dichlorophenol	<0.0423	1.67	1.35	81	51-109	mg/kg	06.20.13 18:23	
2,4-Dimethylphenol	<0.0607	1.67	1.38	83	46-106	mg/kg	06.20.13 18:23	
2,4-Dinitrophenol	<0.0537	1.67	1.08	65	15-130	mg/kg	06.20.13 18:23	
2,4-Dinitrotoluene	<0.0537	1.67	1.48	89	53-125	mg/kg	06.20.13 18:23	
2,6-Dinitrotoluene	<0.0433	1.67	1.43	86	48-128	mg/kg	06.20.13 18:23	
2-Chloronaphthalene	<0.0607	1.67	1.44	86	54-109	mg/kg	06.20.13 18:23	
2-Chlorophenol	<0.0597	1.67	1.36	81	47-105	mg/kg	06.20.13 18:23	
2-Methylnaphthalene	<0.0510	1.67	1.29	77	45-102	mg/kg	06.20.13 18:23	
2-methylphenol	<0.0467	1.67	1.29	77	48-106	mg/kg	06.20.13 18:23	
2-Nitrophenol	<0.0420	1.67	1.35	81	38-118	mg/kg	06.20.13 18:23	
3&4-Methylphenol	<0.0987	3.33	2.67	80	40-105	mg/kg	06.20.13 18:23	
3,3-Dichlorobenzidine	<0.0487	1.67	1.19	71	14-139	mg/kg	06.20.13 18:23	
4,6-dinitro-2-methyl phenol	<0.0580	1.67	1.24	74	14-141	mg/kg	06.20.13 18:23	
4-Bromophenyl-phenylether	<0.0567	1.67	1.58	95	54-119	mg/kg	06.20.13 18:23	
4-chloro-3-methylphenol	<0.0477	1.67	1.37	82	45-115	mg/kg	06.20.13 18:23	
4-Chloroaniline	<0.0553	1.67	1.00	60	16-139	mg/kg	06.20.13 18:23	
4-Chlorophenyl Phenyl Ether	<0.0633	1.67	1.50	90	56-113	mg/kg	06.20.13 18:23	
4-Nitrophenol	<0.0410	1.67	1.09	65	35-122	mg/kg	06.20.13 18:23	
Acenaphthene	<0.0467	1.67	1.48	89	50-113	mg/kg	06.20.13 18:23	
Acenaphthylene	<0.0567	1.67	1.54	92	57-126	mg/kg	06.20.13 18:23	
Anthracene	<0.0493	1.67	1.48	89	60-116	mg/kg	06.20.13 18:23	
Benzo(a)anthracene	<0.0540	1.67	1.51	90	56-123	mg/kg	06.20.13 18:23	
Benzo(a)pyrene	<0.0490	1.67	1.45	87	58-101	mg/kg	06.20.13 18:23	
Benzo(b)fluoranthene	<0.0543	1.67	1.53	92	60-111	mg/kg	06.20.13 18:23	
Benzo(g,h,i)perylene	<0.0550	1.67	1.43	86	57-122	mg/kg	06.20.13 18:23	
Benzo(k)fluoranthene	<0.0573	1.67	1.45	87	59-116	mg/kg	06.20.13 18:23	
Benzoic Acid	<0.0527	1.67	1.19	71	50-125	mg/kg	06.20.13 18:23	
Benzyl Alcohol	<0.0533	1.67	1.33	80	45-107	mg/kg	06.20.13 18:23	
bis(2-chloroethoxy) methane	<0.0400	1.67	1.43	86	50-106	mg/kg	06.20.13 18:23	
bis(2-chloroethyl) ether	<0.0473	1.67	1.35	81	50-103	mg/kg	06.20.13 18:23	
bis(2-chloroisopropyl) ether	<0.0450	1.67	1.66	99	43-117	mg/kg	06.20.13 18:23	
bis(2-ethylhexyl) phthalate	<0.0540	1.67	1.40	84	46-137	mg/kg	06.20.13 18:23	
Butylbenzylphthalate	<0.0500	1.67	1.41	84	44-137	mg/kg	06.20.13 18:23	
Chrysene	<0.0443	1.67	1.47	88	57-114	mg/kg	06.20.13 18:23	
Dibenz(a,h)Anthracene	<0.0647	1.67	1.44	86	57-123	mg/kg	06.20.13 18:23	
Dibenzofuran	<0.0427	1.67	1.36	81	50-109	mg/kg	06.20.13 18:23	
Diethyl Phthalate	<0.0537	1.67	1.44	86	51-124	mg/kg	06.20.13 18:23	
Dimethyl Phthalate	<0.0503	1.67	1.46	87	53-116	mg/kg	06.20.13 18:23	
di-n-Butyl Phthalate	<0.0613	1.67	1.40	84	53-127	mg/kg	06.20.13 18:23	
di-n-Octyl Phthalate	<0.0553	1.67	1.37	82	46-133	mg/kg	06.20.13 18:23	
Fluoranthene	<0.0433	1.67	1.51	90	61-115	mg/kg	06.20.13 18:23	
Fluorene	<0.0407	1.67	1.46	87	55-114	mg/kg	06.20.13 18:23	
Hexachlorobenzene	<0.0557	1.67	1.72	103	54-121	mg/kg	06.20.13 18:23	
Hexachlorobutadiene	<0.0370	1.67	1.42	85	50-110	mg/kg	06.20.13 18:23	
Hexachlorocyclopentadiene	<0.0573	1.67	1.32	79	60-144	mg/kg	06.20.13 18:23	
Hexachloroethane	<0.0517	1.67	1.28	77	42-109	mg/kg	06.20.13 18:23	

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services

Apex Village

Analytical Method: **SVOCs by SW-846 8270D** Prep Method: SW3550

Seq Number: 916744 Matrix: Solid Date Prep: 06.20.13

MB Sample Id: 639993-1-BLK LCS Sample Id: 639993-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Indeno(1,2,3-c,d)Pyrene	<0.0607	1.67	1.39	83	58-127	mg/kg	06.20.13 18:23	
Isophorone	<0.0343	1.67	1.37	82	47-143	mg/kg	06.20.13 18:23	
Naphthalene	<0.0533	1.67	1.41	84	50-106	mg/kg	06.20.13 18:23	
Nitrobenzene	<0.0593	1.67	1.33	80	47-107	mg/kg	06.20.13 18:23	
N-Nitrosodi-n-Propylamine	<0.0477	1.67	1.43	86	43-125	mg/kg	06.20.13 18:23	
N-Nitrosodiphenylamine	<0.0700	1.67	1.54	92	54-127	mg/kg	06.20.13 18:23	
Pentachlorophenol	<0.0603	1.67	1.34	80	10-141	mg/kg	06.20.13 18:23	
Phenanthrene	<0.0553	1.67	1.49	89	59-112	mg/kg	06.20.13 18:23	
Phenol	<0.0467	1.67	1.29	77	45-108	mg/kg	06.20.13 18:23	
Pyrene	<0.0567	1.67	1.44	86	52-124	mg/kg	06.20.13 18:23	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	Limits	Units	Analysis Date
2-Fluorobiphenyl	50		84		20-112	%	06.20.13 18:23
2-Fluorophenol	3	**	81		18-101	%	06.20.13 18:23
Nitrobenzene-d5	33		75		13-112	%	06.20.13 18:23
Phenol-d5	8	**	78		15-110	%	06.20.13 18:23
Terphenyl-D14	83		84		21-138	%	06.20.13 18:23
2,4,6-Tribromophenol	82		107		21-128	%	06.20.13 18:23

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **SVOCs by SW-846 8270D** Prep Method: SW3550
Seq Number: 916744 Matrix: Soil Date Prep: 06.20.13
Parent Sample Id: 465343-001 MS Sample Id: 465343-001 S MSD Sample Id: 465343-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<0.0588	1.66	1.21	73	1.03	62	45-110	16	30	mg/kg	06.20.13 20:17	
1,2-Dichlorobenzene	<0.0538	1.66	1.13	68	1.04	63	45-100	8	30	mg/kg	06.20.13 20:17	
1,2-Diphenylhydrazine	<0.0365	1.66	1.26	76	1.21	73	45-120	4	30	mg/kg	06.20.13 20:17	
1,3-Dichlorobenzene	<0.0525	1.66	1.12	67	1.02	61	40-100	9	30	mg/kg	06.20.13 20:17	
1,4-Dichlorobenzene	<0.0518	1.66	1.12	67	1.01	61	35-105	10	30	mg/kg	06.20.13 20:17	
2,4,6-Trichlorophenol	<0.0641	1.66	1.26	76	1.07	64	45-110	16	30	mg/kg	06.20.13 20:17	
2,4-Dichlorophenol	<0.0422	1.66	1.20	72	1.05	63	45-110	13	30	mg/kg	06.20.13 20:17	
2,4-Dimethylphenol	<0.0604	1.66	1.18	71	1.09	66	30-105	8	30	mg/kg	06.20.13 20:17	
2,4-Dinitrophenol	<0.0535	1.66	0.887	53	0.722	43	15-130	21	30	mg/kg	06.20.13 20:17	
2,4-Dinitrotoluene	<0.0535	1.66	1.31	79	1.23	74	50-115	6	30	mg/kg	06.20.13 20:17	
2,6-Dinitrotoluene	<0.0432	1.66	1.28	77	1.18	71	50-110	8	30	mg/kg	06.20.13 20:17	
2-Chloronaphthalene	<0.0604	1.66	1.27	77	1.13	68	45-105	12	30	mg/kg	06.20.13 20:17	
2-Chlorophenol	<0.0594	1.66	1.11	67	1.04	63	45-105	7	30	mg/kg	06.20.13 20:17	
2-Methylnaphthalene	<0.0508	1.66	1.12	67	0.997	60	45-105	12	30	mg/kg	06.20.13 20:17	
2-methylphenol	<0.0465	1.66	1.12	67	1.08	65	40-105	4	30	mg/kg	06.20.13 20:17	
2-Nitrophenol	<0.0418	1.66	1.11	67	0.991	60	40-110	11	30	mg/kg	06.20.13 20:17	
3&4-Methylphenol	<0.0983	3.32	2.27	68	2.14	64	40-105	6	30	mg/kg	06.20.13 20:17	
3,3-Dichlorobenzidine	<0.0485	1.66	1.02	61	0.935	56	20-140	9	30	mg/kg	06.20.13 20:17	
4,6-dinitro-2-methyl phenol	<0.0578	1.66	1.12	67	0.840	51	30-135	29	30	mg/kg	06.20.13 20:17	
4-Bromophenyl-phenylether	<0.0565	1.66	1.43	86	1.16	70	45-115	21	30	mg/kg	06.20.13 20:17	
4-chloro-3-methylphenol	<0.0475	1.66	1.18	71	1.10	66	45-115	7	30	mg/kg	06.20.13 20:17	
4-Chloroaniline	<0.0551	1.66	0.920	55	0.871	52	4-149	5	30	mg/kg	06.20.13 20:17	
4-Chlorophenyl Phenyl Ether	<0.0631	1.66	1.31	79	1.11	67	45-110	17	30	mg/kg	06.20.13 20:17	
4-Nitrophenol	<0.0409	1.66	0.959	58	1.03	62	15-140	7	30	mg/kg	06.20.13 20:17	
Acenaphthene	<0.0465	1.66	1.29	78	1.16	70	45-110	11	30	mg/kg	06.20.13 20:17	
Acenaphthylene	<0.0565	1.66	1.36	82	1.23	74	45-105	10	30	mg/kg	06.20.13 20:17	
Anthracene	<0.0492	1.66	1.32	80	1.17	70	55-105	12	30	mg/kg	06.20.13 20:17	
Benzo(a)anthracene	<0.0538	1.66	1.36	82	1.22	73	50-110	11	30	mg/kg	06.20.13 20:17	
Benzo(a)pyrene	<0.0488	1.66	1.27	77	1.15	69	50-110	10	30	mg/kg	06.20.13 20:17	
Benzo(b)fluoranthene	<0.0541	1.66	1.31	79	1.16	70	45-115	12	30	mg/kg	06.20.13 20:17	
Benzo(g,h,i)perylene	<0.0548	1.66	1.29	78	1.24	75	40-125	4	30	mg/kg	06.20.13 20:17	
Benzo(k)fluoranthene	<0.0571	1.66	1.28	77	1.13	68	45-125	12	30	mg/kg	06.20.13 20:17	
Benzoic Acid	<0.0525	1.66	0.944	57	0.890	54	50-125	6	30	mg/kg	06.20.13 20:17	
Benzyl Alcohol	<0.0531	1.66	1.14	69	1.06	64	20-125	7	30	mg/kg	06.20.13 20:17	
bis(2-chloroethoxy) methane	<0.0399	1.66	1.23	74	1.11	67	45-110	10	30	mg/kg	06.20.13 20:17	
bis(2-chloroethyl) ether	<0.0472	1.66	1.13	68	1.10	66	40-105	3	30	mg/kg	06.20.13 20:17	
bis(2-chloroisopropyl) ether	<0.0448	1.66	1.38	83	1.33	80	20-115	4	30	mg/kg	06.20.13 20:17	
bis(2-ethylhexyl) phthalate	<0.0538	1.66	1.29	78	1.34	81	45-125	4	30	mg/kg	06.20.13 20:17	
Butylbenzylphthalate	<0.0498	1.66	1.29	78	1.26	76	50-125	2	30	mg/kg	06.20.13 20:17	
Chrysene	<0.0442	1.66	1.30	78	1.17	70	55-110	11	30	mg/kg	06.20.13 20:17	
Dibenz(a,h)Anthracene	<0.0644	1.66	1.28	77	1.16	70	40-125	10	30	mg/kg	06.20.13 20:17	
Dibenzofuran	<0.0425	1.66	1.21	73	1.07	64	50-105	12	30	mg/kg	06.20.13 20:17	
Diethyl Phthalate	<0.0535	1.66	1.29	78	1.21	73	50-115	6	30	mg/kg	06.20.13 20:17	
Dimethyl Phthalate	<0.0501	1.66	1.29	78	1.19	72	50-110	8	30	mg/kg	06.20.13 20:17	
di-n-Butyl Phthalate	<0.0611	1.66	1.29	78	1.19	72	55-110	8	30	mg/kg	06.20.13 20:17	
di-n-Octyl Phthalate	<0.0551	1.66	1.26	76	1.26	76	40-130	0	30	mg/kg	06.20.13 20:17	
Fluoranthene	<0.0432	1.66	1.37	83	1.21	73	55-115	12	30	mg/kg	06.20.13 20:17	
Fluorene	<0.0405	1.66	1.31	79	1.18	71	50-110	10	30	mg/kg	06.20.13 20:17	
Hexachlorobenzene	<0.0555	1.66	1.48	89	1.19	72	45-120	22	30	mg/kg	06.20.13 20:17	
Hexachlorobutadiene	<0.0369	1.66	1.15	69	1.02	61	40-115	12	30	mg/kg	06.20.13 20:17	
Hexachlorocyclopentadiene	<0.0571	1.66	1.09	66	0.903	54	65-135	19	30	mg/kg	06.20.13 20:17	X
Hexachloroethane	<0.0515	1.66	1.06	64	1.08	65	35-110	2	30	mg/kg	06.20.13 20:17	

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **SVOCs by SW-846 8270D** Prep Method: SW3550
Seq Number: 916744 Matrix: Soil Date Prep: 06.20.13
Parent Sample Id: 465343-001 MS Sample Id: 465343-001 S MSD Sample Id: 465343-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Indeno(1,2,3-c,d)Pyrene	<0.0604	1.66	1.24	75	1.13	68	40-120	9	30	mg/kg	06.20.13 20:17	
Isophorone	<0.0342	1.66	1.20	72	1.13	68	45-110	6	30	mg/kg	06.20.13 20:17	
Naphthalene	<0.0531	1.66	1.21	73	1.09	66	40-105	10	30	mg/kg	06.20.13 20:17	
Nitrobenzene	<0.0591	1.66	1.11	67	1.07	64	40-115	4	30	mg/kg	06.20.13 20:17	
N-Nitrosodi-n-Propylamine	<0.0475	1.66	1.23	74	1.22	73	40-115	1	30	mg/kg	06.20.13 20:17	
N-Nitrosodiphenylamine	<0.0697	1.66	1.37	83	1.21	73	50-115	12	30	mg/kg	06.20.13 20:17	
Pentachlorophenol	<0.0601	1.66	1.18	71	0.956	58	25-120	21	30	mg/kg	06.20.13 20:17	
Phenanthrene	<0.0551	1.66	1.33	80	1.18	71	50-110	12	30	mg/kg	06.20.13 20:17	
Phenol	<0.0465	1.66	1.07	64	1.02	61	40-100	5	30	mg/kg	06.20.13 20:17	
Pyrene	<0.0565	1.66	1.29	78	1.16	70	45-125	11	30	mg/kg	06.20.13 20:17	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
2-Fluorobiphenyl	69		62		20-112	%	06.20.13 20:17
2-Fluorophenol	62		60		18-101	%	06.20.13 20:17
Nitrobenzene-d5	61		60		13-112	%	06.20.13 20:17
Phenol-d5	63		61		15-110	%	06.20.13 20:17
Terphenyl-D14	72		69		21-138	%	06.20.13 20:17
2,4,6-Tribromophenol	88		67		21-128	%	06.20.13 20:17

Analytical Method: **MADEP VPH REV 1.1** Prep Method: SW5030B
Seq Number: 916782 Matrix: Water Date Prep: 06.20.13
MB Sample Id: 640027-1-BLK LCS Sample Id: 640027-1-BKS LCSD Sample Id: 640027-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C5-C8 Aliphatics (Unadj.)	<15.0	150	161	107	161	107	70-130	0	25	ug/L	06.20.13 11:35	
C9-C10 Aromatics (Unadj.)	<5.00	50.0	51.0	102	51.0	102	70-130	0	25	ug/L	06.20.13 11:35	
C9-C12 Aliphatics (Unadj.)	<15.0	150	152	101	152	101	70-130	0	25	ug/L	06.20.13 11:35	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
2,5-Dibromotoluene	100		123		130		70-130	%	06.20.13 11:35
2,5-Dibromotoluene (PID)	98		120		128		70-130	%	06.20.13 11:35

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **MADEP VPH REV 1.1** Prep Method: SW5030B
Seq Number: 916782 Matrix: Ground Water Date Prep: 06.20.13
Parent Sample Id: 465343-006 MS Sample Id: 465343-006 S MSD Sample Id: 465343-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C5-C8 Aliphatics (Unadj.)	<15.0	150	132	88	134	89	70-130	2	25	ug/L	06.20.13 17:10	
C9-C10 Aromatics (Unadj.)	<5.00	50.0	64.0	128	64.0	128	70-130	0	25	ug/L	06.20.13 17:10	
C9-C12 Aliphatics (Unadj.)	50.0	150	143	62	128	52	70-130	11	25	ug/L	06.20.13 17:10	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
2,5-Dibromotoluene	113		105		70-130	%	06.20.13 17:10
2,5-Dibromotoluene (PID)	108		103		70-130	%	06.20.13 17:10

Analytical Method: **MADEP VPH REV 1.1** Prep Method: SW5030B
Seq Number: 917180 Matrix: Solid Date Prep: 06.26.13
MB Sample Id: 640310-1-BLK LCS Sample Id: 640310-1-BKS LCSD Sample Id: 640310-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Unadjusted C5-C8 Aliphatics	<0.750	7.50	7.50	100	8.00	107	70-130	6	25	mg/kg	06.26.13 10:17	
Unadjusted C9-C12 Aliphatics	<0.750	7.50	8.00	107	7.50	100	70-130	6	25	mg/kg	06.26.13 10:17	
Unadjusted C9-C10 Aromatics	<0.250	2.50	2.50	100	2.50	100	70-130	0	25	mg/kg	06.26.13 10:17	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
2,5-Dibromotoluene	100		125		125		70-130	%	06.26.13 10:17
2,5-Dibromotoluene (PID)	125		125		125		70-130	%	06.26.13 10:17

Analytical Method: **MADEP VPH REV 1.1** Prep Method: SW5030B
Seq Number: 917180 Matrix: Soil Date Prep: 06.26.13
Parent Sample Id: 465343-002 MD Sample Id: 465343-002 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Unadjusted C5-C8 Aliphatics	<0.750	<0.750	0	25	mg/kg	06.26.13 13:14	U
Unadjusted C9-C12 Aliphatics	<0.750	<0.750	0	25	mg/kg	06.26.13 13:14	U
Unadjusted C9-C10 Aromatics	<0.250	<0.250	0	25	mg/kg	06.26.13 13:14	U

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **MADEP VPH REV 1.1** Prep Method: SW5030B

Seq Number: 917180 Matrix: Soil Date Prep: 06.26.13

Parent Sample Id: 465343-002 MS Sample Id: 465343-002 S MSD Sample Id: 465343-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Unadjusted C5-C8 Aliphatics	<0.750	7.50	7.00	93	7.50	100	70-130	7	25	mg/kg	06.26.13 13:59	
Unadjusted C9-C12 Aliphatics	<0.750	7.50	6.00	80	6.50	87	70-130	8	25	mg/kg	06.26.13 13:59	
Unadjusted C9-C10 Aromatics	<0.250	2.50	2.00	80	2.00	80	70-130	0	25	mg/kg	06.26.13 13:59	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
2,5-Dibromotoluene	75		100		70-130	%	06.26.13 13:59
2,5-Dibromotoluene (PID)	100		100		70-130	%	06.26.13 13:59

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **VOCs by GC/MS by SM6200B** Prep Method: SM6200B_PREP
Seq Number: 917159 Matrix: Water Date Prep: 06.26.13
MB Sample Id: 640292-1-BLK LCS Sample Id: 640292-1-BKS LCSD Sample Id: 640292-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.0760	25.0	24.2	97	24.6	98	82-129	2	20	ug/L	06.26.13 08:20	
1,1,2,2-Tetrachloroethane	<0.0700	25.0	24.0	96	24.5	98	73-129	2	20	ug/L	06.26.13 08:20	
1,1,2-Trichloroethane	<0.113	25.0	23.6	94	22.9	92	78-126	3	20	ug/L	06.26.13 08:20	
1,1-Dichloroethane	<0.121	25.0	23.4	94	24.5	98	76-131	5	20	ug/L	06.26.13 08:20	
1,1-Dichloroethene	<0.104	25.0	24.2	97	25.4	102	81-132	5	22	ug/L	06.26.13 08:20	
1,1-Dichloropropene	<0.0600	25.0	24.4	98	24.1	96	83-134	1	20	ug/L	06.26.13 08:20	
1,2,3-Trichlorobenzene	<0.118	25.0	25.0	100	24.7	99	69-148	1	20	ug/L	06.26.13 08:20	
1,2,3-Trichloropropane	<0.138	25.0	23.8	95	24.3	97	75-124	2	20	ug/L	06.26.13 08:20	
1,2,4-Trichlorobenzene	<0.0690	25.0	25.5	102	25.0	100	77-140	2	20	ug/L	06.26.13 08:20	
1,2,4-Trimethylbenzene	<0.103	25.0	24.4	98	24.7	99	85-123	1	20	ug/L	06.26.13 08:20	
1,2-Dibromoethane (EDB)	<0.180	25.0	25.0	100	24.8	99	80-130	1	20	ug/L	06.26.13 08:20	
1,2-Dichlorobenzene	<0.0940	25.0	23.9	96	23.6	94	87-122	1	20	ug/L	06.26.13 08:20	
1,2-Dichloroethane	<0.0900	25.0	23.7	95	23.8	95	70-127	0	20	ug/L	06.26.13 08:20	
1,2-Dichloropropane	<0.122	25.0	24.4	98	23.4	94	73-140	4	20	ug/L	06.26.13 08:20	
1,3,5-Trimethylbenzene	<0.0870	25.0	24.4	98	24.5	98	83-129	0	20	ug/L	06.26.13 08:20	
1,3-Dichlorobenzene	<0.0980	25.0	23.9	96	23.9	96	88-120	0	20	ug/L	06.26.13 08:20	
1,3-Dichloropropane	<0.133	25.0	24.2	97	24.0	96	77-127	1	20	ug/L	06.26.13 08:20	
1,4-Dichlorobenzene	<0.0670	25.0	23.4	94	23.7	95	86-116	1	20	ug/L	06.26.13 08:20	
2,2-Dichloropropane	<0.0970	25.0	25.4	102	28.1	112	86-141	10	20	ug/L	06.26.13 08:20	
2-Butanone (MEK)	<0.378	50.0	47.3	95	48.9	98	53-149	3	20	ug/L	06.26.13 08:20	
2-Chlorotoluene	<0.0880	25.0	23.5	94	23.9	96	84-126	2	20	ug/L	06.26.13 08:20	
2-Hexanone	<0.352	50.0	50.0	100	50.9	102	68-140	2	20	ug/L	06.26.13 08:20	
4-Chlorotoluene	<0.0900	25.0	24.0	96	24.3	97	85-125	1	20	ug/L	06.26.13 08:20	
4-Isopropyltoluene	<0.0890	25.0	24.9	100	25.0	100	83-132	0	20	ug/L	06.26.13 08:20	
4-Methyl-2-pentanone (MIBK)	<0.253	50.0	49.1	98	49.5	99	66-135	1	20	ug/L	06.26.13 08:20	
Acetone	<0.352	50.0	61.8	124	70.5	141	58-168	13	21	ug/L	06.26.13 08:20	
Benzene	<0.119	25.0	23.6	94	23.6	94	78-136	0	20	ug/L	06.26.13 08:20	
Bromobenzene	<0.132	25.0	23.6	94	24.2	97	80-121	3	20	ug/L	06.26.13 08:20	
Bromochloromethane	<0.112	25.0	23.0	92	24.8	99	81-127	8	20	ug/L	06.26.13 08:20	
Bromodichloromethane	<0.124	25.0	25.1	100	25.4	102	89-128	1	20	ug/L	06.26.13 08:20	
Bromoform	<0.159	25.0	25.8	103	26.1	104	74-114	1	20	ug/L	06.26.13 08:20	
Bromomethane	<0.0970	25.0	21.9	88	22.5	90	80-132	3	20	ug/L	06.26.13 08:20	
Carbon tetrachloride	<0.0990	25.0	21.9	88	24.9	100	78-140	13	20	ug/L	06.26.13 08:20	
Chlorobenzene	<0.105	25.0	23.4	94	24.3	97	86-118	4	20	ug/L	06.26.13 08:20	
Chlorodibromomethane	<0.177	25.0	26.2	105	26.7	107	82-131	2	20	ug/L	06.26.13 08:20	
Chloroethane	<0.0420	25.0	22.3	89	22.6	90	71-132	1	20	ug/L	06.26.13 08:20	
Chloroform	<0.172	25.0	23.1	92	23.7	95	79-126	3	20	ug/L	06.26.13 08:20	
Chloromethane	<0.0850	25.0	22.6	90	22.3	89	69-135	1	20	ug/L	06.26.13 08:20	
cis-1,2-Dichloroethene	<0.114	25.0	23.5	94	24.3	97	79-133	3	20	ug/L	06.26.13 08:20	
cis-1,3-Dichloropropene	<0.100	25.0	26.2	105	25.6	102	75-138	2	20	ug/L	06.26.13 08:20	
Dichlorodifluoromethane	<0.0670	25.0	25.0	100	25.6	102	57-142	2	20	ug/L	06.26.13 08:20	
Ethanol	<3.00	1000	917	92	923	92	70-130	1	20	ug/L	06.26.13 08:20	
Ethylbenzene	<0.0920	25.0	24.1	96	24.4	98	84-124	1	20	ug/L	06.26.13 08:20	
Isopropyl ether	<0.0920	25.0	23.5	94	24.2	97	61-146	3	20	ug/L	06.26.13 08:20	
Isopropylbenzene	<0.0980	25.0	24.4	98	24.5	98	84-131	0	20	ug/L	06.26.13 08:20	
Methyl tert-butyl ether (MTBE)	<0.169	50.0	47.0	94	49.2	98	55-145	5	20	ug/L	06.26.13 08:20	
Methylene Chloride	<0.190	25.0	27.9	112	30.5	122	74-131	9	20	ug/L	06.26.13 08:20	
Naphthalene	<0.0940	25.0	25.5	102	25.3	101	74-144	1	20	ug/L	06.26.13 08:20	
n-Butylbenzene	<0.0600	25.0	25.8	103	25.7	103	80-134	0	20	ug/L	06.26.13 08:20	
n-Propylbenzene	<0.0650	25.0	24.2	97	24.4	98	82-129	1	20	ug/L	06.26.13 08:20	
sec-Butylbenzene	<0.0920	25.0	24.4	98	24.3	97	80-131	0	20	ug/L	06.26.13 08:20	
Styrene	<0.0740	25.0	24.1	96	24.9	100	88-123	3	20	ug/L	06.26.13 08:20	

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **VOCs by GC/MS by SM6200B** Prep Method: SM6200B_PREP
Seq Number: 917159 Matrix: Water Date Prep: 06.26.13
MB Sample Id: 640292-1-BLK LCS Sample Id: 640292-1-BKS LCSD Sample Id: 640292-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
tert-Butylbenzene	<0.0890	25.0	24.3	97	24.5	98	83-134	1	20	ug/L	06.26.13 08:20	
Tetrachloroethene (PCE)	<0.0540	25.0	24.4	98	23.8	95	83-126	2	20	ug/L	06.26.13 08:20	
Toluene	<0.0570	25.0	24.4	98	24.1	96	87-121	1	20	ug/L	06.26.13 08:20	
trans-1,2-Dichloroethene	<0.188	25.0	24.2	97	25.2	101	81-135	4	20	ug/L	06.26.13 08:20	
trans-1,3-Dichloropropene	<0.110	25.0	26.0	104	25.8	103	75-117	1	20	ug/L	06.26.13 08:20	
Trichloroethene	<0.139	25.0	24.4	98	22.3	89	84-125	9	20	ug/L	06.26.13 08:20	
Trichlorofluoromethane	<0.0540	25.0	23.5	94	25.1	100	65-143	7	20	ug/L	06.26.13 08:20	
Vinyl Acetate	<0.720	25.0	24.6	98	24.8	99	47-154	1	20	ug/L	06.26.13 08:20	
Vinyl Chloride	<0.0810	25.0	23.5	94	24.0	96	75-132	2	20	ug/L	06.26.13 08:20	
m,p-Xylenes	<0.176	50.0	47.9	96	48.2	96	85-127	1	20	ug/L	06.26.13 08:20	
o-Xylene	<0.122	25.0	24.5	98	25.1	100	86-124	2	20	ug/L	06.26.13 08:20	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	110		95		102		53-159	%	06.26.13 08:20
4-Bromofluorobenzene	102		98		97		30-186	%	06.26.13 08:20
Toluene-D8	92		99		98		70-130	%	06.26.13 08:20

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: VOCs by GC/MS by SM6200B Prep Method: SM6200B_PREP

Seq Number: 917159 Matrix: Ground Water Date Prep: 06.26.13

Parent Sample Id: 465523-007 MD Sample Id: 465523-007 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.0760	<0.0760	0	20	ug/L	06.26.13 13:19	U
1,1,2,2-Tetrachloroethane	<0.0700	<0.0700	0	20	ug/L	06.26.13 13:19	U
1,1,2-Trichloroethane	<0.113	<0.113	0	20	ug/L	06.26.13 13:19	U
1,1-Dichloroethane	<0.121	<0.121	0	20	ug/L	06.26.13 13:19	U
1,1-Dichloroethene	<0.104	<0.104	0	22	ug/L	06.26.13 13:19	U
1,1-Dichloropropene	<0.0600	<0.0600	0	20	ug/L	06.26.13 13:19	U
1,2,3-Trichlorobenzene	<0.118	<0.118	0	20	ug/L	06.26.13 13:19	U
1,2,3-Trichloropropane	<0.138	<0.138	0	20	ug/L	06.26.13 13:19	U
1,2,4-Trichlorobenzene	<0.0690	<0.0690	0	20	ug/L	06.26.13 13:19	U
1,2,4-Trimethylbenzene	<0.103	<0.103	0	20	ug/L	06.26.13 13:19	U
1,2-Dibromoethane (EDB)	<0.180	<0.180	0	20	ug/L	06.26.13 13:19	U
1,2-Dichlorobenzene	<0.0940	<0.0940	0	20	ug/L	06.26.13 13:19	U
1,2-Dichloroethane	<0.0900	<0.0900	0	20	ug/L	06.26.13 13:19	U
1,2-Dichloropropane	<0.122	<0.122	0	20	ug/L	06.26.13 13:19	U
1,3,5-Trimethylbenzene	<0.0870	<0.0870	0	20	ug/L	06.26.13 13:19	U
1,3-Dichlorobenzene	<0.0980	<0.0980	0	20	ug/L	06.26.13 13:19	U
1,3-Dichloropropane	<0.133	<0.133	0	20	ug/L	06.26.13 13:19	U
1,4-Dichlorobenzene	<0.0670	<0.0670	0	20	ug/L	06.26.13 13:19	U
2,2-Dichloropropane	<0.0970	<0.0970	0	20	ug/L	06.26.13 13:19	U
2-Butanone (MEK)	<0.378	<0.378	0	20	ug/L	06.26.13 13:19	U
2-Chlorotoluene	<0.0880	<0.0880	0	20	ug/L	06.26.13 13:19	U
2-Hexanone	<0.352	<0.352	0	20	ug/L	06.26.13 13:19	U
4-Chlorotoluene	<0.0900	<0.0900	0	20	ug/L	06.26.13 13:19	U
4-Isopropyltoluene	<0.0890	<0.0890	0	20	ug/L	06.26.13 13:19	U
4-Methyl-2-pentanone (MIBK)	<0.253	<0.253	0	20	ug/L	06.26.13 13:19	U
Acetone	<0.352	<0.352	0	21	ug/L	06.26.13 13:19	U
Benzene	<0.119	<0.119	0	20	ug/L	06.26.13 13:19	U
Bromobenzene	<0.132	<0.132	0	20	ug/L	06.26.13 13:19	U
Bromochloromethane	<0.112	<0.112	0	20	ug/L	06.26.13 13:19	U
Bromodichloromethane	<0.124	<0.124	0	20	ug/L	06.26.13 13:19	U
Bromoform	<0.159	<0.159	0	20	ug/L	06.26.13 13:19	U
Bromomethane	<0.0970	<0.0970	0	20	ug/L	06.26.13 13:19	U
Carbon tetrachloride	<0.0990	<0.0990	0	20	ug/L	06.26.13 13:19	U
Chlorobenzene	<0.105	<0.105	0	20	ug/L	06.26.13 13:19	U
Chlorodibromomethane	<0.177	<0.177	0	20	ug/L	06.26.13 13:19	U
Chloroethane	<0.0420	<0.0420	0	20	ug/L	06.26.13 13:19	U
Chloroform	<0.172	<0.172	0	20	ug/L	06.26.13 13:19	U
Chloromethane	<0.0850	<0.0850	0	20	ug/L	06.26.13 13:19	U
cis-1,2-Dichloroethene	<0.114	<0.114	0	20	ug/L	06.26.13 13:19	U
cis-1,3-Dichloropropene	<0.100	<0.100	0	20	ug/L	06.26.13 13:19	U
Dichlorodifluoromethane	<0.0670	<0.0670	0	20	ug/L	06.26.13 13:19	U
Ethanol	<3.00	<3.00	0	20	ug/L	06.26.13 13:19	U
Ethylbenzene	<0.0920	<0.0920	0	20	ug/L	06.26.13 13:19	U
Isopropyl ether	1.38	1.27	8	20	ug/L	06.26.13 13:19	
Isopropylbenzene	<0.0980	<0.0980	0	20	ug/L	06.26.13 13:19	U
Methyl tert-butyl ether (MTBE)	8.81	8.75	1	20	ug/L	06.26.13 13:19	
Methylene Chloride	<0.190	<0.190	0	20	ug/L	06.26.13 13:19	U
Naphthalene	<0.0940	<0.0940	0	20	ug/L	06.26.13 13:19	U
n-Butylbenzene	<0.0600	<0.0600	0	20	ug/L	06.26.13 13:19	U
n-Propylbenzene	<0.0650	<0.0650	0	20	ug/L	06.26.13 13:19	U
sec-Butylbenzene	<0.0920	<0.0920	0	20	ug/L	06.26.13 13:19	U
Styrene	<0.0740	<0.0740	0	20	ug/L	06.26.13 13:19	U

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **VOCs by GC/MS by SM6200B** Prep Method: SM6200B_PREP

Seq Number: 917159 Matrix: Ground Water Date Prep: 06.26.13

Parent Sample Id: 465523-007 MD Sample Id: 465523-007 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
tert-Butylbenzene	<0.0890	<0.0890	0	20	ug/L	06.26.13 13:19	U
Tetrachloroethene (PCE)	<0.0540	<0.0540	0	20	ug/L	06.26.13 13:19	U
Toluene	<0.0570	<0.0570	0	20	ug/L	06.26.13 13:19	U
trans-1,2-Dichloroethene	<0.188	<0.188	0	20	ug/L	06.26.13 13:19	U
trans-1,3-Dichloropropene	<0.110	<0.110	0	20	ug/L	06.26.13 13:19	U
Trichloroethene	<0.139	<0.139	0	20	ug/L	06.26.13 13:19	U
Trichlorofluoromethane	<0.0540	<0.0540	0	20	ug/L	06.26.13 13:19	U
Vinyl Acetate	<0.720	<0.720	0	20	ug/L	06.26.13 13:19	U
Vinyl Chloride	<0.0810	<0.0810	0	20	ug/L	06.26.13 13:19	U
m,p-Xylenes	<0.176	<0.176	0	20	ug/L	06.26.13 13:19	U
o-Xylene	<0.122	<0.122	0	20	ug/L	06.26.13 13:19	U

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **VOCs by GC/MS by SM6200B** Prep Method: SM6200B_PREP
Seq Number: 917159 Matrix: Ground Water Date Prep: 06.26.13
Parent Sample Id: 465523-007 MS Sample Id: 465523-007 S MSD Sample Id: 465523-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.0760	25.0	25.1	100	24.8	99	71-131	1	20	ug/L	06.26.13 18:30	
1,1,2,2-Tetrachloroethane	<0.0700	25.0	23.5	94	23.7	95	65-131	1	20	ug/L	06.26.13 18:30	
1,1,2-Trichloroethane	<0.113	25.0	24.2	97	23.3	93	68-128	4	20	ug/L	06.26.13 18:30	
1,1-Dichloroethane	<0.121	25.0	23.7	95	23.3	93	72-130	2	20	ug/L	06.26.13 18:30	
1,1-Dichloroethene	<0.104	25.0	24.0	96	23.3	93	56-139	3	22	ug/L	06.26.13 18:30	
1,1-Dichloropropene	<0.0600	25.0	24.3	97	24.0	96	77-119	1	20	ug/L	06.26.13 18:30	
1,2,3-Trichlorobenzene	<0.118	25.0	22.9	92	24.5	98	62-131	7	20	ug/L	06.26.13 18:30	
1,2,3-Trichloropropane	<0.138	25.0	23.4	94	23.5	94	60-136	0	20	ug/L	06.26.13 18:30	
1,2,4-Trichlorobenzene	<0.0690	25.0	23.5	94	24.8	99	67-130	5	20	ug/L	06.26.13 18:30	
1,2,4-Trimethylbenzene	<0.103	25.0	24.2	97	24.4	98	70-127	1	20	ug/L	06.26.13 18:30	
1,2-Dibromoethane (EDB)	<0.180	25.0	24.1	96	24.5	98	75-127	2	20	ug/L	06.26.13 18:30	
1,2-Dichlorobenzene	<0.0940	25.0	23.0	92	23.3	93	78-116	1	20	ug/L	06.26.13 18:30	
1,2-Dichloroethane	<0.0900	25.0	24.7	99	24.8	99	55-145	0	20	ug/L	06.26.13 18:30	
1,2-Dichloropropane	<0.122	25.0	24.3	97	24.3	97	75-118	0	20	ug/L	06.26.13 18:30	
1,3,5-Trimethylbenzene	<0.0870	25.0	24.0	96	24.0	96	73-122	0	20	ug/L	06.26.13 18:30	
1,3-Dichlorobenzene	<0.0980	25.0	22.6	90	23.2	93	77-116	3	20	ug/L	06.26.13 18:30	
1,3-Dichloropropane	<0.133	25.0	24.8	99	24.8	99	71-128	0	20	ug/L	06.26.13 18:30	
1,4-Dichlorobenzene	<0.0670	25.0	22.7	91	22.7	91	79-112	0	20	ug/L	06.26.13 18:30	
2,2-Dichloropropane	<0.0970	25.0	24.3	97	22.6	90	62-138	7	20	ug/L	06.26.13 18:30	
2-Butanone (MEK)	<0.378	50.0	47.8	96	47.9	96	34-167	0	20	ug/L	06.26.13 18:30	
2-Chlorotoluene	<0.0880	25.0	23.2	93	23.5	94	71-121	1	20	ug/L	06.26.13 18:30	
2-Hexanone	<0.352	50.0	50.6	101	50.5	101	46-152	0	20	ug/L	06.26.13 18:30	
4-Chlorotoluene	<0.0900	25.0	23.9	96	23.9	96	72-120	0	20	ug/L	06.26.13 18:30	
4-Isopropyltoluene	<0.0890	25.0	24.3	97	24.6	98	75-123	1	20	ug/L	06.26.13 18:30	
4-Methyl-2-pentanone (MIBK)	<0.253	50.0	51.7	103	52.6	105	53-155	2	20	ug/L	06.26.13 18:30	
Acetone	<0.352	50.0	47.1	94	46.3	93	70-130	2	21	ug/L	06.26.13 18:30	
Benzene	<0.119	25.0	23.4	94	23.5	94	64-135	0	20	ug/L	06.26.13 18:30	
Bromobenzene	<0.132	25.0	23.7	95	23.5	94	68-122	1	20	ug/L	06.26.13 18:30	
Bromochloromethane	<0.112	25.0	23.6	94	23.2	93	71-136	2	20	ug/L	06.26.13 18:30	
Bromodichloromethane	<0.124	25.0	25.3	101	25.6	102	71-135	1	20	ug/L	06.26.13 18:30	
Bromoform	<0.159	25.0	24.9	100	25.3	101	75-124	2	20	ug/L	06.26.13 18:30	
Bromomethane	<0.0970	25.0	22.8	91	22.7	91	46-151	0	20	ug/L	06.26.13 18:30	
Carbon tetrachloride	<0.0990	25.0	24.8	99	22.7	91	72-131	9	20	ug/L	06.26.13 18:30	
Chlorobenzene	<0.105	25.0	23.4	94	23.3	93	83-113	0	20	ug/L	06.26.13 18:30	
Chlorodibromomethane	<0.177	25.0	26.1	104	26.4	106	75-135	1	20	ug/L	06.26.13 18:30	
Chloroethane	<0.0420	25.0	22.4	90	22.0	88	42-159	2	20	ug/L	06.26.13 18:30	
Chloroform	<0.172	25.0	23.9	96	23.8	95	72-126	0	20	ug/L	06.26.13 18:30	
Chloromethane	<0.0850	25.0	22.2	89	21.5	86	55-133	3	20	ug/L	06.26.13 18:30	
cis-1,2-Dichloroethene	<0.114	25.0	23.0	92	22.6	90	75-128	2	20	ug/L	06.26.13 18:30	
cis-1,3-Dichloropropene	<0.100	25.0	25.2	101	25.5	102	12-95	1	20	ug/L	06.26.13 18:30	X
Dichlorodifluoromethane	<0.0670	25.0	24.6	98	23.9	96	43-147	3	20	ug/L	06.26.13 18:30	
Ethanol	<3.00	1000	897	90	919	92	42-166	2	20	ug/L	06.26.13 18:30	
Ethylbenzene	<0.0920	25.0	24.3	97	24.5	98	79-120	1	20	ug/L	06.26.13 18:30	
Isopropyl ether	1.38	25.0	25.3	96	25.3	96	59-141	0	20	ug/L	06.26.13 18:30	
Isopropylbenzene	<0.0980	25.0	24.5	98	24.6	98	73-121	0	20	ug/L	06.26.13 18:30	
Methyl tert-butyl ether (MTBE)	8.81	50.0	56.6	96	54.9	92	24-173	3	20	ug/L	06.26.13 18:30	
Methylene Chloride	<0.190	25.0	24.8	99	24.9	100	51-144	0	20	ug/L	06.26.13 18:30	
Naphthalene	<0.0940	25.0	24.1	96	24.9	100	64-136	3	20	ug/L	06.26.13 18:30	
n-Butylbenzene	<0.0600	25.0	24.2	97	24.9	100	70-126	3	20	ug/L	06.26.13 18:30	
n-Propylbenzene	<0.0650	25.0	24.1	96	24.2	97	72-121	0	20	ug/L	06.26.13 18:30	
sec-Butylbenzene	<0.0920	25.0	23.6	94	23.7	95	75-119	0	20	ug/L	06.26.13 18:30	
Styrene	<0.0740	25.0	23.5	94	23.6	94	80-123	0	20	ug/L	06.26.13 18:30	

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **VOCs by GC/MS by SM6200B** Prep Method: SM6200B_PREP

Seq Number: 917159 Matrix: Ground Water Date Prep: 06.26.13

Parent Sample Id: 465523-007 MS Sample Id: 465523-007 S MSD Sample Id: 465523-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
tert-Butylbenzene	<0.0890	25.0	24.3	97	24.2	97	77-124	0	20	ug/L	06.26.13 18:30	
Tetrachloroethene (PCE)	<0.0540	25.0	23.8	95	24.3	97	72-118	2	20	ug/L	06.26.13 18:30	
Toluene	<0.0570	25.0	24.2	97	24.5	98	56-144	1	20	ug/L	06.26.13 18:30	
trans-1,2-Dichloroethene	<0.188	25.0	23.0	92	22.9	92	55-144	0	20	ug/L	06.26.13 18:30	
trans-1,3-Dichloropropene	<0.110	25.0	25.7	103	26.2	105	10-150	2	20	ug/L	06.26.13 18:30	
Trichloroethene	<0.139	25.0	24.2	97	24.0	96	72-116	1	20	ug/L	06.26.13 18:30	
Trichlorofluoromethane	<0.0540	25.0	24.6	98	24.3	97	48-152	1	20	ug/L	06.26.13 18:30	
Vinyl Acetate	<0.720	25.0	23.8	95	24.1	96	70-130	1	20	ug/L	06.26.13 18:30	
Vinyl Chloride	<0.0810	25.0	22.6	90	22.3	89	56-141	1	20	ug/L	06.26.13 18:30	
m,p-Xylenes	<0.176	50.0	46.6	93	47.7	95	80-119	2	20	ug/L	06.26.13 18:30	
o-Xylene	<0.122	25.0	23.4	94	23.5	94	77-125	0	20	ug/L	06.26.13 18:30	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	108		105		53-159	%	06.26.13 18:30
4-Bromofluorobenzene	101		101		30-186	%	06.26.13 18:30
Toluene-D8	101		102		70-130	%	06.26.13 18:30

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5035

Seq Number: 916748 Matrix: Solid Date Prep: 06.20.13

MB Sample Id: 640013-1-BLK LCS Sample Id: 640013-1-BKS LCSD Sample Id: 640013-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.00075	0.050	0.059	118	0.056	112	75-145	5	20	mg/kg	06.20.13 09:05	
1,1,2,2-Tetrachloroethane	<0.0012	0.050	0.049	98	0.044	88	78-120	11	20	mg/kg	06.20.13 09:05	
1,1,2-Trichloroethane	<0.00067	0.050	0.050	100	0.046	92	81-115	8	20	mg/kg	06.20.13 09:05	
1,1-Dichloroethane	<0.00080	0.050	0.052	104	0.054	108	73-131	4	20	mg/kg	06.20.13 09:05	
1,1-Dichloroethene	<0.0012	0.050	0.056	112	0.057	114	67-144	2	20	mg/kg	06.20.13 09:05	
1,1-Dichloropropene	<0.00054	0.050	0.058	116	0.055	110	83-141	5	20	mg/kg	06.20.13 09:05	
1,2,3-Trichlorobenzene	<0.00057	0.050	0.055	110	0.052	104	59-168	6	20	mg/kg	06.20.13 09:05	
1,2,3-Trichloropropane	<0.0016	0.050	0.053	106	0.050	100	73-129	6	20	mg/kg	06.20.13 09:05	
1,2,4-Trichlorobenzene	<0.00087	0.050	0.058	116	0.053	106	61-170	9	20	mg/kg	06.20.13 09:05	
1,2,4-Trimethylbenzene	<0.00072	0.050	0.055	110	0.052	104	73-145	6	20	mg/kg	06.20.13 09:05	
1,2-Dibromoethane (EDB)	<0.00086	0.050	0.056	112	0.047	94	81-121	17	20	mg/kg	06.20.13 09:05	
1,2-Dichlorobenzene	<0.0013	0.050	0.053	106	0.049	98	70-146	8	20	mg/kg	06.20.13 09:05	
1,2-Dichloroethane	<0.00060	0.050	0.055	110	0.052	104	63-150	6	20	mg/kg	06.20.13 09:05	
1,2-Dichloropropane	<0.00093	0.050	0.048	96	0.046	92	76-121	4	20	mg/kg	06.20.13 09:05	
1,3,5-Trimethylbenzene	<0.00081	0.050	0.058	116	0.054	108	69-152	7	20	mg/kg	06.20.13 09:05	
1,3-Dichlorobenzene	<0.0010	0.050	0.056	112	0.052	104	73-145	7	20	mg/kg	06.20.13 09:05	
1,3-Dichloropropane	<0.00069	0.050	0.058	116	0.052	104	82-117	11	20	mg/kg	06.20.13 09:05	
1,4-Dichlorobenzene	<0.00068	0.050	0.058	116	0.051	102	74-143	13	20	mg/kg	06.20.13 09:05	
2,2-Dichloropropane	<0.00060	0.050	0.060	120	0.058	116	67-153	3	20	mg/kg	06.20.13 09:05	
2-Butanone (MEK)	<0.0023	0.10	0.12	120	0.11	110	44-158	9	20	mg/kg	06.20.13 09:05	
2-Chlorotoluene	<0.00071	0.050	0.058	116	0.050	100	74-143	15	20	mg/kg	06.20.13 09:05	
2-Hexanone	<0.0011	0.10	0.10	100	0.11	110	59-154	10	20	mg/kg	06.20.13 09:05	
4-Chlorotoluene	<0.00055	0.050	0.056	112	0.052	104	76-140	7	20	mg/kg	06.20.13 09:05	
4-Isopropyltoluene	<0.00080	0.050	0.058	116	0.057	114	50-173	2	20	mg/kg	06.20.13 09:05	
4-Methyl-2-pentanone (MIBK)	<0.0032	0.10	0.11	110	0.11	110	65-132	0	20	mg/kg	06.20.13 09:05	
Acetone	<0.0069	0.10	0.11	110	0.10	100	43-163	10	20	mg/kg	06.20.13 09:05	
Benzene	<0.00051	0.050	0.053	106	0.049	98	82-121	8	20	mg/kg	06.20.13 09:05	
Bromobenzene	<0.00085	0.050	0.050	100	0.047	94	83-120	6	20	mg/kg	06.20.13 09:05	
Bromochloromethane	<0.0010	0.050	0.053	106	0.055	110	79-126	4	20	mg/kg	06.20.13 09:05	
Bromodichloromethane	<0.00050	0.050	0.056	112	0.052	104	80-135	7	20	mg/kg	06.20.13 09:05	
Bromoform	<0.00096	0.050	0.054	108	0.053	106	71-135	2	20	mg/kg	06.20.13 09:05	
Bromomethane	<0.0025	0.050	0.059	118	0.054	108	51-149	9	20	mg/kg	06.20.13 09:05	
Carbon tetrachloride	<0.00074	0.050	0.056	112	0.055	110	70-156	2	20	mg/kg	06.20.13 09:05	
Chlorobenzene	<0.00058	0.050	0.053	106	0.051	102	76-131	4	20	mg/kg	06.20.13 09:05	
Chlorodibromomethane	<0.00099	0.050	0.057	114	0.054	108	81-136	5	20	mg/kg	06.20.13 09:05	
Chloroethane	<0.0024	0.050	0.048	96	0.050	100	64-131	4	20	mg/kg	06.20.13 09:05	
Chloroform	<0.00074	0.050	0.059	118	0.050	100	78-125	17	20	mg/kg	06.20.13 09:05	
Chloromethane	<0.0023	0.050	0.051	102	0.051	102	59-127	0	20	mg/kg	06.20.13 09:05	
cis-1,2-Dichloroethene	<0.00066	0.050	0.048	96	0.052	104	80-123	8	20	mg/kg	06.20.13 09:05	
cis-1,3-Dichloropropene	<0.00054	0.050	0.059	118	0.053	106	81-123	11	20	mg/kg	06.20.13 09:05	
Dichlorodifluoromethane	<0.0012	0.050	0.046	92	0.052	104	33-161	12	20	mg/kg	06.20.13 09:05	
Ethanol	<0.028	2.0	2.0	100	1.9	95	56-147	5	20	mg/kg	06.20.13 09:05	
Ethylbenzene	<0.00057	0.050	0.059	118	0.054	108	84-129	9	20	mg/kg	06.20.13 09:05	
Isopropyl Ether	<0.0013	0.050	0.056	112	0.057	114	74-125	2	20	mg/kg	06.20.13 09:05	
Isopropylbenzene	<0.00076	0.050	0.054	108	0.051	102	65-153	6	20	mg/kg	06.20.13 09:05	
m,p-Xylenes	<0.00121	0.100	0.113	113	0.104	104	75-141	8	20	mg/kg	06.20.13 09:05	
Methyl tert-butyl ether	<0.00069	0.10	0.11	110	0.11	110	70-131	0	20	mg/kg	06.20.13 09:05	
Methylene chloride	<0.0022	0.050	0.067	134	0.068	136	65-137	1	20	mg/kg	06.20.13 09:05	
Naphthalene	<0.0013	0.050	0.059	118	0.056	112	68-151	5	20	mg/kg	06.20.13 09:05	
n-Butylbenzene	<0.00088	0.050	0.060	120	0.056	112	43-199	7	20	mg/kg	06.20.13 09:05	
n-Propylbenzene	<0.00078	0.050	0.055	110	0.050	100	60-161	10	20	mg/kg	06.20.13 09:05	
o-Xylene	<0.000716	0.0500	0.0584	117	0.0505	101	73-141	15	20	mg/kg	06.20.13 09:05	

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5035
Seq Number: 916748 Matrix: Solid Date Prep: 06.20.13
MB Sample Id: 640013-1-BLK LCS Sample Id: 640013-1-BKS LCSD Sample Id: 640013-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
sec-Butylbenzene	<0.00066	0.050	0.056	112	0.051	102	44-179	9	20	mg/kg	06.20.13 09:05	
Styrene	<0.00074	0.050	0.056	112	0.052	104	82-129	7	20	mg/kg	06.20.13 09:05	
tert-Butylbenzene	<0.00083	0.050	0.056	112	0.052	104	56-163	7	20	mg/kg	06.20.13 09:05	
Tetrachloroethene	<0.0010	0.050	0.055	110	0.049	98	78-144	12	20	mg/kg	06.20.13 09:05	
Toluene	<0.00059	0.050	0.054	108	0.049	98	86-121	10	20	mg/kg	06.20.13 09:05	
trans-1,2-Dichloroethene	<0.00078	0.050	0.055	110	0.050	100	72-132	10	20	mg/kg	06.20.13 09:05	
trans-1,3-Dichloropropene	<0.00067	0.050	0.059	118	0.052	104	82-132	13	20	mg/kg	06.20.13 09:05	
Trichloroethene	<0.00071	0.050	0.053	106	0.055	110	80-126	4	20	mg/kg	06.20.13 09:05	
Trichlorofluoromethane	<0.0035	0.050	0.059	118	0.057	114	55-155	3	20	mg/kg	06.20.13 09:05	
Vinyl acetate	<0.00072	0.050	0.056	112	0.048	96	57-146	15	20	mg/kg	06.20.13 09:05	
Vinyl chloride	<0.0020	0.050	0.051	102	0.043	86	70-130	17	20	mg/kg	06.20.13 09:05	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	98		110		102		50-150	%	06.20.13 09:05
4-Bromofluorobenzene	98		99		92		57-158	%	06.20.13 09:05
Toluene-D8	95		100		92		50-150	%	06.20.13 09:05

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B
Seq Number: 916874 Matrix: Water Date Prep: 06.22.13
MB Sample Id: 640106-1-BLK LCS Sample Id: 640106-1-BKS LCSD Sample Id: 640106-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.160	50.0	59.3	119	64.7	129	65-130	9	20	ug/L	06.22.13 09:24	
1,1,2,2-Tetrachloroethane	<0.180	50.0	46.8	94	41.7	83	65-130	12	20	ug/L	06.22.13 09:24	
1,1,2-Trichloroethane	<0.250	50.0	49.9	100	46.9	94	75-125	6	20	ug/L	06.22.13 09:24	
1,1-Dichloroethane	<0.110	50.0	49.0	98	49.1	98	70-135	0	20	ug/L	06.22.13 09:24	
1,1-Dichloroethene	<0.200	50.0	45.1	90	51.3	103	70-130	13	20	ug/L	06.22.13 09:24	
1,1-Dichloropropene	<0.100	50.0	57.3	115	56.1	112	75-130	2	20	ug/L	06.22.13 09:24	
1,2,3-Trichlorobenzene	<0.250	50.0	67.2	134	64.6	129	55-140	4	20	ug/L	06.22.13 09:24	
1,2,3-Trichloropropane	<0.210	50.0	54.4	109	45.5	91	75-125	18	20	ug/L	06.22.13 09:24	
1,2,4-Trichlorobenzene	<0.170	50.0	62.1	124	56.3	113	65-135	10	20	ug/L	06.22.13 09:24	
1,2,4-Trimethylbenzene	<0.140	50.0	57.7	115	49.9	100	75-130	14	20	ug/L	06.22.13 09:24	
1,2-Dibromoethane (EDB)	<0.180	50.0	56.0	112	50.8	102	80-120	10	20	ug/L	06.22.13 09:24	
1,2-Dichlorobenzene	<0.140	50.0	56.5	113	52.3	105	70-120	8	20	ug/L	06.22.13 09:24	
1,2-Dichloroethane	<0.180	50.0	62.1	124	62.0	124	70-130	0	20	ug/L	06.22.13 09:24	
1,2-Dichloropropane	<0.150	50.0	41.9	84	44.5	89	75-125	6	20	ug/L	06.22.13 09:24	
1,3,5-Trimethylbenzene	<0.170	50.0	58.5	117	51.7	103	75-130	12	20	ug/L	06.22.13 09:24	
1,3-Dichlorobenzene	<0.170	50.0	57.2	114	50.6	101	75-125	12	20	ug/L	06.22.13 09:24	
1,3-Dichloropropane	<0.190	50.0	49.7	99	49.1	98	75-125	1	20	ug/L	06.22.13 09:24	
1,4-Dichlorobenzene	<0.170	50.0	55.8	112	51.6	103	75-125	8	20	ug/L	06.22.13 09:24	
2,2-Dichloropropane	<0.210	50.0	64.6	129	63.2	126	70-130	2	20	ug/L	06.22.13 09:24	
2-Butanone (MEK)	<0.280	100	100	100	94.0	94	30-150	6	20	ug/L	06.22.13 09:24	
2-Chlorotoluene	<0.190	50.0	52.5	105	47.1	94	75-125	11	20	ug/L	06.22.13 09:24	
2-Hexanone	<0.320	100	99.4	99	96.0	96	55-130	3	20	ug/L	06.22.13 09:24	
4-Chlorotoluene	<0.130	50.0	54.3	109	48.7	97	75-130	11	20	ug/L	06.22.13 09:24	
4-Isopropyltoluene	<0.130	50.0	60.6	121	54.3	109	75-130	11	20	ug/L	06.22.13 09:24	
4-Methyl-2-pentanone (MIBK)	<0.260	100	96.3	96	95.5	96	60-135	1	20	ug/L	06.22.13 09:24	
Acetone	<0.350	100	106	106	102	102	40-140	4	20	ug/L	06.22.13 09:24	
Benzene	<0.160	50.0	50.5	101	50.2	100	80-120	1	20	ug/L	06.22.13 09:24	
Bromobenzene	<0.210	50.0	48.8	98	43.6	87	75-125	11	20	ug/L	06.22.13 09:24	
Bromochloromethane	<0.200	50.0	45.9	92	43.6	87	65-130	5	20	ug/L	06.22.13 09:24	
Bromodichloromethane	<0.250	50.0	56.7	113	58.8	118	75-120	4	20	ug/L	06.22.13 09:24	
Bromoform	<0.170	50.0	57.6	115	48.8	98	70-130	17	20	ug/L	06.22.13 09:24	
Bromomethane	<0.250	50.0	55.6	111	52.8	106	30-145	5	20	ug/L	06.22.13 09:24	
Carbon tetrachloride	<0.330	50.0	62.6	125	61.1	122	65-140	2	20	ug/L	06.22.13 09:24	
Chlorobenzene	<0.150	50.0	55.4	111	54.1	108	80-120	2	20	ug/L	06.22.13 09:24	
Chlorodibromomethane	<0.150	50.0	62.6	125	60.2	120	60-135	4	20	ug/L	06.22.13 09:24	
Chloroethane	<0.260	50.0	46.4	93	49.3	99	60-135	6	20	ug/L	06.22.13 09:24	
Chloroform	<0.160	50.0	59.3	119	57.7	115	65-135	3	20	ug/L	06.22.13 09:24	
Chloromethane	<0.250	50.0	48.3	97	48.4	97	40-125	0	20	ug/L	06.22.13 09:24	
cis-1,2-Dichloroethene	<0.210	50.0	53.0	106	45.6	91	70-125	15	20	ug/L	06.22.13 09:24	
cis-1,3-Dichloropropene	<0.100	50.0	52.6	105	51.0	102	70-130	3	20	ug/L	06.22.13 09:24	
Dichlorodifluoromethane	<0.220	50.0	61.2	122	60.7	121	30-155	1	20	ug/L	06.22.13 09:24	
Ethanol	<8.00	2000	1800	90	1800	90	65-135	0	20	ug/L	06.22.13 09:24	
Ethylbenzene	<0.190	50.0	56.5	113	56.5	113	75-125	0	20	ug/L	06.22.13 09:24	
Isopropyl ether	<0.0800	50.0	47.6	95	46.6	93	65-135	2	20	ug/L	06.22.13 09:24	
Isopropylbenzene	<0.150	50.0	54.6	109	50.3	101	75-125	8	20	ug/L	06.22.13 09:24	
m,p-Xylenes	<0.510	100	109	109	107	107	75-130	2	20	ug/L	06.22.13 09:24	
Methyl tert-butyl ether	<0.180	100	119	119	117	117	65-125	2	20	ug/L	06.22.13 09:24	
Methylene chloride	<0.420	50.0	59.8	120	59.8	120	55-140	0	20	ug/L	06.22.13 09:24	
Naphthalene	<0.220	50.0	64.6	129	55.3	111	55-140	16	20	ug/L	06.22.13 09:24	
n-Butylbenzene	<0.170	50.0	56.1	112	50.2	100	70-130	11	20	ug/L	06.22.13 09:24	
n-Propylbenzene	<0.180	50.0	52.2	104	48.6	97	70-130	7	20	ug/L	06.22.13 09:24	
o-Xylene	<0.200	50.0	50.7	101	53.7	107	80-120	6	20	ug/L	06.22.13 09:24	

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services

Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B
Seq Number: 916874 Matrix: Water Date Prep: 06.22.13
MB Sample Id: 640106-1-BLK LCS Sample Id: 640106-1-BKS LCSD Sample Id: 640106-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
sec-Butylbenzene	<0.210	50.0	54.0	108	49.0	98	70-125	10	20	ug/L	06.22.13 09:24	
Styrene	<0.180	50.0	56.6	113	55.0	110	65-135	3	20	ug/L	06.22.13 09:24	
tert-Butylbenzene	<0.180	50.0	58.8	118	54.8	110	70-130	7	20	ug/L	06.22.13 09:24	
Tetrachloroethene	<0.160	50.0	58.8	118	59.6	119	45-150	1	20	ug/L	06.22.13 09:24	
Toluene	<0.140	50.0	51.1	102	52.6	105	75-120	3	20	ug/L	06.22.13 09:24	
trans-1,2-Dichloroethene	<0.210	50.0	54.9	110	49.4	99	60-140	11	20	ug/L	06.22.13 09:24	
trans-1,3-Dichloropropene	<0.110	50.0	59.6	119	55.9	112	55-140	6	20	ug/L	06.22.13 09:24	
Trichloroethene	<0.190	50.0	51.9	104	58.8	118	70-125	12	20	ug/L	06.22.13 09:24	
Trichlorofluoromethane	<0.530	50.0	63.4	127	58.8	118	60-145	8	20	ug/L	06.22.13 09:24	
Vinyl acetate	<0.720	50.0	55.2	110	52.9	106	65-135	4	20	ug/L	06.22.13 09:24	
Vinyl chloride	<0.190	50.0	50.1	100	47.0	94	50-145	6	20	ug/L	06.22.13 09:24	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	116		123		118		53-159	%	06.22.13 09:24
4-Bromofluorobenzene	107		101		93		30-186	%	06.22.13 09:24
Toluene-D8	94		95		98		70-130	%	06.22.13 09:24

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B
Seq Number: 917027 Matrix: Water Date Prep: 06.25.13
MB Sample Id: 640192-1-BLK LCS Sample Id: 640192-1-BKS LCSD Sample Id: 640192-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.160	50.0	54.8	110	53.8	108	65-130	2	20	ug/L	06.25.13 07:29	
1,1,2,2-Tetrachloroethane	<0.180	50.0	44.7	89	44.1	88	65-130	1	20	ug/L	06.25.13 07:29	
1,1,2-Trichloroethane	<0.250	50.0	46.7	93	46.2	92	75-125	1	20	ug/L	06.25.13 07:29	
1,1-Dichloroethane	<0.110	50.0	48.2	96	47.6	95	70-135	1	20	ug/L	06.25.13 07:29	
1,1-Dichloroethene	<0.200	50.0	52.6	105	51.4	103	70-130	2	20	ug/L	06.25.13 07:29	
1,1-Dichloropropene	<0.100	50.0	51.6	103	50.8	102	75-130	2	20	ug/L	06.25.13 07:29	
1,2,3-Trichlorobenzene	<0.250	50.0	52.3	105	51.6	103	55-140	1	20	ug/L	06.25.13 07:29	
1,2,3-Trichloropropane	<0.210	50.0	47.0	94	45.7	91	75-125	3	20	ug/L	06.25.13 07:29	
1,2,4-Trichlorobenzene	<0.170	50.0	52.2	104	51.4	103	65-135	2	20	ug/L	06.25.13 07:29	
1,2,4-Trimethylbenzene	<0.140	50.0	49.7	99	48.4	97	75-130	3	20	ug/L	06.25.13 07:29	
1,2-Dibromoethane (EDB)	<0.180	50.0	51.1	102	48.8	98	80-120	5	20	ug/L	06.25.13 07:29	
1,2-Dichlorobenzene	<0.140	50.0	52.8	106	51.6	103	70-120	2	20	ug/L	06.25.13 07:29	
1,2-Dichloroethane	<0.180	50.0	47.5	95	47.3	95	70-130	0	20	ug/L	06.25.13 07:29	
1,2-Dichloropropane	<0.150	50.0	46.5	93	46.1	92	75-125	1	20	ug/L	06.25.13 07:29	
1,3,5-Trimethylbenzene	<0.170	50.0	49.9	100	48.5	97	75-130	3	20	ug/L	06.25.13 07:29	
1,3-Dichlorobenzene	<0.170	50.0	52.1	104	50.9	102	75-125	2	20	ug/L	06.25.13 07:29	
1,3-Dichloropropane	<0.190	50.0	47.0	94	46.0	92	75-125	2	20	ug/L	06.25.13 07:29	
1,4-Dichlorobenzene	<0.170	50.0	52.6	105	51.0	102	75-125	3	20	ug/L	06.25.13 07:29	
2,2-Dichloropropane	<0.210	50.0	56.8	114	56.0	112	70-130	1	20	ug/L	06.25.13 07:29	
2-Butanone (MEK)	<0.280	100	81.6	82	81.5	82	30-150	0	20	ug/L	06.25.13 07:29	
2-Chlorotoluene	<0.190	50.0	48.4	97	47.2	94	75-125	3	20	ug/L	06.25.13 07:29	
2-Hexanone	<0.320	100	84.6	85	82.2	82	55-130	3	20	ug/L	06.25.13 07:29	
4-Chlorotoluene	<0.130	50.0	52.2	104	50.8	102	75-130	3	20	ug/L	06.25.13 07:29	
4-Isopropyltoluene	<0.130	50.0	48.8	98	47.8	96	75-130	2	20	ug/L	06.25.13 07:29	
4-Methyl-2-pentanone (MIBK)	<0.260	100	87.9	88	87.3	87	60-135	1	20	ug/L	06.25.13 07:29	
Acetone	<0.350	100	72.0	72	75.7	76	40-140	5	20	ug/L	06.25.13 07:29	
Benzene	<0.160	50.0	47.7	95	47.6	95	80-120	0	20	ug/L	06.25.13 07:29	
Bromobenzene	<0.210	50.0	48.0	96	46.8	94	75-125	3	20	ug/L	06.25.13 07:29	
Bromochloromethane	<0.200	50.0	53.1	106	51.8	104	65-130	2	20	ug/L	06.25.13 07:29	
Bromodichloromethane	<0.250	50.0	49.2	98	49.2	98	75-120	0	20	ug/L	06.25.13 07:29	
Bromoform	<0.170	50.0	51.3	103	50.4	101	70-130	2	20	ug/L	06.25.13 07:29	
Bromomethane	<0.250	50.0	51.2	102	53.2	106	30-145	4	20	ug/L	06.25.13 07:29	
Carbon tetrachloride	<0.330	50.0	56.4	113	55.1	110	65-140	2	20	ug/L	06.25.13 07:29	
Chlorobenzene	<0.150	50.0	53.8	108	52.3	105	80-120	3	20	ug/L	06.25.13 07:29	
Chlorodibromomethane	<0.150	50.0	51.4	103	50.4	101	60-135	2	20	ug/L	06.25.13 07:29	
Chloroethane	<0.260	50.0	44.3	89	48.4	97	60-135	9	20	ug/L	06.25.13 07:29	
Chloroform	<0.160	50.0	49.5	99	49.4	99	65-135	0	20	ug/L	06.25.13 07:29	
Chloromethane	<0.250	50.0	45.4	91	45.1	90	40-125	1	20	ug/L	06.25.13 07:29	
cis-1,2-Dichloroethene	<0.210	50.0	51.3	103	50.6	101	70-125	1	20	ug/L	06.25.13 07:29	
cis-1,3-Dichloropropene	<0.100	50.0	50.2	100	50.1	100	70-130	0	20	ug/L	06.25.13 07:29	
Dichlorodifluoromethane	<0.220	50.0	68.9	138	69.0	138	30-155	0	20	ug/L	06.25.13 07:29	
Ethanol	<8.00	2000	1650	83	1660	83	65-135	1	20	ug/L	06.25.13 07:29	
Ethylbenzene	<0.190	50.0	50.7	101	48.7	97	75-125	4	20	ug/L	06.25.13 07:29	
Isopropyl ether	<0.0800	50.0	46.6	93	45.8	92	65-135	2	20	ug/L	06.25.13 07:29	
Isopropylbenzene	<0.150	50.0	48.6	97	47.7	95	75-125	2	20	ug/L	06.25.13 07:29	
m,p-Xylenes	<0.510	100	106	106	103	103	75-130	3	20	ug/L	06.25.13 07:29	
Methyl tert-butyl ether	<0.180	100	97.6	98	97.0	97	65-125	1	20	ug/L	06.25.13 07:29	
Methylene chloride	<0.420	50.0	49.9	100	50.4	101	55-140	1	20	ug/L	06.25.13 07:29	
Naphthalene	<0.220	50.0	50.9	102	50.2	100	55-140	1	20	ug/L	06.25.13 07:29	
n-Butylbenzene	<0.170	50.0	48.0	96	46.9	94	70-130	2	20	ug/L	06.25.13 07:29	
n-Propylbenzene	<0.180	50.0	46.8	94	45.5	91	70-130	3	20	ug/L	06.25.13 07:29	
o-Xylene	<0.200	50.0	54.6	109	53.1	106	80-120	3	20	ug/L	06.25.13 07:29	

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services

Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B
Seq Number: 917027 Matrix: Water Date Prep: 06.25.13
MB Sample Id: 640192-1-BLK LCS Sample Id: 640192-1-BKS LCSD Sample Id: 640192-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
sec-Butylbenzene	<0.210	50.0	48.3	97	46.7	93	70-125	3	20	ug/L	06.25.13 07:29	
Styrene	<0.180	50.0	54.5	109	53.3	107	65-135	2	20	ug/L	06.25.13 07:29	
tert-Butylbenzene	<0.180	50.0	48.4	97	47.0	94	70-130	3	20	ug/L	06.25.13 07:29	
Tetrachloroethene	<0.160	50.0	55.1	110	53.3	107	45-150	3	20	ug/L	06.25.13 07:29	
Toluene	<0.140	50.0	49.4	99	47.9	96	75-120	3	20	ug/L	06.25.13 07:29	
trans-1,2-Dichloroethene	<0.210	50.0	52.1	104	51.1	102	60-140	2	20	ug/L	06.25.13 07:29	
trans-1,3-Dichloropropene	<0.110	50.0	47.5	95	46.1	92	55-140	3	20	ug/L	06.25.13 07:29	
Trichloroethene	<0.190	50.0	52.8	106	51.5	103	70-125	2	20	ug/L	06.25.13 07:29	
Trichlorofluoromethane	<0.530	50.0	58.9	118	58.6	117	60-145	1	20	ug/L	06.25.13 07:29	
Vinyl acetate	<0.720	50.0	45.1	90	44.5	89	65-135	1	20	ug/L	06.25.13 07:29	
Vinyl chloride	<0.190	50.0	47.9	96	48.5	97	50-145	1	20	ug/L	06.25.13 07:29	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	94		94		94		53-159	%	06.25.13 07:29
4-Bromofluorobenzene	96		94		94		30-186	%	06.25.13 07:29
Toluene-D8	100		96		96		70-130	%	06.25.13 07:29

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5035
Seq Number: 916748 Matrix: Soil Date Prep: 06.20.13
Parent Sample Id: 465133-006 MS Sample Id: 465133-006 S MSD Sample Id: 465133-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.00095	0.063	0.068	108	0.068	108	62-137	0	20	mg/kg	06.20.13 15:49	
1,1,2,2-Tetrachloroethane	<0.0015	0.063	0.059	94	0.053	84	64-128	11	20	mg/kg	06.20.13 15:49	
1,1,2-Trichloroethane	<0.00085	0.063	0.057	90	0.055	87	61-130	4	20	mg/kg	06.20.13 15:49	
1,1-Dichloroethane	<0.0010	0.063	0.064	102	0.059	94	65-136	8	20	mg/kg	06.20.13 15:49	
1,1-Dichloroethene	<0.0015	0.063	0.058	92	0.065	103	33-158	11	20	mg/kg	06.20.13 15:49	
1,1-Dichloropropene	<0.00068	0.063	0.068	108	0.069	110	42-152	1	20	mg/kg	06.20.13 15:49	
1,2,3-Trichlorobenzene	<0.00072	0.063	0.063	100	0.058	92	48-135	8	20	mg/kg	06.20.13 15:49	
1,2,3-Trichloropropane	<0.0021	0.063	0.065	103	0.055	87	58-134	17	20	mg/kg	06.20.13 15:49	
1,2,4-Trichlorobenzene	<0.0011	0.063	0.065	103	0.059	94	43-139	10	20	mg/kg	06.20.13 15:49	
1,2,4-Trimethylbenzene	<0.00091	0.063	0.067	106	0.062	98	66-134	8	20	mg/kg	06.20.13 15:49	
1,2-Dibromoethane (EDB)	<0.0011	0.063	0.065	103	0.061	97	69-132	6	20	mg/kg	06.20.13 15:49	
1,2-Dichlorobenzene	<0.0016	0.063	0.065	103	0.059	94	71-120	10	20	mg/kg	06.20.13 15:49	
1,2-Dichloroethane	<0.00075	0.063	0.063	100	0.068	108	53-140	8	20	mg/kg	06.20.13 15:49	
1,2-Dichloropropane	<0.0012	0.063	0.054	86	0.049	78	68-126	10	20	mg/kg	06.20.13 15:49	
1,3,5-Trimethylbenzene	<0.0010	0.063	0.070	111	0.065	103	67-134	7	20	mg/kg	06.20.13 15:49	
1,3-Dichlorobenzene	<0.0013	0.063	0.069	110	0.060	95	68-127	14	20	mg/kg	06.20.13 15:49	
1,3-Dichloropropane	<0.00087	0.063	0.061	97	0.056	89	70-129	9	20	mg/kg	06.20.13 15:49	
1,4-Dichlorobenzene	<0.00086	0.063	0.071	113	0.063	100	72-118	12	20	mg/kg	06.20.13 15:49	
2,2-Dichloropropane	<0.00076	0.063	0.079	125	0.072	114	68-151	9	20	mg/kg	06.20.13 15:49	
2-Butanone (MEK)	<0.0029	0.13	0.14	108	0.12	92	42-147	15	20	mg/kg	06.20.13 15:49	
2-Chlorotoluene	<0.00089	0.063	0.069	110	0.062	98	68-127	11	20	mg/kg	06.20.13 15:49	
2-Hexanone	<0.0014	0.13	0.12	92	0.14	108	32-142	15	20	mg/kg	06.20.13 15:49	
4-Chlorotoluene	<0.00070	0.063	0.069	110	0.062	98	68-127	11	20	mg/kg	06.20.13 15:49	
4-Isopropyltoluene	<0.0010	0.063	0.075	119	0.070	111	64-135	7	20	mg/kg	06.20.13 15:49	
4-Methyl-2-pentanone (MIBK)	<0.0041	0.13	0.13	100	0.13	100	34-149	0	20	mg/kg	06.20.13 15:49	
Acetone	<0.0087	0.13	0.10	77	0.099	76	43-163	1	20	mg/kg	06.20.13 15:49	
Benzene	<0.00065	0.063	0.056	89	0.058	92	65-135	4	20	mg/kg	06.20.13 15:49	
Bromobenzene	<0.0011	0.063	0.060	95	0.056	89	67-121	7	20	mg/kg	06.20.13 15:49	
Bromochloromethane	<0.0013	0.063	0.072	114	0.061	97	66-137	17	20	mg/kg	06.20.13 15:49	
Bromodichloromethane	<0.00063	0.063	0.062	98	0.061	97	60-129	2	20	mg/kg	06.20.13 15:49	
Bromoform	<0.0012	0.063	0.069	110	0.061	97	48-147	12	20	mg/kg	06.20.13 15:49	
Bromomethane	<0.0031	0.063	0.062	98	0.059	94	42-170	5	20	mg/kg	06.20.13 15:49	
Carbon tetrachloride	<0.00094	0.063	0.072	114	0.061	97	54-148	17	20	mg/kg	06.20.13 15:49	
Chlorobenzene	<0.00073	0.063	0.065	103	0.061	97	71-117	6	20	mg/kg	06.20.13 15:49	
Chlorodibromomethane	<0.0013	0.063	0.064	102	0.063	100	59-135	2	20	mg/kg	06.20.13 15:49	
Chloroethane	<0.0031	0.063	0.064	102	0.057	90	44-166	12	20	mg/kg	06.20.13 15:49	
Chloroform	0.0020	0.063	0.059	90	0.063	97	62-127	7	20	mg/kg	06.20.13 15:49	
Chloromethane	<0.0029	0.063	0.055	87	0.049	78	34-157	12	20	mg/kg	06.20.13 15:49	
cis-1,2-Dichloroethene	<0.00084	0.063	0.053	84	0.052	83	41-155	2	20	mg/kg	06.20.13 15:49	
cis-1,3-Dichloropropene	<0.00068	0.063	0.064	102	0.060	95	63-128	6	20	mg/kg	06.20.13 15:49	
Dichlorodifluoromethane	<0.0015	0.063	0.072	114	0.060	95	16-171	18	20	mg/kg	06.20.13 15:49	
Ethanol	<0.035	2.5	2.2	88	2.1	84	23-148	5	20	mg/kg	06.20.13 15:49	
Ethylbenzene	<0.00071	0.063	0.068	108	0.067	106	65-139	1	20	mg/kg	06.20.13 15:49	
Isopropyl Ether	<0.0016	0.063	0.068	108	0.060	95	57-138	13	20	mg/kg	06.20.13 15:49	
Isopropylbenzene	<0.00096	0.063	0.068	108	0.061	97	62-133	11	20	mg/kg	06.20.13 15:49	
m,p-Xylenes	<0.00153	0.126	0.130	103	0.131	104	69-130	1	20	mg/kg	06.20.13 15:49	
Methyl tert-butyl ether	<0.00087	0.13	0.13	100	0.12	92	48-169	8	20	mg/kg	06.20.13 15:49	
Methylene chloride	0.025	0.063	0.089	102	0.083	92	17-184	7	20	mg/kg	06.20.13 15:49	
Naphthalene	0.0020	0.063	0.055	84	0.060	92	27-157	9	20	mg/kg	06.20.13 15:49	
n-Butylbenzene	<0.0011	0.063	0.075	119	0.069	110	59-136	8	20	mg/kg	06.20.13 15:49	
n-Propylbenzene	<0.00099	0.063	0.065	103	0.061	97	67-134	6	20	mg/kg	06.20.13 15:49	
o-Xylene	<0.000904	0.0631	0.0609	97	0.0637	101	71-124	4	20	mg/kg	06.20.13 15:49	

QC Summary 465343

Mill Creek Environmental Services

Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5035

Seq Number: 916748 Matrix: Soil Date Prep: 06.20.13

Parent Sample Id: 465133-006 MS Sample Id: 465133-006 S MSD Sample Id: 465133-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
sec-Butylbenzene	<0.00083	0.063	0.068	108	0.063	100	65-131	8	20	mg/kg	06.20.13 15:49	
Styrene	<0.00094	0.063	0.065	103	0.063	100	50-143	3	20	mg/kg	06.20.13 15:49	
tert-Butylbenzene	<0.0011	0.063	0.067	106	0.063	100	67-131	6	20	mg/kg	06.20.13 15:49	
Tetrachloroethene	<0.0013	0.063	0.066	105	0.066	105	42-156	0	20	mg/kg	06.20.13 15:49	
Toluene	<0.00074	0.063	0.060	95	0.058	92	65-128	3	20	mg/kg	06.20.13 15:49	
trans-1,2-Dichloroethene	<0.00098	0.063	0.067	106	0.059	94	57-143	13	20	mg/kg	06.20.13 15:49	
trans-1,3-Dichloropropene	<0.00085	0.063	0.066	105	0.063	100	55-141	5	20	mg/kg	06.20.13 15:49	
Trichloroethene	<0.00089	0.063	0.057	90	0.056	89	39-150	2	20	mg/kg	06.20.13 15:49	
Trichlorofluoromethane	<0.0044	0.063	0.064	102	0.064	102	34-179	0	20	mg/kg	06.20.13 15:49	
Vinyl acetate	<0.00091	0.063	0.028	44	0.024	38	13-188	15	20	mg/kg	06.20.13 15:49	X
Vinyl chloride	<0.0025	0.063	0.060	95	0.049	78	40-161	20	20	mg/kg	06.20.13 15:49	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	105		113		50-150	%	06.20.13 15:49
4-Bromofluorobenzene	99		96		57-158	%	06.20.13 15:49
Toluene-D8	96		96		50-150	%	06.20.13 15:49

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B
Seq Number: 916874 Matrix: Ground Water Date Prep: 06.22.13
Parent Sample Id: 465177-007 MS Sample Id: 465177-007 S MSD Sample Id: 465177-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.160	50.0	63.6	127	58.1	116	59-138	9	20	ug/L	06.22.13 19:19	
1,1,2,2-Tetrachloroethane	<0.180	50.0	43.9	88	39.8	80	63-126	10	20	ug/L	06.22.13 19:19	
1,1,2-Trichloroethane	<0.250	50.0	46.7	93	41.0	82	72-115	13	20	ug/L	06.22.13 19:19	
1,1-Dichloroethane	<0.110	50.0	47.9	96	46.4	93	69-132	3	20	ug/L	06.22.13 19:19	
1,1-Dichloroethene	<0.200	50.0	44.1	88	44.8	90	62-131	2	20	ug/L	06.22.13 19:19	
1,1-Dichloropropene	<0.100	50.0	52.7	105	44.7	89	74-123	16	20	ug/L	06.22.13 19:19	
1,2,3-Trichlorobenzene	<0.250	50.0	57.8	116	60.4	121	48-122	4	20	ug/L	06.22.13 19:19	
1,2,3-Trichloropropane	<0.210	50.0	48.7	97	47.9	96	59-119	2	20	ug/L	06.22.13 19:19	
1,2,4-Trichlorobenzene	<0.170	50.0	55.5	111	55.9	112	34-131	1	20	ug/L	06.22.13 19:19	
1,2,4-Trimethylbenzene	<0.140	50.0	50.7	101	48.5	97	47-139	4	20	ug/L	06.22.13 19:19	
1,2-Dibromoethane (EDB)	<0.180	50.0	55.9	112	50.9	102	66-125	9	20	ug/L	06.22.13 19:19	
1,2-Dichlorobenzene	<0.140	50.0	52.5	105	51.1	102	58-124	3	20	ug/L	06.22.13 19:19	
1,2-Dichloroethane	<0.180	50.0	66.9	134	60.1	120	55-141	11	20	ug/L	06.22.13 19:19	
1,2-Dichloropropane	<0.150	50.0	42.9	86	40.2	80	78-121	6	20	ug/L	06.22.13 19:19	
1,3,5-Trimethylbenzene	<0.170	50.0	51.1	102	49.1	98	53-129	4	20	ug/L	06.22.13 19:19	
1,3-Dichlorobenzene	<0.170	50.0	51.4	103	47.2	94	62-120	9	20	ug/L	06.22.13 19:19	
1,3-Dichloropropane	<0.190	50.0	49.6	99	47.4	95	66-123	5	20	ug/L	06.22.13 19:19	
1,4-Dichlorobenzene	<0.170	50.0	52.2	104	48.5	97	64-114	7	20	ug/L	06.22.13 19:19	
2,2-Dichloropropane	<0.210	50.0	58.7	117	54.1	108	40-159	8	20	ug/L	06.22.13 19:19	
2-Butanone (MEK)	<0.280	100	89.8	90	92.2	92	50-152	3	20	ug/L	06.22.13 19:19	
2-Chlorotoluene	<0.190	50.0	48.6	97	44.2	88	60-129	9	20	ug/L	06.22.13 19:19	
2-Hexanone	<0.320	100	102	102	98.7	99	55-136	3	20	ug/L	06.22.13 19:19	
4-Chlorotoluene	<0.130	50.0	48.6	97	44.4	89	64-124	9	20	ug/L	06.22.13 19:19	
4-Isopropyltoluene	<0.130	50.0	53.2	106	47.8	96	62-121	11	20	ug/L	06.22.13 19:19	
4-Methyl-2-pentanone (MIBK)	<0.260	100	101	101	93.5	94	65-132	8	20	ug/L	06.22.13 19:19	
Acetone	<0.350	100	82.7	83	85.7	86	40-140	4	20	ug/L	06.22.13 19:19	
Benzene	<0.160	50.0	47.5	95	41.9	84	77-118	13	20	ug/L	06.22.13 19:19	
Bromobenzene	<0.210	50.0	44.4	89	42.1	84	66-121	5	20	ug/L	06.22.13 19:19	
Bromochloromethane	<0.200	50.0	52.6	105	55.9	112	64-130	6	20	ug/L	06.22.13 19:19	
Bromodichloromethane	<0.250	50.0	56.6	113	52.8	106	68-125	7	20	ug/L	06.22.13 19:19	
Bromoform	<0.170	50.0	51.8	104	53.5	107	53-112	3	20	ug/L	06.22.13 19:19	
Bromomethane	<0.250	50.0	55.6	111	47.8	96	63-137	15	20	ug/L	06.22.13 19:19	
Carbon tetrachloride	<0.330	50.0	62.7	125	62.4	125	56-138	0	20	ug/L	06.22.13 19:19	
Chlorobenzene	<0.150	50.0	56.4	113	49.7	99	71-114	13	20	ug/L	06.22.13 19:19	
Chlorodibromomethane	<0.150	50.0	60.9	122	56.8	114	53-125	7	20	ug/L	06.22.13 19:19	
Chloroethane	<0.260	50.0	48.1	96	42.9	86	60-137	11	20	ug/L	06.22.13 19:19	
Chloroform	<0.160	50.0	59.7	119	49.4	99	65-131	19	20	ug/L	06.22.13 19:19	
Chloromethane	<0.250	50.0	42.9	86	41.7	83	48-151	3	20	ug/L	06.22.13 19:19	
cis-1,2-Dichloroethene	<0.210	50.0	47.7	95	48.5	97	22-185	2	20	ug/L	06.22.13 19:19	
cis-1,3-Dichloropropene	<0.100	50.0	49.6	99	45.0	90	67-113	10	20	ug/L	06.22.13 19:19	
Dichlorodifluoromethane	<0.220	50.0	62.5	125	59.5	119	38-145	5	20	ug/L	06.22.13 19:19	
Ethanol	<8.00	2000	2060	103	2110	106	38-162	2	20	ug/L	06.22.13 19:19	
Ethylbenzene	<0.190	50.0	54.6	109	50.5	101	66-127	8	20	ug/L	06.22.13 19:19	
Isopropyl ether	<0.0800	50.0	46.9	94	44.4	89	59-148	5	20	ug/L	06.22.13 19:19	
Isopropylbenzene	<0.150	50.0	50.4	101	45.8	92	58-127	10	20	ug/L	06.22.13 19:19	
m,p-Xylenes	<0.510	100	106	106	94.3	94	65-126	12	20	ug/L	06.22.13 19:19	
Methyl tert-butyl ether	<0.180	100	119	119	121	121	58-141	2	20	ug/L	06.22.13 19:19	
Methylene chloride	<0.420	50.0	54.0	108	50.3	101	63-150	7	20	ug/L	06.22.13 19:19	
Naphthalene	<0.220	50.0	53.0	106	56.2	112	30-148	6	20	ug/L	06.22.13 19:19	
n-Butylbenzene	<0.170	50.0	46.9	94	43.6	87	63-122	7	20	ug/L	06.22.13 19:19	
n-Propylbenzene	<0.180	50.0	47.3	95	44.7	89	64-127	6	20	ug/L	06.22.13 19:19	
o-Xylene	<0.200	50.0	49.9	100	48.7	97	64-123	2	20	ug/L	06.22.13 19:19	

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B
Seq Number: 916874 Matrix: Ground Water Date Prep: 06.22.13
Parent Sample Id: 465177-007 MS Sample Id: 465177-007 S MSD Sample Id: 465177-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
sec-Butylbenzene	<0.210	50.0	48.3	97	45.3	91	59-124	6	20	ug/L	06.22.13 19:19	
Styrene	<0.180	50.0	54.1	108	48.5	97	50-133	11	20	ug/L	06.22.13 19:19	
tert-Butylbenzene	<0.180	50.0	52.0	104	50.3	101	58-125	3	20	ug/L	06.22.13 19:19	
Tetrachloroethene	<0.160	50.0	61.6	123	50.3	101	52-125	20	20	ug/L	06.22.13 19:19	
Toluene	<0.140	50.0	50.5	101	46.8	94	65-123	8	20	ug/L	06.22.13 19:19	
trans-1,2-Dichloroethene	<0.210	50.0	54.4	109	51.9	104	65-135	5	20	ug/L	06.22.13 19:19	
trans-1,3-Dichloropropene	<0.110	50.0	54.3	109	52.3	105	50-125	4	20	ug/L	06.22.13 19:19	
Trichloroethene	<0.190	50.0	45.6	91	41.2	82	65-125	10	20	ug/L	06.22.13 19:19	
Trichlorofluoromethane	<0.530	50.0	62.6	125	63.3	127	51-145	1	20	ug/L	06.22.13 19:19	
Vinyl acetate	<0.720	50.0	39.5	79	41.1	82	49-135	4	20	ug/L	06.22.13 19:19	
Vinyl chloride	<0.190	50.0	48.2	96	44.2	88	52-140	9	20	ug/L	06.22.13 19:19	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	127		116		53-159	%	06.22.13 19:19
4-Bromofluorobenzene	93		93		30-186	%	06.22.13 19:19
Toluene-D8	96		95		70-130	%	06.22.13 19:19

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B
Seq Number: 917027 Matrix: Water Date Prep: 06.25.13
Parent Sample Id: 465355-001 MS Sample Id: 465355-001 S MSD Sample Id: 465355-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.160	50.0	54.6	109	52.9	106	59-138	3	20	ug/L	06.25.13 14:39	
1,1,2,2-Tetrachloroethane	<0.180	50.0	44.7	89	45.3	91	63-126	1	20	ug/L	06.25.13 14:39	
1,1,2-Trichloroethane	<0.250	50.0	46.7	93	46.1	92	72-115	1	20	ug/L	06.25.13 14:39	
1,1-Dichloroethane	<0.110	50.0	48.4	97	46.4	93	69-132	4	20	ug/L	06.25.13 14:39	
1,1-Dichloroethene	<0.200	50.0	52.3	105	49.3	99	62-131	6	20	ug/L	06.25.13 14:39	
1,1-Dichloropropene	<0.100	50.0	51.1	102	48.3	97	74-123	6	20	ug/L	06.25.13 14:39	
1,2,3-Trichlorobenzene	<0.250	50.0	46.7	93	49.1	98	48-122	5	20	ug/L	06.25.13 14:39	
1,2,3-Trichloropropane	<0.210	50.0	47.1	94	44.3	89	59-119	6	20	ug/L	06.25.13 14:39	
1,2,4-Trichlorobenzene	<0.170	50.0	47.5	95	49.4	99	34-131	4	20	ug/L	06.25.13 14:39	
1,2,4-Trimethylbenzene	<0.140	50.0	42.0	84	40.6	81	47-139	3	20	ug/L	06.25.13 14:39	
1,2-Dibromoethane (EDB)	<0.180	50.0	50.6	101	50.4	101	66-125	0	20	ug/L	06.25.13 14:39	
1,2-Dichlorobenzene	<0.140	50.0	51.6	103	51.5	103	58-124	0	20	ug/L	06.25.13 14:39	
1,2-Dichloroethane	<0.180	50.0	47.4	95	47.4	95	55-141	0	20	ug/L	06.25.13 14:39	
1,2-Dichloropropane	<0.150	50.0	46.8	94	46.1	92	78-121	2	20	ug/L	06.25.13 14:39	
1,3,5-Trimethylbenzene	<0.170	50.0	42.2	84	40.7	81	53-129	4	20	ug/L	06.25.13 14:39	
1,3-Dichlorobenzene	<0.170	50.0	50.9	102	49.7	99	62-120	2	20	ug/L	06.25.13 14:39	
1,3-Dichloropropane	<0.190	50.0	47.1	94	46.7	93	66-123	1	20	ug/L	06.25.13 14:39	
1,4-Dichlorobenzene	<0.170	50.0	50.8	102	50.5	101	64-114	1	20	ug/L	06.25.13 14:39	
2,2-Dichloropropane	<0.210	50.0	56.1	112	53.9	108	40-159	4	20	ug/L	06.25.13 14:39	
2-Butanone (MEK)	<0.280	100	88.5	89	85.6	86	50-152	3	20	ug/L	06.25.13 14:39	
2-Chlorotoluene	<0.190	50.0	47.6	95	46.8	94	60-129	2	20	ug/L	06.25.13 14:39	
2-Hexanone	<0.320	100	83.8	84	85.1	85	55-136	2	20	ug/L	06.25.13 14:39	
4-Chlorotoluene	<0.130	50.0	50.5	101	49.9	100	64-124	1	20	ug/L	06.25.13 14:39	
4-Isopropyltoluene	<0.130	50.0	44.9	90	44.7	89	62-121	0	20	ug/L	06.25.13 14:39	
4-Methyl-2-pentanone (MIBK)	<0.260	100	88.9	89	89.1	89	65-132	0	20	ug/L	06.25.13 14:39	
Acetone	<0.350	100	78.8	79	82.7	83	40-140	5	20	ug/L	06.25.13 14:39	
Benzene	<0.160	50.0	48.3	97	46.4	93	77-118	4	20	ug/L	06.25.13 14:39	
Bromobenzene	<0.210	50.0	47.6	95	46.9	94	66-121	1	20	ug/L	06.25.13 14:39	
Bromochloromethane	<0.200	50.0	53.4	107	51.7	103	64-130	3	20	ug/L	06.25.13 14:39	
Bromodichloromethane	<0.250	50.0	48.3	97	48.2	96	68-125	0	20	ug/L	06.25.13 14:39	
Bromoform	<0.170	50.0	47.6	95	48.1	96	53-112	1	20	ug/L	06.25.13 14:39	
Bromomethane	<0.250	50.0	53.4	107	50.2	100	63-137	6	20	ug/L	06.25.13 14:39	
Carbon tetrachloride	<0.330	50.0	54.5	109	51.0	102	56-138	7	20	ug/L	06.25.13 14:39	
Chlorobenzene	<0.150	50.0	53.6	107	52.1	104	71-114	3	20	ug/L	06.25.13 14:39	
Chlorodibromomethane	<0.150	50.0	49.3	99	49.1	98	53-125	0	20	ug/L	06.25.13 14:39	
Chloroethane	<0.260	50.0	48.2	96	43.7	87	60-137	10	20	ug/L	06.25.13 14:39	
Chloroform	<0.160	50.0	51.5	103	50.0	100	65-131	3	20	ug/L	06.25.13 14:39	
Chloromethane	<0.250	50.0	49.2	98	44.4	89	48-151	10	20	ug/L	06.25.13 14:39	
cis-1,2-Dichloroethene	<0.210	50.0	52.2	104	49.8	100	22-185	5	20	ug/L	06.25.13 14:39	
cis-1,3-Dichloropropene	<0.100	50.0	48.2	96	46.5	93	67-113	4	20	ug/L	06.25.13 14:39	
Dichlorodifluoromethane	<0.220	50.0	67.0	134	63.0	126	38-145	6	20	ug/L	06.25.13 14:39	
Ethanol	<8.00	2000	1730	87	1680	84	38-162	3	20	ug/L	06.25.13 14:39	
Ethylbenzene	<0.190	50.0	48.9	98	47.4	95	66-127	3	20	ug/L	06.25.13 14:39	
Isopropyl ether	<0.0800	50.0	47.3	95	45.9	92	59-148	3	20	ug/L	06.25.13 14:39	
Isopropylbenzene	<0.150	50.0	47.3	95	46.2	92	58-127	2	20	ug/L	06.25.13 14:39	
m,p-Xylenes	<0.510	100	99.1	99	96.7	97	65-126	2	20	ug/L	06.25.13 14:39	
Methyl tert-butyl ether	<0.180	100	99.5	100	98.8	99	58-141	1	20	ug/L	06.25.13 14:39	
Methylene chloride	<0.420	50.0	48.2	96	47.2	94	63-150	2	20	ug/L	06.25.13 14:39	
Naphthalene	<0.220	50.0	46.4	93	49.2	98	30-148	6	20	ug/L	06.25.13 14:39	
n-Butylbenzene	<0.170	50.0	44.3	89	44.2	88	63-122	0	20	ug/L	06.25.13 14:39	
n-Propylbenzene	<0.180	50.0	44.9	90	44.0	88	64-127	2	20	ug/L	06.25.13 14:39	
o-Xylene	<0.200	50.0	51.4	103	49.6	99	64-123	4	20	ug/L	06.25.13 14:39	

QC Summary 465343

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B
Seq Number: 917027 Matrix: Water Date Prep: 06.25.13
Parent Sample Id: 465355-001 MS Sample Id: 465355-001 S MSD Sample Id: 465355-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
sec-Butylbenzene	<0.210	50.0	45.2	90	45.1	90	59-124	0	20	ug/L	06.25.13 14:39	
Styrene	<0.180	50.0	41.9	84	39.7	79	50-133	5	20	ug/L	06.25.13 14:39	
tert-Butylbenzene	<0.180	50.0	46.5	93	46.0	92	58-125	1	20	ug/L	06.25.13 14:39	
Tetrachloroethene	<0.160	50.0	54.1	108	52.3	105	52-125	3	20	ug/L	06.25.13 14:39	
Toluene	<0.140	50.0	48.2	96	46.7	93	65-123	3	20	ug/L	06.25.13 14:39	
trans-1,2-Dichloroethene	<0.210	50.0	52.1	104	49.9	100	65-135	4	20	ug/L	06.25.13 14:39	
trans-1,3-Dichloropropene	<0.110	50.0	44.3	89	43.3	87	50-125	2	20	ug/L	06.25.13 14:39	
Trichloroethene	<0.190	50.0	52.1	104	50.5	101	65-125	3	20	ug/L	06.25.13 14:39	
Trichlorofluoromethane	<0.530	50.0	59.1	118	57.1	114	51-145	3	20	ug/L	06.25.13 14:39	
Vinyl acetate	<0.720	50.0	41.0	82	40.7	81	49-135	1	20	ug/L	06.25.13 14:39	
Vinyl chloride	<0.190	50.0	51.1	102	46.4	93	52-140	10	20	ug/L	06.25.13 14:39	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	94		94		53-159	%	06.25.13 14:39
4-Bromofluorobenzene	94		96		30-186	%	06.25.13 14:39
Toluene-D8	94		96		70-130	%	06.25.13 14:39

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **639971-1-BLK** Matrix: SOLID

Lab Sample Id: **639971-1-BLK**

Analytical Method: **Select Metals by SW-846 6010C** Prep Method: SW3050B

Tech: 4150

Analyst: 4150 Date Prep: 06.20.13 10:40

Seq Number: 916732

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	U	5.00	0.0600	mg/kg	06.20.13 16:37	U	1
Lead	7439-92-1	U	5.00	0.279	mg/kg	06.20.13 16:37	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **639993-1-BLK** Matrix: SOLID

Lab Sample Id: **639993-1-BLK**

Analytical Method: **SVOCs by SW-846 8270D** Prep Method: SW3550

Tech: BRO

Analyst: NTR Date Prep: 06.20.13 13:38

Seq Number: 916744

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2,4-Trichlorobenzene	120-82-1	U	0.333	0.0590	mg/kg	06.20.13 17:55	U	1
1,2-Dichlorobenzene	95-50-1	U	0.333	0.0540	mg/kg	06.20.13 17:55	U	1
1,2-Diphenylhydrazine	122-66-7	U	0.333	0.0367	mg/kg	06.20.13 17:55	U	1
1,3-Dichlorobenzene	541-73-1	U	0.333	0.0527	mg/kg	06.20.13 17:55	U	1
1,4-Dichlorobenzene	106-46-7	U	0.333	0.0520	mg/kg	06.20.13 17:55	U	1
2,4,6-Trichlorophenol	88-06-2	U	0.333	0.0643	mg/kg	06.20.13 17:55	U	1
2,4-Dichlorophenol	120-83-2	U	0.333	0.0423	mg/kg	06.20.13 17:55	U	1
2,4-Dimethylphenol	105-67-9	U	0.333	0.0607	mg/kg	06.20.13 17:55	U	1
2,4-Dinitrophenol	51-28-5	U	0.333	0.0537	mg/kg	06.20.13 17:55	U	1
2,4-Dinitrotoluene	121-14-2	U	0.333	0.0537	mg/kg	06.20.13 17:55	U	1
2,6-Dinitrotoluene	606-20-2	U	0.333	0.0433	mg/kg	06.20.13 17:55	U	1
2-Chloronaphthalene	91-58-7	U	0.333	0.0607	mg/kg	06.20.13 17:55	U	1
2-Chlorophenol	95-57-8	U	0.333	0.0597	mg/kg	06.20.13 17:55	U	1
2-Methylnaphthalene	91-57-6	U	0.333	0.0510	mg/kg	06.20.13 17:55	U	1
2-methylphenol	95-48-7	U	0.333	0.0467	mg/kg	06.20.13 17:55	U	1
2-Nitrophenol	88-75-5	U	0.333	0.0420	mg/kg	06.20.13 17:55	U	1
3&4-Methylphenol	15831-10-4	U	0.333	0.0987	mg/kg	06.20.13 17:55	U	1
3,3-Dichlorobenzidine	91-94-1	U	0.333	0.0487	mg/kg	06.20.13 17:55	U	1
4,6-dinitro-2-methyl phenol	534-52-1	U	0.333	0.0580	mg/kg	06.20.13 17:55	U	1
4-Bromophenyl-phenylether	101-55-3	U	0.333	0.0567	mg/kg	06.20.13 17:55	U	1
4-chloro-3-methylphenol	59-50-7	U	0.333	0.0477	mg/kg	06.20.13 17:55	U	1
4-Chloroaniline	106-47-8	U	0.333	0.0553	mg/kg	06.20.13 17:55	U	1
4-Chlorophenyl Phenyl Ether	7005-72-3	U	0.333	0.0633	mg/kg	06.20.13 17:55	U	1
4-Nitrophenol	100-02-7	U	0.333	0.0410	mg/kg	06.20.13 17:55	U	1
Acenaphthene	83-32-9	U	0.333	0.0467	mg/kg	06.20.13 17:55	U	1
Acenaphthylene	208-96-8	U	0.333	0.0567	mg/kg	06.20.13 17:55	U	1
Anthracene	120-12-7	U	0.333	0.0493	mg/kg	06.20.13 17:55	U	1
Benzo(a)anthracene	56-55-3	U	0.333	0.0540	mg/kg	06.20.13 17:55	U	1
Benzo(a)pyrene	50-32-8	U	0.333	0.0490	mg/kg	06.20.13 17:55	U	1
Benzo(b)fluoranthene	205-99-2	U	0.333	0.0543	mg/kg	06.20.13 17:55	U	1
Benzo(g,h,i)perylene	191-24-2	U	0.333	0.0550	mg/kg	06.20.13 17:55	U	1
Benzo(k)fluoranthene	207-08-9	U	0.333	0.0573	mg/kg	06.20.13 17:55	U	1
Benzoic Acid	65-85-0	U	0.333	0.0527	mg/kg	06.20.13 17:55	U	1
Benzyl Alcohol	100-51-6	U	0.333	0.0533	mg/kg	06.20.13 17:55	U	1
bis(2-chloroethoxy) methane	111-91-1	U	0.333	0.0400	mg/kg	06.20.13 17:55	U	1
bis(2-chloroethyl) ether	111-44-4	U	0.333	0.0473	mg/kg	06.20.13 17:55	U	1
bis(2-chloroisopropyl) ether	39638-32-9	U	0.333	0.0450	mg/kg	06.20.13 17:55	U	1
bis(2-ethylhexyl) phthalate	117-81-7	U	0.333	0.0540	mg/kg	06.20.13 17:55	U	1
Butylbenzylphthalate	85-68-7	U	0.333	0.0500	mg/kg	06.20.13 17:55	U	1
Chrysene	218-01-9	U	0.333	0.0443	mg/kg	06.20.13 17:55	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **639993-1-BLK** Matrix: SOLID

Lab Sample Id: **639993-1-BLK**

Analytical Method: **SVOCs by SW-846 8270D** Prep Method: SW3550

Tech: BRO

Analyst: NTR Date Prep: 06.20.13 13:38

Seq Number: 916744

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Dibenz(a,h)Anthracene	53-70-3	U	0.333	0.0647	mg/kg	06.20.13 17:55	U	1
Dibenzofuran	132-64-9	U	0.333	0.0427	mg/kg	06.20.13 17:55	U	1
Diethyl Phthalate	84-66-2	U	0.333	0.0537	mg/kg	06.20.13 17:55	U	1
Dimethyl Phthalate	131-11-3	U	0.333	0.0503	mg/kg	06.20.13 17:55	U	1
di-n-Butyl Phthalate	84-74-2	U	0.333	0.0613	mg/kg	06.20.13 17:55	U	1
di-n-Octyl Phthalate	117-84-0	U	0.333	0.0553	mg/kg	06.20.13 17:55	U	1
Fluoranthene	206-44-0	U	0.333	0.0433	mg/kg	06.20.13 17:55	U	1
Fluorene	86-73-7	U	0.333	0.0407	mg/kg	06.20.13 17:55	U	1
Hexachlorobenzene	118-74-1	U	0.333	0.0557	mg/kg	06.20.13 17:55	U	1
Hexachlorobutadiene	87-68-3	U	0.333	0.0370	mg/kg	06.20.13 17:55	U	1
Hexachlorocyclopentadiene	77-47-4	U	0.333	0.0573	mg/kg	06.20.13 17:55	U	1
Hexachloroethane	67-72-1	U	0.333	0.0517	mg/kg	06.20.13 17:55	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	U	0.333	0.0607	mg/kg	06.20.13 17:55	U	1
Isophorone	78-59-1	U	0.333	0.0343	mg/kg	06.20.13 17:55	U	1
Naphthalene	91-20-3	U	0.333	0.0533	mg/kg	06.20.13 17:55	U	1
Nitrobenzene	98-95-3	U	0.333	0.0593	mg/kg	06.20.13 17:55	U	1
N-Nitrosodi-n-Propylamine	621-64-7	U	0.333	0.0477	mg/kg	06.20.13 17:55	U	1
N-Nitrosodiphenylamine	86-30-6	U	0.333	0.0700	mg/kg	06.20.13 17:55	U	1
Pentachlorophenol	87-86-5	U	0.333	0.0603	mg/kg	06.20.13 17:55	U	1
Phenanthrene	85-01-8	U	0.333	0.0553	mg/kg	06.20.13 17:55	U	1
Phenol	108-95-2	U	0.333	0.0467	mg/kg	06.20.13 17:55	U	1
Pyrene	129-00-0	U	0.333	0.0567	mg/kg	06.20.13 17:55	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **639999-1-BLK** Matrix: SOLID

Lab Sample Id: **639999-1-BLK**

Analytical Method: **EPH by MADEP Method** Prep Method: SW3550

Tech: BRO

Analyst: NTR Date Prep: 06.20.13 12:40

Seq Number: 917187

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Unadjusted C11-C22 Aromatics	C11C22	U	6.67	6.67	mg/kg	06.26.13 00:25	U	1
Unadjusted C9-C18 Aliphatics	ALHYDRC9C1	U	3.33	3.33	mg/kg	06.26.13 09:15	U	1
Unadjusted C19-C36 Aliphatics	ALHYDRC19C	U	3.33	3.33	mg/kg	06.26.13 09:15	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640013-1-BLK** Matrix: SOLID

Lab Sample Id: **640013-1-BLK**

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5035

Tech: BAT

Analyst: MLA Date Prep: 06.20.13 07:45

Seq Number: 916748

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	0.0010	0.00075	mg/kg	06.20.13 10:54	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.0020	0.0012	mg/kg	06.20.13 10:54	U	1
1,1,2-Trichloroethane	79-00-5	U	0.0010	0.00067	mg/kg	06.20.13 10:54	U	1
1,1-Dichloroethane	75-34-3	U	0.0010	0.00080	mg/kg	06.20.13 10:54	U	1
1,1-Dichloroethene	75-35-4	U	0.0020	0.0012	mg/kg	06.20.13 10:54	U	1
1,1-Dichloropropene	563-58-6	U	0.0010	0.00054	mg/kg	06.20.13 10:54	U	1
1,2,3-Trichlorobenzene	87-61-6	U	0.0010	0.00057	mg/kg	06.20.13 10:54	U	1
1,2,3-Trichloropropane	96-18-4	U	0.0020	0.0016	mg/kg	06.20.13 10:54	U	1
1,2,4-Trichlorobenzene	120-82-1	U	0.0010	0.00087	mg/kg	06.20.13 10:54	U	1
1,2,4-Trimethylbenzene	95-63-6	U	0.0010	0.00072	mg/kg	06.20.13 10:54	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	0.0010	0.00086	mg/kg	06.20.13 10:54	U	1
1,2-Dichlorobenzene	95-50-1	U	0.0020	0.0013	mg/kg	06.20.13 10:54	U	1
1,2-Dichloroethane	107-06-2	U	0.0010	0.00060	mg/kg	06.20.13 10:54	U	1
1,2-Dichloropropane	78-87-5	U	0.0010	0.00093	mg/kg	06.20.13 10:54	U	1
1,3,5-Trimethylbenzene	108-67-8	U	0.0010	0.00081	mg/kg	06.20.13 10:54	U	1
1,3-Dichlorobenzene	541-73-1	U	0.0010	0.00100	mg/kg	06.20.13 10:54	U	1
1,3-Dichloropropane	142-28-9	U	0.0010	0.00069	mg/kg	06.20.13 10:54	U	1
1,4-Dichlorobenzene	106-46-7	U	0.0010	0.00068	mg/kg	06.20.13 10:54	U	1
2,2-Dichloropropane	594-20-7	U	0.0010	0.00060	mg/kg	06.20.13 10:54	U	1
2-Butanone (MEK)	78-93-3	U	0.010	0.0023	mg/kg	06.20.13 10:54	U	1
2-Chlorotoluene	95-49-8	U	0.0010	0.00071	mg/kg	06.20.13 10:54	U	1
2-Hexanone	591-78-6	U	0.010	0.0011	mg/kg	06.20.13 10:54	U	1
4-Chlorotoluene	106-43-4	U	0.0010	0.00055	mg/kg	06.20.13 10:54	U	1
4-Isopropyltoluene	99-87-6	U	0.0010	0.00080	mg/kg	06.20.13 10:54	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	0.010	0.0032	mg/kg	06.20.13 10:54	U	1
Acetone	67-64-1	U	0.010	0.0069	mg/kg	06.20.13 10:54	U	1
Benzene	71-43-2	U	0.0010	0.00051	mg/kg	06.20.13 10:54	U	1
Bromobenzene	108-86-1	U	0.0010	0.00085	mg/kg	06.20.13 10:54	U	1
Bromochloromethane	74-97-5	U	0.0020	0.0010	mg/kg	06.20.13 10:54	U	1
Bromodichloromethane	75-27-4	U	0.0010	0.00050	mg/kg	06.20.13 10:54	U	1
Bromoform	75-25-2	U	0.0010	0.00096	mg/kg	06.20.13 10:54	U	1
Bromomethane	74-83-9	U	0.0050	0.0025	mg/kg	06.20.13 10:54	U	1
Carbon tetrachloride	56-23-5	U	0.0010	0.00074	mg/kg	06.20.13 10:54	U	1
Chlorobenzene	108-90-7	U	0.0010	0.00058	mg/kg	06.20.13 10:54	U	1
Chlorodibromomethane	124-48-1	U	0.0010	0.00099	mg/kg	06.20.13 10:54	U	1
Chloroethane	75-00-3	U	0.0050	0.0024	mg/kg	06.20.13 10:54	U	1
Chloroform	67-66-3	U	0.0010	0.00074	mg/kg	06.20.13 10:54	U	1
Chloromethane	74-87-3	U	0.0050	0.0023	mg/kg	06.20.13 10:54	U	1
cis-1,2-Dichloroethene	156-59-2	U	0.0010	0.00066	mg/kg	06.20.13 10:54	U	1
cis-1,3-Dichloropropene	10061-01-5	U	0.0010	0.00054	mg/kg	06.20.13 10:54	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640013-1-BLK** Matrix: SOLID

Lab Sample Id: **640013-1-BLK**

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5035

Tech: BAT

Analyst: MLA Date Prep: 06.20.13 07:45

Seq Number: 916748

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Dichlorodifluoromethane	75-71-8	U	0.0020	0.0012	mg/kg	06.20.13 10:54	U	1
Ethanol	64-17-5	U	0.050	0.028	mg/kg	06.20.13 10:54	U	1
Ethylbenzene	100-41-4	U	0.0010	0.00057	mg/kg	06.20.13 10:54	U	1
Isopropyl Ether	108-20-3	U	0.0020	0.0013	mg/kg	06.20.13 10:54	U	1
Isopropylbenzene	98-82-8	U	0.0010	0.00076	mg/kg	06.20.13 10:54	U	1
m,p-Xylenes	179601-23-1	U	0.00200	0.00121	mg/kg	06.20.13 10:54	U	1
Methyl tert-butyl ether	1634-04-4	U	0.0020	0.00069	mg/kg	06.20.13 10:54	U	1
Methylene chloride	75-09-2	U	0.0050	0.0022	mg/kg	06.20.13 10:54	U	1
Naphthalene	91-20-3	U	0.0020	0.0013	mg/kg	06.20.13 10:54	U	1
n-Butylbenzene	104-51-8	U	0.0010	0.00088	mg/kg	06.20.13 10:54	U	1
n-Propylbenzene	103-65-1	U	0.0010	0.00078	mg/kg	06.20.13 10:54	U	1
o-Xylene	95-47-6	U	0.00100	0.000716	mg/kg	06.20.13 10:54	U	1
sec-Butylbenzene	135-98-8	U	0.0010	0.00066	mg/kg	06.20.13 10:54	U	1
Styrene	100-42-5	U	0.0010	0.00074	mg/kg	06.20.13 10:54	U	1
tert-Butylbenzene	98-06-6	U	0.0010	0.00083	mg/kg	06.20.13 10:54	U	1
Tetrachloroethene	127-18-4	U	0.0020	0.0010	mg/kg	06.20.13 10:54	U	1
Toluene	108-88-3	U	0.0010	0.00059	mg/kg	06.20.13 10:54	U	1
trans-1,2-Dichloroethene	156-60-5	U	0.0010	0.00078	mg/kg	06.20.13 10:54	U	1
trans-1,3-Dichloropropene	10061-02-6	U	0.0010	0.00067	mg/kg	06.20.13 10:54	U	1
Trichloroethene	79-01-6	U	0.0010	0.00071	mg/kg	06.20.13 10:54	U	1
Trichlorofluoromethane	75-69-4	U	0.0050	0.0035	mg/kg	06.20.13 10:54	U	1
Vinyl acetate	108-05-4	U	0.0050	0.00072	mg/kg	06.20.13 10:54	U	1
Vinyl chloride	75-01-4	U	0.0050	0.0020	mg/kg	06.20.13 10:54	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640027-1-BLK** Matrix: WATER

Lab Sample Id: **640027-1-BLK**

Analytical Method: **MADEP VPH REV 1.1** Prep Method: SW5030B

Tech: BAT

Analyst: MLA Date Prep: 06.20.13 08:13

Seq Number: 916782

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
C5-C8 Aliphatics (Unadj.)	ALHYDRC5C8	U	15.0	15.0	ug/L	06.20.13 10:51	U	1
C9-C10 Aromatics (Unadj.)	HYDC9C10	U	5.00	5.00	ug/L	06.20.13 10:51	U	1
C9-C12 Aliphatics (Unadj.)	ALHYDRC9C1	U	15.0	15.0	ug/L	06.20.13 10:51	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640082-1-BLK** Matrix: WATER

Lab Sample Id: **640082-1-BLK**

Analytical Method: **Select Metals by SW-846 6010C** Prep Method: SW3010A

Tech: ABA

Analyst: 4150 Date Prep: 06.24.13 09:21

Seq Number: 916962

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	0.000700	0.0500	0.000300	mg/L	06.25.13 12:57	J	1
Lead	7439-92-1	U	0.0100	0.00330	mg/L	06.25.13 12:57	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640106-1-BLK** Matrix: WATER

Lab Sample Id: **640106-1-BLK**

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B

Tech: BAT

Analyst: MLA Date Prep: 06.22.13 08:09

Seq Number: 916874

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	06.22.13 11:34	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	06.22.13 11:34	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	06.22.13 11:34	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	06.22.13 11:34	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	06.22.13 11:34	U	1
1,1-Dichloropropene	563-58-6	U	1.00	0.100	ug/L	06.22.13 11:34	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	06.22.13 11:34	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.210	ug/L	06.22.13 11:34	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	06.22.13 11:34	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	06.22.13 11:34	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	06.22.13 11:34	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	06.22.13 11:34	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.22.13 11:34	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	06.22.13 11:34	U	1
1,3,5-Trimethylbenzene	108-67-8	U	1.00	0.170	ug/L	06.22.13 11:34	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	06.22.13 11:34	U	1
1,3-Dichloropropane	142-28-9	U	1.00	0.190	ug/L	06.22.13 11:34	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	06.22.13 11:34	U	1
2,2-Dichloropropane	594-20-7	U	1.00	0.210	ug/L	06.22.13 11:34	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	06.22.13 11:34	U	1
2-Chlorotoluene	95-49-8	U	1.00	0.190	ug/L	06.22.13 11:34	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	06.22.13 11:34	U	1
4-Chlorotoluene	106-43-4	U	1.00	0.130	ug/L	06.22.13 11:34	U	1
4-Isopropyltoluene	99-87-6	U	1.00	0.130	ug/L	06.22.13 11:34	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	06.22.13 11:34	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	06.22.13 11:34	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	06.22.13 11:34	U	1
Bromobenzene	108-86-1	U	1.00	0.210	ug/L	06.22.13 11:34	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	06.22.13 11:34	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	06.22.13 11:34	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	06.22.13 11:34	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	06.22.13 11:34	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	06.22.13 11:34	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	06.22.13 11:34	U	1
Chlorodibromomethane	124-48-1	U	1.00	0.150	ug/L	06.22.13 11:34	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	06.22.13 11:34	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	06.22.13 11:34	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	06.22.13 11:34	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	06.22.13 11:34	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	06.22.13 11:34	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640106-1-BLK** Matrix: WATER

Lab Sample Id: **640106-1-BLK**

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B

Tech: BAT

Analyst: MLA Date Prep: 06.22.13 08:09

Seq Number: 916874

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	06.22.13 11:34	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.22.13 11:34	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.22.13 11:34	U	1
Isopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.22.13 11:34	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	06.22.13 11:34	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.22.13 11:34	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.22.13 11:34	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	06.22.13 11:34	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.22.13 11:34	U	1
n-Butylbenzene	104-51-8	U	1.00	0.170	ug/L	06.22.13 11:34	U	1
n-Propylbenzene	103-65-1	U	1.00	0.180	ug/L	06.22.13 11:34	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.22.13 11:34	U	1
sec-Butylbenzene	135-98-8	U	1.00	0.210	ug/L	06.22.13 11:34	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	06.22.13 11:34	U	1
tert-Butylbenzene	98-06-6	U	1.00	0.180	ug/L	06.22.13 11:34	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	06.22.13 11:34	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.22.13 11:34	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	06.22.13 11:34	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	06.22.13 11:34	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	06.22.13 11:34	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	06.22.13 11:34	U	1
Vinyl acetate	108-05-4	U	1.00	0.720	ug/L	06.22.13 11:34	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	06.22.13 11:34	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640192-1-BLK** Matrix: WATER

Lab Sample Id: **640192-1-BLK**

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B

Tech: BAT

Analyst: MLA Date Prep: 06.25.13 06:41

Seq Number: 917027

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	06.25.13 09:18	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	06.25.13 09:18	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	06.25.13 09:18	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	06.25.13 09:18	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	06.25.13 09:18	U	1
1,1-Dichloropropene	563-58-6	U	1.00	0.100	ug/L	06.25.13 09:18	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	06.25.13 09:18	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.210	ug/L	06.25.13 09:18	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	06.25.13 09:18	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	06.25.13 09:18	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	06.25.13 09:18	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	06.25.13 09:18	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.25.13 09:18	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	06.25.13 09:18	U	1
1,3,5-Trimethylbenzene	108-67-8	U	1.00	0.170	ug/L	06.25.13 09:18	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	06.25.13 09:18	U	1
1,3-Dichloropropane	142-28-9	U	1.00	0.190	ug/L	06.25.13 09:18	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	06.25.13 09:18	U	1
2,2-Dichloropropane	594-20-7	U	1.00	0.210	ug/L	06.25.13 09:18	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	06.25.13 09:18	U	1
2-Chlorotoluene	95-49-8	U	1.00	0.190	ug/L	06.25.13 09:18	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	06.25.13 09:18	U	1
4-Chlorotoluene	106-43-4	U	1.00	0.130	ug/L	06.25.13 09:18	U	1
4-Isopropyltoluene	99-87-6	U	1.00	0.130	ug/L	06.25.13 09:18	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	06.25.13 09:18	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	06.25.13 09:18	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	06.25.13 09:18	U	1
Bromobenzene	108-86-1	U	1.00	0.210	ug/L	06.25.13 09:18	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	06.25.13 09:18	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	06.25.13 09:18	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	06.25.13 09:18	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	06.25.13 09:18	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	06.25.13 09:18	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	06.25.13 09:18	U	1
Chlorodibromomethane	124-48-1	U	1.00	0.150	ug/L	06.25.13 09:18	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	06.25.13 09:18	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	06.25.13 09:18	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	06.25.13 09:18	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	06.25.13 09:18	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	06.25.13 09:18	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640192-1-BLK** Matrix: WATER

Lab Sample Id: **640192-1-BLK**

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B

Tech: BAT

Analyst: MLA Date Prep: 06.25.13 06:41

Seq Number: 917027

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	06.25.13 09:18	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.25.13 09:18	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.25.13 09:18	U	1
Isopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.25.13 09:18	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	06.25.13 09:18	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.25.13 09:18	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.25.13 09:18	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	06.25.13 09:18	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.25.13 09:18	U	1
n-Butylbenzene	104-51-8	U	1.00	0.170	ug/L	06.25.13 09:18	U	1
n-Propylbenzene	103-65-1	U	1.00	0.180	ug/L	06.25.13 09:18	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.25.13 09:18	U	1
sec-Butylbenzene	135-98-8	U	1.00	0.210	ug/L	06.25.13 09:18	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	06.25.13 09:18	U	1
tert-Butylbenzene	98-06-6	U	1.00	0.180	ug/L	06.25.13 09:18	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	06.25.13 09:18	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.25.13 09:18	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	06.25.13 09:18	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	06.25.13 09:18	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	06.25.13 09:18	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	06.25.13 09:18	U	1
Vinyl acetate	108-05-4	U	1.00	0.720	ug/L	06.25.13 09:18	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	06.25.13 09:18	U	1

XENCO Laboratories
Florida Testing Services, LLC

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640195-1-BLK** Matrix: WATER

Lab Sample Id: **640195-1-BLK**

Analytical Method: **SVOCs by EPA 625M + 10 TICs** Prep Method: SW3520C

Tech: BRO

Analyst: NTR Date Prep: 06.21.13 14:00

Seq Number: 917130

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2,4-Trichlorobenzene	120-82-1	U	10.0	1.43	ug/L	06.25.13 11:44	U	1
1,2-Dichlorobenzene	95-50-1	U	10.0	1.83	ug/L	06.25.13 11:44	U	1
1,2-Diphenylhydrazine (as Azobenzene)	122-66-7	U	50.0	4.76	ug/L	06.25.13 11:44	U	1
1,3-Dichlorobenzene	541-73-1	U	10.0	2.11	ug/L	06.25.13 11:44	U	1
1,3-Dinitrobenzene	99-65-0	U	10.0	20.1	ug/L	06.25.13 11:44	U	1
2,4,6-Trichlorophenol	88-06-2	U	10.0	1.64	ug/L	06.25.13 11:44	U	1
2,4-Dichlorophenol	120-83-2	U	10.0	1.78	ug/L	06.25.13 11:44	U	1
2,4-Dimethylphenol	105-67-9	U	10.0	1.63	ug/L	06.25.13 11:44	U	1
2,4-Dinitrophenol	51-28-5	U	50.0	7.11	ug/L	06.25.13 11:44	U	1
2,4-Dinitrotoluene	121-14-2	U	10.0	2.14	ug/L	06.25.13 11:44	U	1
2,6-Dinitrotoluene	606-20-2	U	10.0	2.72	ug/L	06.25.13 11:44	U	1
2-Chloronaphthalene	91-58-7	U	10.0	1.29	ug/L	06.25.13 11:44	U	1
2-Chlorophenol	95-57-8	U	10.0	1.83	ug/L	06.25.13 11:44	U	1
2-Methylnaphthalene	91-57-6	U	10.0	1.19	ug/L	06.25.13 11:44	U	1
2-Methylphenol	95-48-7	U	10.0	2.00	ug/L	06.25.13 11:44	U	1
2-Nitrophenol	88-75-5	U	10.0	1.95	ug/L	06.25.13 11:44	U	1
3&4-Methylphenol	15831-10-4	U	10.0	2.55	ug/L	06.25.13 11:44	U	1
3,3-Dichlorobenzidine	91-94-1	U	20.0	3.88	ug/L	06.25.13 11:44	U	1
4,6-Dinitro-2-methyl phenol	534-52-1	U	50.0	1.40	ug/L	06.25.13 11:44	U	1
4-Bromophenyl phenyl ether	101-55-3	U	10.0	2.12	ug/L	06.25.13 11:44	U	1
4-Chloro-3-methylphenol	59-50-7	U	20.0	2.18	ug/L	06.25.13 11:44	U	1
4-Chloroaniline	106-47-8	U	10.0	3.09	ug/L	06.25.13 11:44	U	1
4-Chlorophenyl phenyl ether	7005-72-3	U	10.0	1.35	ug/L	06.25.13 11:44	U	1
4-Nitrophenol	100-02-7	U	50.0	2.41	ug/L	06.25.13 11:44	U	1
Acenaphthene	83-32-9	U	10.0	1.43	ug/L	06.25.13 11:44	U	1
Acenaphthylene	208-96-8	U	10.0	1.48	ug/L	06.25.13 11:44	U	1
Anthracene	120-12-7	U	10.0	2.01	ug/L	06.25.13 11:44	U	1
Benzo(a)anthracene	56-55-3	U	10.0	1.90	ug/L	06.25.13 11:44	U	1
Benzo(a)pyrene	50-32-8	U	10.0	1.80	ug/L	06.25.13 11:44	U	1
Benzo(b)fluoranthene	205-99-2	U	10.0	1.97	ug/L	06.25.13 11:44	U	1
Benzo(g,h,i)perylene	191-24-2	U	10.0	1.97	ug/L	06.25.13 11:44	U	1
Benzo(k)fluoranthene	207-08-9	U	10.0	2.71	ug/L	06.25.13 11:44	U	1
Benzoic acid	65-85-0	U	50.0	2.21	ug/L	06.25.13 11:44	U	1
Benzyl alcohol	100-51-6	U	20.0	1.23	ug/L	06.25.13 11:44	U	1
Bis(2-chloroethoxy) methane	111-91-1	U	10.0	1.25	ug/L	06.25.13 11:44	U	1
Bis(2-chloroethyl) ether	111-44-4	U	10.0	1.78	ug/L	06.25.13 11:44	U	1
Bis(2-chloroisopropyl) ether	39638-32-9	U	10.0	1.24	ug/L	06.25.13 11:44	U	1
Bis(2-ethylhexyl) phthalate	117-81-7	U	10.0	1.20	ug/L	06.25.13 11:44	U	1
Butyl benzyl phthalate	85-68-7	U	10.0	1.82	ug/L	06.25.13 11:44	U	1
Chrysene	218-01-9	U	10.0	2.09	ug/L	06.25.13 11:44	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640195-1-BLK** Matrix: WATER

Lab Sample Id: **640195-1-BLK**

Analytical Method: **SVOCs by EPA 625M + 10 TICs** Prep Method: SW3520C

Tech: BRO

Analyst: NTR Date Prep: 06.21.13 14:00

Seq Number: 917130

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Dibenz(a,h)anthracene	53-70-3	U	10.0	1.83	ug/L	06.25.13 11:44	U	1
Dibenzofuran	132-64-9	U	10.0	1.64	ug/L	06.25.13 11:44	U	1
Diethyl phthalate	84-66-2	U	10.0	1.90	ug/L	06.25.13 11:44	U	1
Dimethyl phthalate	131-11-3	U	10.0	1.97	ug/L	06.25.13 11:44	U	1
Di-n-butyl phthalate	84-74-2	U	10.0	2.08	ug/L	06.25.13 11:44	U	1
Di-n-octyl phthalate	117-84-0	U	10.0	1.38	ug/L	06.25.13 11:44	U	1
Fluoranthene	206-44-0	U	10.0	1.81	ug/L	06.25.13 11:44	U	1
Fluorene	86-73-7	U	10.0	1.56	ug/L	06.25.13 11:44	U	1
Hexachlorobenzene	118-74-1	U	10.0	2.21	ug/L	06.25.13 11:44	U	1
Hexachlorobutadiene	87-68-3	U	10.0	1.78	ug/L	06.25.13 11:44	U	1
Hexachlorocyclopentadiene	77-47-4	U	10.0	1.87	ug/L	06.25.13 11:44	U	1
Hexachloroethane	67-72-1	U	10.0	2.38	ug/L	06.25.13 11:44	U	1
Indeno(1,2,3-c,d)pyrene	193-39-5	U	10.0	1.87	ug/L	06.25.13 11:44	U	1
Isophorone	78-59-1	U	10.0	1.41	ug/L	06.25.13 11:44	U	1
Naphthalene	91-20-3	U	10.0	1.52	ug/L	06.25.13 11:44	U	1
Nitrobenzene	98-95-3	U	10.0	1.49	ug/L	06.25.13 11:44	U	1
N-Nitrosodi-n-propylamine	621-64-7	U	10.0	1.36	ug/L	06.25.13 11:44	U	1
N-Nitrosodiphenylamine	86-30-6	U	10.0	2.50	ug/L	06.25.13 11:44	U	1
Pentachlorophenol	87-86-5	U	50.0	2.26	ug/L	06.25.13 11:44	U	1
Phenanthrene	85-01-8	U	10.0	2.04	ug/L	06.25.13 11:44	U	1
Phenol	108-95-2	U	10.0	1.76	ug/L	06.25.13 11:44	U	1
Pyrene	129-00-0	U	10.0	2.40	ug/L	06.25.13 11:44	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640202-1-BLK** Matrix: WATER

Lab Sample Id: **640202-1-BLK**

Analytical Method: **EPH by MADEP Method** Prep Method: SW3520C

Tech: BRO

Analyst: NTR Date Prep: 06.20.13 10:30

Seq Number: 917179

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Unadjusted C11-C22 Aromatics	C11C22	U	100	100	ug/L	06.25.13 20:52	U	1
Unadjusted C9-C18 Aliphatics	ALHYDRC9C1	U	100	100	ug/L	06.26.13 06:02	U	1
Unadjusted C19-C36 Aliphatics	ALHYDRC19C	U	100	100	ug/L	06.26.13 06:02	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640292-1-BLK** Matrix: WATER

Lab Sample Id: **640292-1-BLK**

Analytical Method: **VOCs by GC/MS by SM6200B** Prep Method: SM6200B_PREP

Tech: BAT

Analyst: MLA Date Prep: 06.26.13 07:23

Seq Number: 917159

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	0.500	0.0760	ug/L	06.26.13 10:33	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.500	0.0700	ug/L	06.26.13 10:33	U	1
1,1,2-Trichloroethane	79-00-5	U	0.500	0.113	ug/L	06.26.13 10:33	U	1
1,1-Dichloroethane	75-34-3	U	0.500	0.121	ug/L	06.26.13 10:33	U	1
1,1-Dichloroethene	75-35-4	U	0.500	0.104	ug/L	06.26.13 10:33	U	1
1,1-Dichloropropene	563-58-6	U	0.500	0.0600	ug/L	06.26.13 10:33	U	1
1,2,3-Trichlorobenzene	87-61-6	U	2.00	0.118	ug/L	06.26.13 10:33	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.138	ug/L	06.26.13 10:33	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.0690	ug/L	06.26.13 10:33	U	1
1,2,4-Trimethylbenzene	95-63-6	U	0.500	0.103	ug/L	06.26.13 10:33	U	1
1,2-Dibromoethane (EDB)		U	1.00	0.180	ug/L	06.26.13 10:33	U	1
1,2-Dichlorobenzene	95-50-1	U	0.500	0.0940	ug/L	06.26.13 10:33	U	1
1,2-Dichloroethane	107-06-2	U	0.500	0.0900	ug/L	06.26.13 10:33	U	1
1,2-Dichloropropane	78-87-5	U	0.500	0.122	ug/L	06.26.13 10:33	U	1
1,3,5-Trimethylbenzene	108-67-8	U	0.500	0.0870	ug/L	06.26.13 10:33	U	1
1,3-Dichlorobenzene	541-73-1	U	0.500	0.0980	ug/L	06.26.13 10:33	U	1
1,3-Dichloropropane	142-28-9	U	0.500	0.133	ug/L	06.26.13 10:33	U	1
1,4-Dichlorobenzene	106-46-7	U	0.500	0.0670	ug/L	06.26.13 10:33	U	1
2,2-Dichloropropane	594-20-7	U	0.200	0.0970	ug/L	06.26.13 10:33	U	1
2-Butanone (MEK)	78-93-3	U	20.0	0.378	ug/L	06.26.13 10:33	U	1
2-Chlorotoluene	95-49-8	U	0.200	0.0880	ug/L	06.26.13 10:33	U	1
2-Hexanone	591-78-6	U	0.400	0.352	ug/L	06.26.13 10:33	U	1
4-Chlorotoluene	106-43-4	U	0.500	0.0900	ug/L	06.26.13 10:33	U	1
4-Isopropyltoluene	99-87-6	U	0.500	0.0890	ug/L	06.26.13 10:33	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	0.400	0.253	ug/L	06.26.13 10:33	U	1
Acetone	67-64-1	U	2.00	0.352	ug/L	06.26.13 10:33	U	1
Benzene	71-43-2	U	0.500	0.119	ug/L	06.26.13 10:33	U	1
Bromobenzene	108-86-1	U	0.500	0.132	ug/L	06.26.13 10:33	U	1
Bromochloromethane	74-97-5	U	0.500	0.112	ug/L	06.26.13 10:33	U	1
Bromodichloromethane	75-27-4	U	0.500	0.124	ug/L	06.26.13 10:33	U	1
Bromoform	75-25-2	U	2.00	0.159	ug/L	06.26.13 10:33	U	1
Bromomethane	74-83-9	U	1.00	0.0970	ug/L	06.26.13 10:33	U	1
Carbon tetrachloride	56-23-5	U	0.500	0.0990	ug/L	06.26.13 10:33	U	1
Chlorobenzene	108-90-7	U	0.500	0.105	ug/L	06.26.13 10:33	U	1
Chlorodibromomethane	124-48-1	U	0.500	0.177	ug/L	06.26.13 10:33	U	1
Chloroethane	75-00-3	U	0.500	0.0420	ug/L	06.26.13 10:33	U	1
Chloroform	67-66-3	U	0.500	0.172	ug/L	06.26.13 10:33	U	1
Chloromethane	74-87-3	U	0.500	0.0850	ug/L	06.26.13 10:33	U	1
cis-1,2-Dichloroethene	156-59-2	U	0.500	0.114	ug/L	06.26.13 10:33	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	06.26.13 10:33	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640292-1-BLK** Matrix: WATER

Lab Sample Id: **640292-1-BLK**

Analytical Method: **VOCs by GC/MS by SM6200B** Prep Method: SM6200B_PREP

Tech: BAT

Analyst: MLA Date Prep: 06.26.13 07:23

Seq Number: 917159

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Dichlorodifluoromethane	75-71-8	U	1.00	0.0670	ug/L	06.26.13 10:33	U	1
Ethanol	64-17-5	U	50.0	3.00	ug/L	06.26.13 10:33	U	1
Ethylbenzene	100-41-4	U	0.500	0.0920	ug/L	06.26.13 10:33	U	1
Isopropyl ether	108-20-3	U	0.500	0.0920	ug/L	06.26.13 10:33	U	1
Isopropylbenzene	98-82-8	U	0.500	0.0980	ug/L	06.26.13 10:33	U	1
Methyl tert-butyl ether (MTBE)	1634-04-4	U	0.500	0.169	ug/L	06.26.13 10:33	U	1
Methylene Chloride	75-09-2	U	0.500	0.190	ug/L	06.26.13 10:33	U	1
Naphthalene	91-20-3	U	2.00	0.0940	ug/L	06.26.13 10:33	U	1
n-Butylbenzene	104-51-8	U	2.00	0.0600	ug/L	06.26.13 10:33	U	1
n-Propylbenzene	103-65-1	U	1.00	0.0650	ug/L	06.26.13 10:33	U	1
sec-Butylbenzene	135-98-8	U	0.500	0.0920	ug/L	06.26.13 10:33	U	1
Styrene	100-42-5	U	0.500	0.0740	ug/L	06.26.13 10:33	U	1
tert-Butylbenzene	98-06-6	U	0.500	0.0890	ug/L	06.26.13 10:33	U	1
Tetrachloroethene (PCE)	127-18-4	U	0.500	0.0540	ug/L	06.26.13 10:33	U	1
Toluene	108-88-3	U	0.500	0.0570	ug/L	06.26.13 10:33	U	1
trans-1,2-Dichloroethene	156-60-5	U	0.500	0.188	ug/L	06.26.13 10:33	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	06.26.13 10:33	U	1
Trichloroethene	79-01-6	U	0.500	0.139	ug/L	06.26.13 10:33	U	1
Trichlorofluoromethane	75-69-4	U	0.500	0.0540	ug/L	06.26.13 10:33	U	1
Vinyl Acetate	108-05-4	U	1.00	0.720	ug/L	06.26.13 10:33	U	1
Vinyl Chloride	75-01-4	U	0.500	0.0810	ug/L	06.26.13 10:33	U	1
m,p-Xylenes	179601-23-1	U	1.00	0.176	ug/L	06.26.13 10:33	U	1
o-Xylene	95-47-6	U	0.500	0.122	ug/L	06.26.13 10:33	U	1

Blank Summary 465343

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **640310-1-BLK** Matrix: SOLID

Lab Sample Id: **640310-1-BLK**

Analytical Method: **MADEP VPH REV 1.1** Prep Method: SW5030B

Tech: BAT

Analyst: MLA Date Prep: 06.26.13 07:39

Seq Number: 917180

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Unadjusted C5-C8 Aliphatics	ALHYDRC5C8	U	0.750	0.750	mg/kg	06.26.13 11:01	U	50
Unadjusted C9-C12 Aliphatics	ALHYDRC9C1	U	0.750	0.750	mg/kg	06.26.13 11:01	U	50
Unadjusted C9-C10 Aromatics	HYDC9C10	U	0.250	0.250	mg/kg	06.26.13 11:01	U	50

WO #4 653446.3 EMB 6/22/13

Chain of Custody Record

Page 1 of 1

Mill Creek Environmental Services, Inc.
1818 Perimeter Rd.
Dawsonville, GA 30534
Phone: 706-579-1607
Fax: 706-265-4916

ENVIRONMENTAL SERVICES

Client: Apex Village	MCES Project #: AV-1301-6
Send Report To: Mill Creek Environmental Services, Inc. 1818 Perimeter Rd. Dawsonville, GA 30534	
Attn: Dan Centofanti	Acct. #:
Phone: 706-579-1607	Shipping Method:
Fax: 706-265-4916	Airbill #: 8027 1162 4586
Sampled By: David Payne	Signature: David Payne
Turnaround Time: (X) Standard ( ) Rush	

Requested Parameters

Sample ID	Date	Time	Grab (G) Comp. (C)	Matrix	VOC 8260 B	SVOC 8270	EPH	VPH	Pb + Cr (total metals)	VOC 8260B + Naphthalene	VOCs 6200B	SVOCs 625 + 10 TICs		# and type of containers: HCL	HNO_3	H_2SO_4	NaOH	MeOH	None	Remarks
MW-4, 12'	6-17-13	1450	X	S	X	X	X	X	X								2	2	2	
MW-4, 16'	6-17-13	1500	X	S	X	X	X	X	X								2	2	2	
MW-1	6-18-13	1415	X	GW						X										
MW-2	6-18-13	1440	X	GW						X										
MW-3	6-18-13	1500	X	GW						X										
MW-4	6-18-13	1520	X	GW			X	X	X		X	X								6 Ambers 5 VOAS 1 HDPE metals = 12

Comments: Shipped Sedex @ Office Max, Apex N.C.

Relinquished By: David Payne	Date: 6-18-13	Time: 1700	Received By: Amio Lagmas	Date: 6/19/13	Time: 10:00
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

2.5°C

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Mill Creek Environmental Services

Date/ Time Received: 06/19/2013 10:00:00 AM

Work Order #: 465343

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : #61

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	2.5	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6 *Custody Seals Signed and dated?	**N/A**	
#7 *Chain of Custody present?	**Yes**	
#8 Sample instructions complete on Chain of Custody?	**Yes**	
#9 Any missing/extra samples?	**No**	
#10 Chain of Custody signed when relinquished/ received?	**Yes**	
#11 Chain of Custody agrees with sample label(s)?	**Yes**	
#12 Container label(s) legible and intact?	**Yes**	
#13 Sample matrix/ properties agree with Chain of Custody?	**Yes**	
#14 Samples in proper container/ bottle?	**Yes**	
#15 Samples properly preserved?	**Yes**	
#16 Sample container(s) intact?	**Yes**	
#17 Sufficient sample amount for indicated test(s)?	**Yes**	
#18 All samples received within hold time?	**Yes**	
#19 Subcontract of sample(s)?	**No**	
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	**Yes**	
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	**Yes**	
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: DL	PH Device/Lot#: I16497-8

Checklist completed by: Dario Lagunas Date: 06/20/2013

Checklist reviewed by: Eben Buchanan Date: 06/22/2013

Analytical Report 470271

for

Mill Creek Environmental Services

Project Manager: David Payne

Apex Village

AV-1301-7

17-SEP-13

Collected By: Client

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-13-14-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Lakeland: Florida (E84098)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

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XENCO Laboratories
Florida Testing Services, LLC

17-SEP-13

Project Manager: **David Payne**
Mill Creek Environmental Services
1818 Perimeter Road
Dawsonville, GA 30534

Reference: XENCO Report No(s): **470271**
Apex Village
Project Address: GA

David Payne:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 470271. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 470271 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Eben D. Buchanan, Jr.

Eben Buchanan
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America

Sample Cross Reference 470271

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-5	W	09-12-13 15:40		470271-001
MW-6	W	09-12-13 15:25		470271-002
MW-7	W	09-12-13 15:50		470271-003
Trip Blank	W	09-12-13 00:00		470271-004

CASE NARRATIVE

Client Name: Mill Creek Environmental Services
Project Name: Apex Village

Project ID: *AV-1301-7*
Work Order Number(s): *470271*

Report Date: *17-SEP-13*
Date Received: *09/13/2013*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:
Batch: LBA-922734 VOCs by SW-846 8260B
SW8260LL5_ATL

Batch 922734, 1,1,2-Trichloroethane recovered above QC limits in the Matrix Spike. 1,2-Dibromoethane (EDB) recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 470271-004, -001, -002, -003.
The Laboratory Control Sample for 1,2-Dibromoethane (EDB), 1,1,2-Trichloroethane is within laboratory Control Limits

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantiation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Certificate of Analytical Results 470271

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-5** Matrix: Ground Water Date Received:09.13.13 10.30

Lab Sample Id: 470271-001 Date Collected: 09.12.13 15.40

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 09.14.13 08.03

Seq Number: 922734

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	09.14.13 17.04	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	09.14.13 17.04	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.00	0.110	ug/L	09.14.13 17.04	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	09.14.13 17.04	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	09.14.13 17.04	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	09.14.13 17.04	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	09.14.13 17.04	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	09.14.13 17.04	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	09.14.13 17.04	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.00	0.190	ug/L	09.14.13 17.04	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	09.14.13 17.04	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	09.14.13 17.04	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	09.14.13 17.04	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	09.14.13 17.04	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	09.14.13 17.04	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	09.14.13 17.04	U	1
2-Butanone (MEK)	78-93-3	U	50.0	0.280	ug/L	09.14.13 17.04	U	1
2-Hexanone	591-78-6	U	50.0	0.320	ug/L	09.14.13 17.04	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	50.0	0.260	ug/L	09.14.13 17.04	U	1
Acetone	67-64-1	U	50.0	0.350	ug/L	09.14.13 17.04	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	09.14.13 17.04	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	09.14.13 17.04	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	09.14.13 17.04	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	09.14.13 17.04	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	09.14.13 17.04	U	1
Carbon disulfide	75-15-0	U	50.0	0.260	ug/L	09.14.13 17.04	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	09.14.13 17.04	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	09.14.13 17.04	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	09.14.13 17.04	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	09.14.13 17.04	U	1
Chloromethane	74-87-3	U	3.00	0.250	ug/L	09.14.13 17.04	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	09.14.13 17.04	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	09.14.13 17.04	U	1
Cyclohexane	110-82-7	U	1.00	0.150	ug/L	09.14.13 17.04	U	1
Dibromochloromethane	124-48-1	U	1.00	0.150	ug/L	09.14.13 17.04	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	09.14.13 17.04	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	09.14.13 17.04	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	09.14.13 17.04	U	1
m,p-Xylenes	179601-23-1	U	5.00	0.510	ug/L	09.14.13 17.04	U	1

Certificate of Analytical Results 470271

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-5** Matrix: Ground Water Date Received:09.13.13 10.30

Lab Sample Id: 470271-001 Date Collected: 09.12.13 15.40

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 09.14.13 08.03

Seq Number: 922734

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methyl acetate	79-20-9	U	10.0	0.260	ug/L	09.14.13 17.04	U	1
Methylcyclohexane	108-87-2	U	1.00	0.110	ug/L	09.14.13 17.04	U	1
Methylene chloride	75-09-2	U	5.00	0.420	ug/L	09.14.13 17.04	U	1
o-Xylene	95-47-6	U	5.00	0.200	ug/L	09.14.13 17.04	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	09.14.13 17.04	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	09.14.13 17.04	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	09.14.13 17.04	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	09.14.13 17.04	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	09.14.13 17.04	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	09.14.13 17.04	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	09.14.13 17.04	U	1
Vinyl chloride	75-01-4	U	2.00	0.190	ug/L	09.14.13 17.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	113	%	53-159	09.14.13 17.04	
4-Bromofluorobenzene	460-00-4	110	%	30-186	09.14.13 17.04	
Toluene-D8	2037-26-5	102	%	70-130	09.14.13 17.04	

Certificate of Analytical Results 470271

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-6** Matrix: Ground Water Date Received:09.13.13 10.30

Lab Sample Id: 470271-002 Date Collected: 09.12.13 15.25

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 09.14.13 08.03

Seq Number: 922734

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	09.14.13 16.37	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	09.14.13 16.37	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.00	0.110	ug/L	09.14.13 16.37	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	09.14.13 16.37	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	09.14.13 16.37	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	09.14.13 16.37	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	09.14.13 16.37	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	09.14.13 16.37	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	09.14.13 16.37	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.00	0.190	ug/L	09.14.13 16.37	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	09.14.13 16.37	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	09.14.13 16.37	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	09.14.13 16.37	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	09.14.13 16.37	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	09.14.13 16.37	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	09.14.13 16.37	U	1
2-Butanone (MEK)	78-93-3	U	50.0	0.280	ug/L	09.14.13 16.37	U	1
2-Hexanone	591-78-6	U	50.0	0.320	ug/L	09.14.13 16.37	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	50.0	0.260	ug/L	09.14.13 16.37	U	1
Acetone	67-64-1	U	50.0	0.350	ug/L	09.14.13 16.37	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	09.14.13 16.37	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	09.14.13 16.37	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	09.14.13 16.37	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	09.14.13 16.37	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	09.14.13 16.37	U	1
Carbon disulfide	75-15-0	U	50.0	0.260	ug/L	09.14.13 16.37	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	09.14.13 16.37	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	09.14.13 16.37	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	09.14.13 16.37	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	09.14.13 16.37	U	1
Chloromethane	74-87-3	U	3.00	0.250	ug/L	09.14.13 16.37	U	1
cis-1,2-Dichloroethene	156-59-2	**6.78**	1.00	0.210	ug/L	09.14.13 16.37		1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	09.14.13 16.37	U	1
Cyclohexane	110-82-7	U	1.00	0.150	ug/L	09.14.13 16.37	U	1
Dibromochloromethane	124-48-1	U	1.00	0.150	ug/L	09.14.13 16.37	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	09.14.13 16.37	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	09.14.13 16.37	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	09.14.13 16.37	U	1
m,p-Xylenes	179601-23-1	U	5.00	0.510	ug/L	09.14.13 16.37	U	1

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Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-6** Matrix: Ground Water Date Received:09.13.13 10.30

Lab Sample Id: 470271-002 Date Collected: 09.12.13 15.25

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 09.14.13 08.03

Seq Number: 922734

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methyl acetate	79-20-9	U	10.0	0.260	ug/L	09.14.13 16.37	U	1
Methylcyclohexane	108-87-2	U	1.00	0.110	ug/L	09.14.13 16.37	U	1
Methylene chloride	75-09-2	U	5.00	0.420	ug/L	09.14.13 16.37	U	1
o-Xylene	95-47-6	U	5.00	0.200	ug/L	09.14.13 16.37	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	09.14.13 16.37	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	09.14.13 16.37	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	09.14.13 16.37	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	09.14.13 16.37	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	09.14.13 16.37	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	09.14.13 16.37	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	09.14.13 16.37	U	1
Vinyl chloride	75-01-4	**1.10**	2.00	0.190	ug/L	09.14.13 16.37	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	116	%	53-159	09.14.13 16.37	
4-Bromofluorobenzene	460-00-4	110	%	30-186	09.14.13 16.37	
Toluene-D8	2037-26-5	97	%	70-130	09.14.13 16.37	

Certificate of Analytical Results 470271

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-7** Matrix: Ground Water Date Received:09.13.13 10.30

Lab Sample Id: 470271-003 Date Collected: 09.12.13 15.50

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 09.14.13 08.03

Seq Number: 922734

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	09.14.13 16.10	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	09.14.13 16.10	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.00	0.110	ug/L	09.14.13 16.10	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	09.14.13 16.10	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	09.14.13 16.10	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	09.14.13 16.10	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	09.14.13 16.10	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	09.14.13 16.10	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	09.14.13 16.10	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.00	0.190	ug/L	09.14.13 16.10	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	09.14.13 16.10	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	09.14.13 16.10	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	09.14.13 16.10	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	09.14.13 16.10	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	09.14.13 16.10	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	09.14.13 16.10	U	1
2-Butanone (MEK)	78-93-3	U	50.0	0.280	ug/L	09.14.13 16.10	U	1
2-Hexanone	591-78-6	U	50.0	0.320	ug/L	09.14.13 16.10	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	50.0	0.260	ug/L	09.14.13 16.10	U	1
Acetone	67-64-1	U	50.0	0.350	ug/L	09.14.13 16.10	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	09.14.13 16.10	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	09.14.13 16.10	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	09.14.13 16.10	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	09.14.13 16.10	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	09.14.13 16.10	U	1
Carbon disulfide	75-15-0	U	50.0	0.260	ug/L	09.14.13 16.10	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	09.14.13 16.10	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	09.14.13 16.10	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	09.14.13 16.10	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	09.14.13 16.10	U	1
Chloromethane	74-87-3	U	3.00	0.250	ug/L	09.14.13 16.10	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	09.14.13 16.10	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	09.14.13 16.10	U	1
Cyclohexane	110-82-7	U	1.00	0.150	ug/L	09.14.13 16.10	U	1
Dibromochloromethane	124-48-1	U	1.00	0.150	ug/L	09.14.13 16.10	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	09.14.13 16.10	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	09.14.13 16.10	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	09.14.13 16.10	U	1
m,p-Xylenes	179601-23-1	U	5.00	0.510	ug/L	09.14.13 16.10	U	1

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Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **MW-7** Matrix: Ground Water Date Received:09.13.13 10.30

Lab Sample Id: 470271-003 Date Collected: 09.12.13 15.50

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 09.14.13 08.03

Seq Number: 922734

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methyl acetate	79-20-9	U	10.0	0.260	ug/L	09.14.13 16.10	U	1
Methylcyclohexane	108-87-2	U	1.00	0.110	ug/L	09.14.13 16.10	U	1
Methylene chloride	75-09-2	U	5.00	0.420	ug/L	09.14.13 16.10	U	1
o-Xylene	95-47-6	U	5.00	0.200	ug/L	09.14.13 16.10	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	09.14.13 16.10	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	09.14.13 16.10	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	09.14.13 16.10	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	09.14.13 16.10	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	09.14.13 16.10	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	09.14.13 16.10	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	09.14.13 16.10	U	1
Vinyl chloride	75-01-4	U	2.00	0.190	ug/L	09.14.13 16.10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	115	%	53-159	09.14.13 16.10	
4-Bromofluorobenzene	460-00-4	110	%	30-186	09.14.13 16.10	
Toluene-D8	2037-26-5	99	%	70-130	09.14.13 16.10	

Certificate of Analytical Results 470271

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **Trip Blank** Matrix: Water Date Received:09.13.13 10.30

Lab Sample Id: 470271-004 Date Collected: 09.12.13 00.00

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 09.14.13 08.03

Seq Number: 922734

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	09.14.13 15.43	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	09.14.13 15.43	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.00	0.110	ug/L	09.14.13 15.43	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	09.14.13 15.43	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	09.14.13 15.43	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	09.14.13 15.43	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	09.14.13 15.43	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	09.14.13 15.43	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	09.14.13 15.43	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.00	0.190	ug/L	09.14.13 15.43	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	09.14.13 15.43	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	09.14.13 15.43	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	09.14.13 15.43	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	09.14.13 15.43	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	09.14.13 15.43	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	09.14.13 15.43	U	1
2-Butanone (MEK)	78-93-3	U	50.0	0.280	ug/L	09.14.13 15.43	U	1
2-Hexanone	591-78-6	U	50.0	0.320	ug/L	09.14.13 15.43	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	50.0	0.260	ug/L	09.14.13 15.43	U	1
Acetone	67-64-1	U	50.0	0.350	ug/L	09.14.13 15.43	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	09.14.13 15.43	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	09.14.13 15.43	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	09.14.13 15.43	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	09.14.13 15.43	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	09.14.13 15.43	U	1
Carbon disulfide	75-15-0	U	50.0	0.260	ug/L	09.14.13 15.43	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	09.14.13 15.43	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	09.14.13 15.43	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	09.14.13 15.43	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	09.14.13 15.43	U	1
Chloromethane	74-87-3	U	3.00	0.250	ug/L	09.14.13 15.43	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	09.14.13 15.43	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	09.14.13 15.43	U	1
Cyclohexane	110-82-7	U	1.00	0.150	ug/L	09.14.13 15.43	U	1
Dibromochloromethane	124-48-1	U	1.00	0.150	ug/L	09.14.13 15.43	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	09.14.13 15.43	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	09.14.13 15.43	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	09.14.13 15.43	U	1
m,p-Xylenes	179601-23-1	U	5.00	0.510	ug/L	09.14.13 15.43	U	1

Certificate of Analytical Results 470271

Mill Creek Environmental Services, Dawsonville, GA

Apex Village

Sample Id: **Trip Blank** Matrix: Water Date Received:09.13.13 10.30

Lab Sample Id: 470271-004 Date Collected: 09.12.13 00.00

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: BAT % Moisture:

Analyst: MLA Date Prep: 09.14.13 08.03

Seq Number: 922734

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Methyl acetate	79-20-9	U	10.0	0.260	ug/L	09.14.13 15.43	U	1
Methylcyclohexane	108-87-2	U	1.00	0.110	ug/L	09.14.13 15.43	U	1
Methylene chloride	75-09-2	U	5.00	0.420	ug/L	09.14.13 15.43	U	1
o-Xylene	95-47-6	U	5.00	0.200	ug/L	09.14.13 15.43	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	09.14.13 15.43	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	09.14.13 15.43	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	09.14.13 15.43	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	09.14.13 15.43	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	09.14.13 15.43	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	09.14.13 15.43	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	09.14.13 15.43	U	1
Vinyl chloride	75-01-4	U	2.00	0.190	ug/L	09.14.13 15.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	111	%	53-159	09.14.13 15.43	
4-Bromofluorobenzene	460-00-4	114	%	30-186	09.14.13 15.43	
Toluene-D8	2037-26-5	101	%	70-130	09.14.13 15.43	

QC Summary 470271

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B
Seq Number: 922734 Matrix: Water Date Prep: 09.14.13
MB Sample Id: 643859-1-BLK LCS Sample Id: 643859-1-BKS LCSD Sample Id: 643859-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.160	50.0	56.0	112	54.2	108	65-130	3	20	ug/L	09.14.13 08:51	
1,1,2,2-Tetrachloroethane	<0.180	50.0	52.0	104	56.5	113	65-130	8	20	ug/L	09.14.13 08:51	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.110	50.0	51.9	104	49.6	99	65-130	5	20	ug/L	09.14.13 08:51	
1,1,2-Trichloroethane	<0.250	50.0	56.3	113	60.0	120	75-125	6	20	ug/L	09.14.13 08:51	
1,1-Dichloroethane	<0.110	50.0	47.0	94	44.8	90	70-135	5	20	ug/L	09.14.13 08:51	
1,1-Dichloroethene	<0.200	50.0	48.6	97	46.1	92	70-130	5	20	ug/L	09.14.13 08:51	
1,2,3-Trichlorobenzene	<0.250	50.0	48.9	98	51.1	102	55-140	4	20	ug/L	09.14.13 08:51	
1,2,4-Trichlorobenzene	<0.170	50.0	50.5	101	52.7	105	65-135	4	20	ug/L	09.14.13 08:51	
1,2,4-Trimethylbenzene	<0.140	50.0	54.7	109	58.0	116	75-130	6	20	ug/L	09.14.13 08:51	
1,2-Dibromo-3-chloropropane (DBCP)	<0.190	50.0	53.6	107	55.7	111	50-130	4	20	ug/L	09.14.13 08:51	
1,2-Dibromoethane (EDB)	<0.180	50.0	57.4	115	59.2	118	80-120	3	20	ug/L	09.14.13 08:51	
1,2-Dichlorobenzene	<0.140	50.0	52.3	105	55.1	110	70-120	5	20	ug/L	09.14.13 08:51	
1,2-Dichloroethane	<0.180	50.0	59.0	118	59.0	118	70-130	0	20	ug/L	09.14.13 08:51	
1,2-Dichloropropane	<0.150	50.0	50.6	101	53.3	107	75-125	5	20	ug/L	09.14.13 08:51	
1,3-Dichlorobenzene	<0.170	50.0	52.5	105	55.8	112	75-125	6	20	ug/L	09.14.13 08:51	
1,4-Dichlorobenzene	<0.170	50.0	51.4	103	55.2	110	75-125	7	20	ug/L	09.14.13 08:51	
2-Butanone (MEK)	<0.280	100	108	108	105	105	30-150	3	20	ug/L	09.14.13 08:51	
2-Hexanone	<0.320	100	130	130	128	128	55-130	2	20	ug/L	09.14.13 08:51	
4-Methyl-2-pentanone (MIBK)	<0.260	100	99.4	99	99.4	99	60-135	0	20	ug/L	09.14.13 08:51	
Acetone	<0.350	100	120	120	105	105	40-140	13	20	ug/L	09.14.13 08:51	
Benzene	<0.160	50.0	49.4	99	49.8	100	80-120	1	20	ug/L	09.14.13 08:51	
Bromochloromethane	<0.200	50.0	51.0	102	48.6	97	65-130	5	20	ug/L	09.14.13 08:51	
Bromodichloromethane	<0.250	50.0	59.1	118	58.7	117	75-120	1	20	ug/L	09.14.13 08:51	
Bromoform	<0.170	50.0	52.8	106	58.4	117	70-130	10	20	ug/L	09.14.13 08:51	
Bromomethane	<0.250	50.0	47.4	95	43.5	87	30-145	9	20	ug/L	09.14.13 08:51	
Carbon disulfide	<0.260	50.0	48.8	98	47.1	94	35-160	4	20	ug/L	09.14.13 08:51	
Carbon tetrachloride	<0.330	50.0	59.2	118	58.1	116	65-140	2	20	ug/L	09.14.13 08:51	
Chlorobenzene	<0.150	50.0	53.5	107	55.8	112	80-120	4	20	ug/L	09.14.13 08:51	
Chloroethane	<0.260	50.0	42.5	85	40.7	81	60-135	4	20	ug/L	09.14.13 08:51	
Chloroform	<0.160	50.0	52.1	104	49.4	99	65-135	5	20	ug/L	09.14.13 08:51	
Chloromethane	<0.250	50.0	41.0	82	38.8	78	40-125	6	20	ug/L	09.14.13 08:51	
cis-1,2-Dichloroethene	<0.210	50.0	47.2	94	44.7	89	70-125	5	20	ug/L	09.14.13 08:51	
cis-1,3-Dichloropropene	<0.100	50.0	60.3	121	64.4	129	70-130	7	20	ug/L	09.14.13 08:51	
Cyclohexane	<0.150	50.0	46.6	93	44.5	89	65-135	5	20	ug/L	09.14.13 08:51	
Dibromochloromethane	<0.150	50.0	62.1	124	65.5	131	60-135	5	20	ug/L	09.14.13 08:51	
Dichlorodifluoromethane	<0.220	50.0	53.3	107	49.6	99	30-155	7	20	ug/L	09.14.13 08:51	
Ethylbenzene	<0.190	50.0	55.7	111	57.8	116	75-125	4	20	ug/L	09.14.13 08:51	
Isopropylbenzene	<0.150	50.0	54.7	109	60.2	120	75-125	10	20	ug/L	09.14.13 08:51	
m,p-Xylenes	<0.510	100	105	105	110	110	75-130	5	20	ug/L	09.14.13 08:51	
Methyl acetate	<0.260	50.0	46.7	93	45.5	91	65-135	3	20	ug/L	09.14.13 08:51	
Methylcyclohexane	<0.110	50.0	52.9	106	50.3	101	65-135	5	20	ug/L	09.14.13 08:51	
Methylene chloride	<0.420	50.0	45.4	91	42.8	86	55-140	6	20	ug/L	09.14.13 08:51	
o-Xylene	<0.200	50.0	50.7	101	51.8	104	80-120	2	20	ug/L	09.14.13 08:51	
Styrene	<0.180	50.0	53.6	107	55.1	110	65-135	3	20	ug/L	09.14.13 08:51	
Tetrachloroethene	<0.160	50.0	54.8	110	58.6	117	45-150	7	20	ug/L	09.14.13 08:51	
Toluene	<0.140	50.0	54.3	109	57.9	116	75-120	6	20	ug/L	09.14.13 08:51	
trans-1,2-Dichloroethene	<0.210	50.0	46.0	92	43.7	87	60-140	5	20	ug/L	09.14.13 08:51	
trans-1,3-Dichloropropene	<0.110	50.0	62.7	125	64.7	129	55-140	3	20	ug/L	09.14.13 08:51	
Trichloroethene	<0.190	50.0	54.1	108	55.1	110	70-125	2	20	ug/L	09.14.13 08:51	
Trichlorofluoromethane	<0.530	50.0	59.2	118	56.9	114	60-145	4	20	ug/L	09.14.13 08:51	
Vinyl chloride	<0.190	50.0	41.5	83	39.5	79	50-145	5	20	ug/L	09.14.13 08:51	

QC Summary 470271

Mill Creek Environmental Services

Apex Village

Analytical Method:	**VOCs by SW-846 8260B**			Prep Method:	SW5030B
Seq Number:	922734	Matrix:	Water	Date Prep:	09.14.13
MB Sample Id:	643859-1-BLK	LCS Sample Id:	643859-1-BKS	LCSD Sample Id:	643859-1-BSD

Surrogate	**MB %Rec**	**MB Flag**	**LCS %Rec**	**LCS Flag**	**LCSD %Rec**	**LCSD Flag**	**Limits**	**Units**	**Analysis Date**
1,2-Dichloroethane-D4	102		106		102		53-159	%	09.14.13 08:51
4-Bromofluorobenzene	108		108		112		30-186	%	09.14.13 08:51
Toluene-D8	104		100		102		70-130	%	09.14.13 08:51

QC Summary 470271

XENCO Laboratories
Florida Testing Services, LLC

Mill Creek Environmental Services
Apex Village

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B
Seq Number: 922734 Matrix: Ground Water Date Prep: 09.14.13
Parent Sample Id: 469992-004 MS Sample Id: 469992-004 S MSD Sample Id: 469992-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.160	50.0	54.8	110	54.6	109	59-138	0	20	ug/L	09.14.13 19:20	
1,1,2,2-Tetrachloroethane	<0.180	50.0	57.7	115	58.6	117	63-126	2	20	ug/L	09.14.13 19:20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.110	50.0	47.1	94	47.1	94	53-138	0	20	ug/L	09.14.13 19:20	
1,1,2-Trichloroethane	<0.250	50.0	58.5	117	56.1	112	72-115	4	20	ug/L	09.14.13 19:20	X
1,1-Dichloroethane	<0.110	50.0	45.0	90	45.6	91	69-132	1	20	ug/L	09.14.13 19:20	
1,1-Dichloroethene	<0.200	50.0	44.9	90	46.2	92	62-131	3	20	ug/L	09.14.13 19:20	
1,2,3-Trichlorobenzene	<0.250	50.0	48.9	98	50.3	101	48-122	3	20	ug/L	09.14.13 19:20	
1,2,4-Trichlorobenzene	<0.170	50.0	48.3	97	49.5	99	34-131	2	20	ug/L	09.14.13 19:20	
1,2,4-Trimethylbenzene	<0.140	50.0	53.1	106	53.8	108	47-139	1	20	ug/L	09.14.13 19:20	
1,2-Dibromo-3-chloropropane (DBCP)	<0.190	50.0	55.6	111	56.4	113	53-121	1	20	ug/L	09.14.13 19:20	
1,2-Dibromoethane (EDB)	<0.180	50.0	63.0	126	63.5	127	66-125	1	20	ug/L	09.14.13 19:20	X
1,2-Dichlorobenzene	<0.140	50.0	52.8	106	52.3	105	58-124	1	20	ug/L	09.14.13 19:20	
1,2-Dichloroethane	<0.180	50.0	61.1	122	59.8	120	55-141	2	20	ug/L	09.14.13 19:20	
1,2-Dichloropropane	<0.150	50.0	51.1	102	51.2	102	78-121	0	20	ug/L	09.14.13 19:20	
1,3-Dichlorobenzene	<0.170	50.0	51.7	103	51.8	104	62-120	0	20	ug/L	09.14.13 19:20	
1,4-Dichlorobenzene	<0.170	50.0	51.0	102	50.5	101	64-114	1	20	ug/L	09.14.13 19:20	
2-Butanone (MEK)	<0.280	100	114	114	114	114	50-152	0	20	ug/L	09.14.13 19:20	
2-Hexanone	<0.320	100	131	131	129	129	55-136	2	20	ug/L	09.14.13 19:20	
4-Methyl-2-pentanone (MIBK)	<0.260	100	107	107	109	109	65-132	2	20	ug/L	09.14.13 19:20	
Acetone	<0.350	100	114	114	119	119	40-140	4	20	ug/L	09.14.13 19:20	
Benzene	<0.160	50.0	48.8	98	49.1	98	77-118	1	20	ug/L	09.14.13 19:20	
Bromochloromethane	<0.200	50.0	48.6	97	50.8	102	64-130	4	20	ug/L	09.14.13 19:20	
Bromodichloromethane	<0.250	50.0	57.1	114	57.9	116	68-125	1	20	ug/L	09.14.13 19:20	
Bromoform	<0.170	50.0	48.0	96	49.6	99	53-112	3	20	ug/L	09.14.13 19:20	
Bromomethane	<0.250	50.0	40.4	81	43.0	86	63-137	6	20	ug/L	09.14.13 19:20	
Carbon disulfide	<0.260	50.0	39.5	79	41.2	82	26-147	4	20	ug/L	09.14.13 19:20	
Carbon tetrachloride	<0.330	50.0	55.4	111	54.9	110	56-138	1	20	ug/L	09.14.13 19:20	
Chlorobenzene	<0.150	50.0	53.5	107	52.9	106	71-114	1	20	ug/L	09.14.13 19:20	
Chloroethane	<0.260	50.0	38.5	77	39.2	78	60-137	2	20	ug/L	09.14.13 19:20	
Chloroform	<0.160	50.0	51.5	103	52.0	104	65-131	1	20	ug/L	09.14.13 19:20	
Chloromethane	<0.250	50.0	40.8	82	41.0	82	48-151	0	20	ug/L	09.14.13 19:20	
cis-1,2-Dichloroethene	<0.210	50.0	43.5	87	45.2	90	22-185	4	20	ug/L	09.14.13 19:20	
cis-1,3-Dichloropropene	<0.100	50.0	53.8	108	54.0	108	67-113	0	20	ug/L	09.14.13 19:20	
Cyclohexane	<0.150	50.0	38.9	78	38.9	78	61-141	0	20	ug/L	09.14.13 19:20	
Dibromochloromethane	<0.150	50.0	61.0	122	59.7	119	53-125	2	20	ug/L	09.14.13 19:20	
Dichlorodifluoromethane	<0.220	50.0	47.2	94	47.5	95	38-145	1	20	ug/L	09.14.13 19:20	
Ethylbenzene	<0.190	50.0	56.5	113	55.0	110	66-127	3	20	ug/L	09.14.13 19:20	
Isopropylbenzene	<0.150	50.0	52.7	105	53.8	108	58-127	2	20	ug/L	09.14.13 19:20	
m,p-Xylenes	<0.510	100	105	105	103	103	65-126	2	20	ug/L	09.14.13 19:20	
Methyl acetate	<0.260	50.0	47.3	95	49.8	100	65-135	5	20	ug/L	09.14.13 19:20	
Methylcyclohexane	<0.110	50.0	45.2	90	46.6	93	64-128	3	20	ug/L	09.14.13 19:20	
Methylene chloride	<0.420	50.0	44.3	89	44.9	90	63-150	1	20	ug/L	09.14.13 19:20	
o-Xylene	<0.200	50.0	50.1	100	49.3	99	64-123	2	20	ug/L	09.14.13 19:20	
Styrene	<0.180	50.0	53.5	107	52.6	105	50-133	2	20	ug/L	09.14.13 19:20	
Tetrachloroethene	<0.160	50.0	54.2	108	54.0	108	52-125	0	20	ug/L	09.14.13 19:20	
Toluene	<0.140	50.0	55.8	112	54.3	109	65-123	3	20	ug/L	09.14.13 19:20	
trans-1,2-Dichloroethene	<0.210	50.0	42.2	84	44.1	88	65-135	4	20	ug/L	09.14.13 19:20	
trans-1,3-Dichloropropene	<0.110	50.0	62.5	125	59.9	120	50-125	4	20	ug/L	09.14.13 19:20	
Trichloroethene	<0.190	50.0	53.3	107	53.8	108	65-125	1	20	ug/L	09.14.13 19:20	
Trichlorofluoromethane	<0.530	50.0	53.3	107	54.9	110	51-145	3	20	ug/L	09.14.13 19:20	
Vinyl chloride	<0.190	50.0	39.7	79	40.7	81	52-140	2	20	ug/L	09.14.13 19:20	

QC Summary 470271

Mill Creek Environmental Services

Apex Village

Analytical Method:	**VOCs by SW-846 8260B**			Prep Method:	SW5030B
Seq Number:	922734	Matrix:	Ground Water	Date Prep:	09.14.13
Parent Sample Id:	469992-004	MS Sample Id:	469992-004 S	MSD Sample Id:	469992-004 SD

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	110		110		53-159	%	09.14.13 19:20
4-Bromofluorobenzene	106		108		30-186	%	09.14.13 19:20
Toluene-D8	102		102		70-130	%	09.14.13 19:20

WO #470271.

Chain of Custody Record

Page 1 of 1

Mill Creek Environmental Services, Inc.
1818 Perimeter Rd.
Dawsonville, GA 30534
Phone: 706-579-1607
Fax: 706-265-4916

MILL CREEK ENVIRONMENTAL SERVICES

Client: Apex Village	MCES Project #: AV-1301-7
Send Report To: Mill Creek Environmental Services, Inc. 1818 Perimeter Rd. Dawsonville, GA 30534 David Payne	davidmces@windstream.net
Attn: David Payne	Acct. #:
Phone: 706-579-1607	Shipping Method: FedEx
Fax: 706-265-4916	Airbill #:
Sampled By: David Payne	Signature: [signature]
Turnaround Time: (X) Standard ( ) Rush	

Requested Parameters

Sample ID	Date	Time	Grab (G) Comp. (C)	Matrix	VOC 8260									# and type of containers: HCL	$NaHSO_4$	H_2SO_4	NaOH	MeOH	None	Remarks
MW-5	9-12-13	1540	G	GW	X									3						
MW-6	↓	1525	G	GW	X									3						
MW-7	↓	1550	G	GW	X									3						

Comments:

Relinquished By: [signature]	Date: 9-12-13	Time: 1670	Received By: [signature] 9-13-13	Date:	Time: 10:30 2.1°C
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

MCESCOC

8/24/2013

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Mill Creek Environmental Services

Date/ Time Received: 09/13/2013 10:30:00 AM

Work Order #: 470271

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : #61

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	2.1	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6 *Custody Seals Signed and dated?	**N/A**	
#7 *Chain of Custody present?	**Yes**	
#8 Sample instructions complete on Chain of Custody?	**Yes**	
#9 Any missing/extra samples?	**No**	
#10 Chain of Custody signed when relinquished/ received?	**Yes**	
#11 Chain of Custody agrees with sample label(s)?	**Yes**	
#12 Container label(s) legible and intact?	**Yes**	
#13 Sample matrix/ properties agree with Chain of Custody?	**Yes**	
#14 Samples in proper container/ bottle?	**Yes**	
#15 Samples properly preserved?	**Yes**	
#16 Sample container(s) intact?	**Yes**	
#17 Sufficient sample amount for indicated test(s)?	**Yes**	
#18 All samples received within hold time?	**Yes**	
#19 Subcontract of sample(s)?	**No**	
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	**Yes**	
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	**N/A**	
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:

Checklist completed by: Dario Lagunas Date: 09/13/2013

Checklist reviewed by: Eben Buchanan Date: 09/15/2013

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

January 07, 2014

David Payne
Mill Creek Env Services
1818 Perimeter Road
Dawsonville GA 30534

TEL: (706) 579-1607
FAX: (706) 265-4916

RE: Apex Village

Dear David Payne: Order No: 1312F57

Analytical Environmental Services, Inc. received 8 samples on 12/18/2013 11:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Mirzeta Kararic

Mirzeta Kararic
Project Manager

Revision 1/7/2014

Chain of Custody Record

1312557

Page 1 of 1

AV-1301-9

Mill Creek Environmental Services, Inc.
1818 Perimeter Rd.
Dawsonville, GA 30534
Phone: 706-579-1607
Fax: 706-265-4916

ENVIRONMENTAL SERVICES

Client: Apex Village	MCES Project #: ~~AV-1301-7~~
Send Report To: Mill Creek Environmental Services, Inc. 1818 Perimeter Rd. Dawsonville, GA 30534	
Attn: David Payne	Acct. #:
Phone: 706-579-1607	Shipping Method: FedEx
Fax: 706-265-4916	Airbill #:
Sampled By: David Payne	Signature: David Payne
Turnaround Time: (X) Standard ( ) Rush	

Requested Parameters

Sample ID	Date	Time	Grab (G) Comp. (C)	Matrix	VOC 8260	Methane/Ethane/Ethene	Fe^{2+}	Cl, SO_4, NO_3/NO_4	SO_3	# and type of containers: HCL	$NaHSO_4$	H_2SO_4	NaOH	MeOH	None	Remarks
MW-1	12-17-13	0955	G	GW	X	X	X	X	X	4					3	Field PRESERVED WITH ICE
MW-2	12-17-13	1455	G	GW	X	X	X	X	X	4					3	
MW-3	12-17-13	1245	G	GW	X	X	X	X	X	4					3	
MW-4	12-17-13	1400	G	GW	X	X	X	X	X	4					3	
MW-5	12-17-13	1145	G	GW	X	X	X	X	X	4					3	
MW-6	12-17-13	1600	G	GW	X	X	X	X	X	4					3	
MW-7	12-17-13	1700	G	GW	X	X	X	X	X	4					3	
SW-1	12-17-13	1715	G	SW	X	X	X	X	X	2					0	

Comments:

Relinquished By: David Payne	Date: 12/17/13	Time: 1745	Received By: Jan B	Date: 12/18/13	Time: 11:30
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Analytical Environmental Services, Inc

Date: 7-Jan-14

Client: Mill Creek Env Services
Project: Apex Village
Lab ID: 1312F57

Case Narrative

Only vials were received for sample ID "SW-1." The sample was analyzed according to the sample container that was received.

Ferrous Iron Analysis by Method SM 3500 Fe2:

Sample 1312F57-001 was extracted and/or analyzed outside holding time of 24 hours. David Payne was notified via phone on 12/18/13 and we proceeded with analysis.

Samples for Sulfite analysis by Method 377.1 were received and analyzed outside Method specified holding time of immediate or 15 minutes.

Analytical Environmental Services, Inc **Date:** 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	MW-1
Project Name:	Apex Village	**Collection Date:**	12/17/2013 9:55:00 AM
Lab ID:	1312F57-001	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
1,1,1-Trichloroethane	BRL		0.40	5.0	ug/L	185106	1	12/20/2013 02:31	AK
1,1,2,2-Tetrachloroethane	BRL		0.18	5.0	ug/L	185106	1	12/20/2013 02:31	AK
1,1,2-Trichloroethane	BRL		0.38	5.0	ug/L	185106	1	12/20/2013 02:31	AK
1,1-Dichloroethane	BRL		0.19	5.0	ug/L	185106	1	12/20/2013 02:31	AK
1,1-Dichloroethene	BRL		0.79	5.0	ug/L	185106	1	12/20/2013 02:31	AK
1,2,4-Trichlorobenzene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 02:31	AK
1,2-Dibromo-3-chloropropane	BRL		0.78	5.0	ug/L	185106	1	12/20/2013 02:31	AK
1,2-Dibromoethane	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 02:31	AK
1,2-Dichlorobenzene	BRL		0.27	5.0	ug/L	185106	1	12/20/2013 02:31	AK
1,2-Dichloroethane	BRL		0.22	5.0	ug/L	185106	1	12/20/2013 02:31	AK
1,2-Dichloropropane	BRL		0.29	5.0	ug/L	185106	1	12/20/2013 02:31	AK
1,3-Dichlorobenzene	BRL		0.17	5.0	ug/L	185106	1	12/20/2013 02:31	AK
1,4-Dichlorobenzene	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 02:31	AK
2-Butanone	BRL		1.3	50	ug/L	185106	1	12/20/2013 02:31	AK
2-Hexanone	BRL		0.46	10	ug/L	185106	1	12/20/2013 02:31	AK
4-Methyl-2-pentanone	BRL		0.39	10	ug/L	185106	1	12/20/2013 02:31	AK
Acetone	BRL		2.0	50	ug/L	185106	1	12/20/2013 02:31	AK
Benzene	BRL		0.41	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Bromodichloromethane	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Bromoform	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Bromomethane	BRL		0.52	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Carbon disulfide	BRL		1.5	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Carbon tetrachloride	BRL		0.53	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Chlorobenzene	BRL		0.15	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Chloroethane	BRL		0.69	10	ug/L	185106	1	12/20/2013 02:31	AK
Chloroform	BRL		0.23	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Chloromethane	BRL		0.49	10	ug/L	185106	1	12/20/2013 02:31	AK
cis-1,2-Dichloroethene	BRL		0.31	5.0	ug/L	185106	1	12/20/2013 02:31	AK
cis-1,3-Dichloropropene	BRL		0.54	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Cyclohexane	BRL		0.25	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Dibromochloromethane	BRL		0.51	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Dichlorodifluoromethane	BRL		1.2	10	ug/L	185106	1	12/20/2013 02:31	AK
Ethylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Freon-113	BRL		0.77	10	ug/L	185106	1	12/20/2013 02:31	AK
Isopropylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 02:31	AK
m,p-Xylene	BRL		0.72	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Methyl acetate	BRL		0.62	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Methyl tert-butyl ether	BRL		0.35	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Methylcyclohexane	BRL		0.70	5.0	ug/L	185106	1	12/20/2013 02:31	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	MW-1
Project Name:	Apex Village	**Collection Date:**	12/17/2013 9:55:00 AM
Lab ID:	1312F57-001	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
Methylene chloride	BRL		2.3	5.0	ug/L	185106	1	12/20/2013 02:31	AK
o-Xylene	BRL		0.42	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Styrene	BRL		0.64	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Tetrachloroethene	BRL		0.47	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Toluene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 02:31	AK
trans-1,2-Dichloroethene	BRL		0.47	5.0	ug/L	185106	1	12/20/2013 02:31	AK
trans-1,3-Dichloropropene	BRL		0.56	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Trichloroethene	1.7	J	0.38	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Trichlorofluoromethane	BRL		1.1	5.0	ug/L	185106	1	12/20/2013 02:31	AK
Vinyl chloride	BRL		0.69	2.0	ug/L	185106	1	12/20/2013 02:31	AK
Surr: 4-Bromofluorobenzene	88.2		0	66.2-120	%REC	185106	1	12/20/2013 02:31	AK
Surr: Dibromofluoromethane	105		0	79.5-121	%REC	185106	1	12/20/2013 02:31	AK
Surr: Toluene-d8	101		0	77-117	%REC	185106	1	12/20/2013 02:31	AK
Sulfite (E377.1/SM4500 SO3 B)									
Sulfite	BRL	H	2.00	2.00	mg/L	R258174	1	12/20/2013 09:00	KB
ION SCAN SW9056A									
Chloride	4.5		0.22	1.0	mg/L	R258324	1	12/18/2013 15:34	GR
Nitrate	0.84		0.14	0.25	mg/L	R258324	1	12/18/2013 15:34	GR
Nitrite	BRL		0.097	0.25	mg/L	R258324	1	12/18/2013 15:34	GR
Sulfate	BRL		0.22	1.0	mg/L	R258324	1	12/18/2013 15:34	GR
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**				
Ethane	BRL		2	9	ug/L	185199	1	12/23/2013 12:44	SH
Ethylene	BRL		1	7	ug/L	185199	1	12/23/2013 12:44	SH
Methane	BRL		1	4	ug/L	185199	1	12/23/2013 12:44	SH
Ferrous Iron SM3500-Fe-B									
Iron, as Ferrous (Fe+2)	BRL	H	0.012	0.100	mg/L	R258300	1	12/18/2013 12:45	AB

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	MW-2
Project Name:	Apex Village	**Collection Date:**	12/17/2013 2:55:00 PM
Lab ID:	1312F57-002	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
1,1,1-Trichloroethane	BRL		0.40	5.0	ug/L	185106	1	12/20/2013 03:00	AK
1,1,2,2-Tetrachloroethane	BRL		0.18	5.0	ug/L	185106	1	12/20/2013 03:00	AK
1,1,2-Trichloroethane	BRL		0.38	5.0	ug/L	185106	1	12/20/2013 03:00	AK
1,1-Dichloroethane	BRL		0.19	5.0	ug/L	185106	1	12/20/2013 03:00	AK
1,1-Dichloroethene	BRL		0.79	5.0	ug/L	185106	1	12/20/2013 03:00	AK
1,2,4-Trichlorobenzene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 03:00	AK
1,2-Dibromo-3-chloropropane	BRL		0.78	5.0	ug/L	185106	1	12/20/2013 03:00	AK
1,2-Dibromoethane	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 03:00	AK
1,2-Dichlorobenzene	BRL		0.27	5.0	ug/L	185106	1	12/20/2013 03:00	AK
1,2-Dichloroethane	BRL		0.22	5.0	ug/L	185106	1	12/20/2013 03:00	AK
1,2-Dichloropropane	BRL		0.29	5.0	ug/L	185106	1	12/20/2013 03:00	AK
1,3-Dichlorobenzene	BRL		0.17	5.0	ug/L	185106	1	12/20/2013 03:00	AK
1,4-Dichlorobenzene	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 03:00	AK
2-Butanone	BRL		1.3	50	ug/L	185106	1	12/20/2013 03:00	AK
2-Hexanone	BRL		0.46	10	ug/L	185106	1	12/20/2013 03:00	AK
4-Methyl-2-pentanone	BRL		0.39	10	ug/L	185106	1	12/20/2013 03:00	AK
Acetone	BRL		2.0	50	ug/L	185106	1	12/20/2013 03:00	AK
Benzene	BRL		0.41	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Bromodichloromethane	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Bromoform	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Bromomethane	BRL		0.52	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Carbon disulfide	BRL		1.5	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Carbon tetrachloride	BRL		0.53	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Chlorobenzene	BRL		0.15	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Chloroethane	BRL		0.69	10	ug/L	185106	1	12/20/2013 03:00	AK
Chloroform	BRL		0.23	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Chloromethane	BRL		0.49	10	ug/L	185106	1	12/20/2013 03:00	AK
cis-1,2-Dichloroethene	BRL		0.31	5.0	ug/L	185106	1	12/20/2013 03:00	AK
cis-1,3-Dichloropropene	BRL		0.54	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Cyclohexane	BRL		0.25	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Dibromochloromethane	BRL		0.51	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Dichlorodifluoromethane	BRL		1.2	10	ug/L	185106	1	12/20/2013 03:00	AK
Ethylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Freon-113	BRL		0.77	10	ug/L	185106	1	12/20/2013 03:00	AK
Isopropylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 03:00	AK
m,p-Xylene	BRL		0.72	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Methyl acetate	BRL		0.62	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Methyl tert-butyl ether	BRL		0.35	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Methylcyclohexane	BRL		0.70	5.0	ug/L	185106	1	12/20/2013 03:00	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	MW-2
Project Name:	Apex Village	**Collection Date:**	12/17/2013 2:55:00 PM
Lab ID:	1312F57-002	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
Methylene chloride	BRL		2.3	5.0	ug/L	185106	1	12/20/2013 03:00	AK
o-Xylene	BRL		0.42	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Styrene	BRL		0.64	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Tetrachloroethene	BRL		0.47	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Toluene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 03:00	AK
trans-1,2-Dichloroethene	BRL		0.47	5.0	ug/L	185106	1	12/20/2013 03:00	AK
trans-1,3-Dichloropropene	BRL		0.56	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Trichloroethene	3.4	J	0.38	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Trichlorofluoromethane	BRL		1.1	5.0	ug/L	185106	1	12/20/2013 03:00	AK
Vinyl chloride	BRL		0.69	2.0	ug/L	185106	1	12/20/2013 03:00	AK
Surr: 4-Bromofluorobenzene	91.2		0	66.2-120	%REC	185106	1	12/20/2013 03:00	AK
Surr: Dibromofluoromethane	106		0	79.5-121	%REC	185106	1	12/20/2013 03:00	AK
Surr: Toluene-d8	94.8		0	77-117	%REC	185106	1	12/20/2013 03:00	AK
Sulfite (E377.1/SM4500 SO3 B)									
Sulfite	BRL	H	2.00	2.00	mg/L	R258174	1	12/20/2013 09:00	KB
ION SCAN SW9056A									
Chloride	3.5		0.22	1.0	mg/L	R258324	1	12/18/2013 15:49	GR
Nitrate	1.5		0.14	0.25	mg/L	R258324	1	12/18/2013 15:49	GR
Nitrite	BRL		0.097	0.25	mg/L	R258324	1	12/18/2013 15:49	GR
Sulfate	0.54	J	0.22	1.0	mg/L	R258324	1	12/18/2013 15:49	GR
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**				
Ethane	BRL		2	9	ug/L	185199	1	12/23/2013 12:50	SH
Ethylene	BRL		1	7	ug/L	185199	1	12/23/2013 12:50	SH
Methane	12		1	4	ug/L	185199	1	12/23/2013 12:50	SH
Ferrous Iron SM3500-Fe-B									
Iron, as Ferrous (Fe+2)	BRL		0.012	0.100	mg/L	R258300	1	12/18/2013 12:45	AB

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	MW-3
Project Name:	Apex Village	**Collection Date:**	12/17/2013 12:45:00 PM
Lab ID:	1312F57-003	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
1,1,1-Trichloroethane	BRL		0.40	5.0	ug/L	185106	1	12/20/2013 03:28	AK
1,1,2,2-Tetrachloroethane	BRL		0.18	5.0	ug/L	185106	1	12/20/2013 03:28	AK
1,1,2-Trichloroethane	BRL		0.38	5.0	ug/L	185106	1	12/20/2013 03:28	AK
1,1-Dichloroethane	BRL		0.19	5.0	ug/L	185106	1	12/20/2013 03:28	AK
1,1-Dichloroethene	BRL		0.79	5.0	ug/L	185106	1	12/20/2013 03:28	AK
1,2,4-Trichlorobenzene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 03:28	AK
1,2-Dibromo-3-chloropropane	BRL		0.78	5.0	ug/L	185106	1	12/20/2013 03:28	AK
1,2-Dibromoethane	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 03:28	AK
1,2-Dichlorobenzene	BRL		0.27	5.0	ug/L	185106	1	12/20/2013 03:28	AK
1,2-Dichloroethane	BRL		0.22	5.0	ug/L	185106	1	12/20/2013 03:28	AK
1,2-Dichloropropane	BRL		0.29	5.0	ug/L	185106	1	12/20/2013 03:28	AK
1,3-Dichlorobenzene	BRL		0.17	5.0	ug/L	185106	1	12/20/2013 03:28	AK
1,4-Dichlorobenzene	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 03:28	AK
2-Butanone	BRL		1.3	50	ug/L	185106	1	12/20/2013 03:28	AK
2-Hexanone	BRL		0.46	10	ug/L	185106	1	12/20/2013 03:28	AK
4-Methyl-2-pentanone	BRL		0.39	10	ug/L	185106	1	12/20/2013 03:28	AK
Acetone	BRL		2.0	50	ug/L	185106	1	12/20/2013 03:28	AK
Benzene	BRL		0.41	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Bromodichloromethane	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Bromoform	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Bromomethane	BRL		0.52	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Carbon disulfide	BRL		1.5	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Carbon tetrachloride	BRL		0.53	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Chlorobenzene	BRL		0.15	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Chloroethane	BRL		0.69	10	ug/L	185106	1	12/20/2013 03:28	AK
Chloroform	BRL		0.23	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Chloromethane	BRL		0.49	10	ug/L	185106	1	12/20/2013 03:28	AK
cis-1,2-Dichloroethene	BRL		0.31	5.0	ug/L	185106	1	12/20/2013 03:28	AK
cis-1,3-Dichloropropene	BRL		0.54	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Cyclohexane	BRL		0.25	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Dibromochloromethane	BRL		0.51	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Dichlorodifluoromethane	BRL		1.2	10	ug/L	185106	1	12/20/2013 03:28	AK
Ethylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Freon-113	BRL		0.77	10	ug/L	185106	1	12/20/2013 03:28	AK
Isopropylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 03:28	AK
m,p-Xylene	BRL		0.72	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Methyl acetate	BRL		0.62	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Methyl tert-butyl ether	BRL		0.35	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Methylcyclohexane	BRL		0.70	5.0	ug/L	185106	1	12/20/2013 03:28	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	MW-3
Project Name:	Apex Village	**Collection Date:**	12/17/2013 12:45:00 PM
Lab ID:	1312F57-003	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
Methylene chloride	BRL		2.3	5.0	ug/L	185106	1	12/20/2013 03:28	AK
o-Xylene	BRL		0.42	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Styrene	BRL		0.64	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Tetrachloroethene	6.4		0.47	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Toluene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 03:28	AK
trans-1,2-Dichloroethene	BRL		0.47	5.0	ug/L	185106	1	12/20/2013 03:28	AK
trans-1,3-Dichloropropene	BRL		0.56	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Trichloroethene	1.8	J	0.38	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Trichlorofluoromethane	BRL		1.1	5.0	ug/L	185106	1	12/20/2013 03:28	AK
Vinyl chloride	BRL		0.69	2.0	ug/L	185106	1	12/20/2013 03:28	AK
Surr: 4-Bromofluorobenzene	88.7		0	66.2-120	%REC	185106	1	12/20/2013 03:28	AK
Surr: Dibromofluoromethane	105		0	79.5-121	%REC	185106	1	12/20/2013 03:28	AK
Surr: Toluene-d8	97.4		0	77-117	%REC	185106	1	12/20/2013 03:28	AK
Sulfite (E377.1/SM4500 SO3 B)									
Sulfite	BRL	H	2.00	2.00	mg/L	R258174	1	12/20/2013 09:00	KB
ION SCAN SW9056A									
Chloride	3.7		0.22	1.0	mg/L	R258324	1	12/18/2013 16:04	GR
Nitrate	2.1		0.14	0.25	mg/L	R258324	1	12/18/2013 16:04	GR
Nitrite	BRL		0.097	0.25	mg/L	R258324	1	12/18/2013 16:04	GR
Sulfate	BRL		0.22	1.0	mg/L	R258324	1	12/18/2013 16:04	GR
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**				
Ethane	BRL		2	9	ug/L	185199	1	12/23/2013 12:56	SH
Ethylene	BRL		1	7	ug/L	185199	1	12/23/2013 12:56	SH
Methane	9		1	4	ug/L	185199	1	12/23/2013 12:56	SH
Ferrous Iron SM3500-Fe-B									
Iron, as Ferrous (Fe+2)	BRL		0.012	0.100	mg/L	R258300	1	12/18/2013 12:45	AB

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc

Date: 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	MW-4
Project Name:	Apex Village	**Collection Date:**	12/17/2013 2:00:00 PM
Lab ID:	1312F57-004	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
1,1,1-Trichloroethane	BRL		0.40	5.0	ug/L	185106	1	12/20/2013 03:56	AK
1,1,2,2-Tetrachloroethane	BRL		0.18	5.0	ug/L	185106	1	12/20/2013 03:56	AK
1,1,2-Trichloroethane	BRL		0.38	5.0	ug/L	185106	1	12/20/2013 03:56	AK
1,1-Dichloroethane	BRL		0.19	5.0	ug/L	185106	1	12/20/2013 03:56	AK
1,1-Dichloroethene	BRL		0.79	5.0	ug/L	185106	1	12/20/2013 03:56	AK
1,2,4-Trichlorobenzene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 03:56	AK
1,2-Dibromo-3-chloropropane	BRL		0.78	5.0	ug/L	185106	1	12/20/2013 03:56	AK
1,2-Dibromoethane	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 03:56	AK
1,2-Dichlorobenzene	BRL		0.27	5.0	ug/L	185106	1	12/20/2013 03:56	AK
1,2-Dichloroethane	BRL		0.22	5.0	ug/L	185106	1	12/20/2013 03:56	AK
1,2-Dichloropropane	BRL		0.29	5.0	ug/L	185106	1	12/20/2013 03:56	AK
1,3-Dichlorobenzene	BRL		0.17	5.0	ug/L	185106	1	12/20/2013 03:56	AK
1,4-Dichlorobenzene	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 03:56	AK
2-Butanone	BRL		1.3	50	ug/L	185106	1	12/20/2013 03:56	AK
2-Hexanone	BRL		0.46	10	ug/L	185106	1	12/20/2013 03:56	AK
4-Methyl-2-pentanone	BRL		0.39	10	ug/L	185106	1	12/20/2013 03:56	AK
Acetone	BRL		2.0	50	ug/L	185106	1	12/20/2013 03:56	AK
Benzene	BRL		0.41	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Bromodichloromethane	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Bromoform	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Bromomethane	BRL		0.52	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Carbon disulfide	BRL		1.5	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Carbon tetrachloride	BRL		0.53	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Chlorobenzene	BRL		0.15	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Chloroethane	BRL		0.69	10	ug/L	185106	1	12/20/2013 03:56	AK
Chloroform	BRL		0.23	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Chloromethane	BRL		0.49	10	ug/L	185106	1	12/20/2013 03:56	AK
cis-1,2-Dichloroethene	BRL		0.31	5.0	ug/L	185106	1	12/20/2013 03:56	AK
cis-1,3-Dichloropropene	BRL		0.54	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Cyclohexane	BRL		0.25	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Dibromochloromethane	BRL		0.51	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Dichlorodifluoromethane	BRL		1.2	10	ug/L	185106	1	12/20/2013 03:56	AK
Ethylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Freon-113	BRL		0.77	10	ug/L	185106	1	12/20/2013 03:56	AK
Isopropylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 03:56	AK
m,p-Xylene	BRL		0.72	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Methyl acetate	BRL		0.62	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Methyl tert-butyl ether	BRL		0.35	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Methylcyclohexane	BRL		0.70	5.0	ug/L	185106	1	12/20/2013 03:56	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	MW-4
Project Name:	Apex Village	**Collection Date:**	12/17/2013 2:00:00 PM
Lab ID:	1312F57-004	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
Methylene chloride	BRL		2.3	5.0	ug/L	185106	1	12/20/2013 03:56	AK
o-Xylene	BRL		0.42	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Styrene	BRL		0.64	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Tetrachloroethene	2.1	J	0.47	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Toluene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 03:56	AK
trans-1,2-Dichloroethene	BRL		0.47	5.0	ug/L	185106	1	12/20/2013 03:56	AK
trans-1,3-Dichloropropene	BRL		0.56	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Trichloroethene	BRL		0.38	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Trichlorofluoromethane	BRL		1.1	5.0	ug/L	185106	1	12/20/2013 03:56	AK
Vinyl chloride	BRL		0.69	2.0	ug/L	185106	1	12/20/2013 03:56	AK
Surr: 4-Bromofluorobenzene	91.9		0	66.2-120	%REC	185106	1	12/20/2013 03:56	AK
Surr: Dibromofluoromethane	104		0	79.5-121	%REC	185106	1	12/20/2013 03:56	AK
Surr: Toluene-d8	92.2		0	77-117	%REC	185106	1	12/20/2013 03:56	AK
Sulfite (E377.1/SM4500 SO3 B)									
Sulfite	BRL	H	2.00	2.00	mg/L	R258174	1	12/20/2013 09:00	KB
ION SCAN SW9056A									
Chloride	8.7		0.22	1.0	mg/L	R258324	1	12/18/2013 16:19	GR
Nitrate	2.0		0.14	0.25	mg/L	R258324	1	12/18/2013 16:19	GR
Nitrite	BRL		0.097	0.25	mg/L	R258324	1	12/18/2013 16:19	GR
Sulfate	0.57	J	0.22	1.0	mg/L	R258324	1	12/18/2013 16:19	GR
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**				
Ethane	BRL		2	9	ug/L	185199	1	12/23/2013 13:27	SH
Ethylene	BRL		1	7	ug/L	185199	1	12/23/2013 13:27	SH
Methane	BRL		1	4	ug/L	185199	1	12/23/2013 13:27	SH
Ferrous Iron SM3500-Fe-B									
Iron, as Ferrous (Fe+2)	BRL		0.012	0.100	mg/L	R258300	1	12/18/2013 12:45	AB

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc

Date: 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	MW-5
Project Name:	Apex Village	**Collection Date:**	12/17/2013 11:45:00 AM
Lab ID:	1312F57-005	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
1,1,1-Trichloroethane	BRL		0.40	5.0	ug/L	185106	1	12/20/2013 04:25	AK
1,1,2,2-Tetrachloroethane	BRL		0.18	5.0	ug/L	185106	1	12/20/2013 04:25	AK
1,1,2-Trichloroethane	BRL		0.38	5.0	ug/L	185106	1	12/20/2013 04:25	AK
1,1-Dichloroethane	BRL		0.19	5.0	ug/L	185106	1	12/20/2013 04:25	AK
1,1-Dichloroethene	BRL		0.79	5.0	ug/L	185106	1	12/20/2013 04:25	AK
1,2,4-Trichlorobenzene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 04:25	AK
1,2-Dibromo-3-chloropropane	BRL		0.78	5.0	ug/L	185106	1	12/20/2013 04:25	AK
1,2-Dibromoethane	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 04:25	AK
1,2-Dichlorobenzene	BRL		0.27	5.0	ug/L	185106	1	12/20/2013 04:25	AK
1,2-Dichloroethane	BRL		0.22	5.0	ug/L	185106	1	12/20/2013 04:25	AK
1,2-Dichloropropane	BRL		0.29	5.0	ug/L	185106	1	12/20/2013 04:25	AK
1,3-Dichlorobenzene	BRL		0.17	5.0	ug/L	185106	1	12/20/2013 04:25	AK
1,4-Dichlorobenzene	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 04:25	AK
2-Butanone	BRL		1.3	50	ug/L	185106	1	12/20/2013 04:25	AK
2-Hexanone	BRL		0.46	10	ug/L	185106	1	12/20/2013 04:25	AK
4-Methyl-2-pentanone	BRL		0.39	10	ug/L	185106	1	12/20/2013 04:25	AK
Acetone	BRL		2.0	50	ug/L	185106	1	12/20/2013 04:25	AK
Benzene	BRL		0.41	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Bromodichloromethane	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Bromoform	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Bromomethane	BRL		0.52	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Carbon disulfide	BRL		1.5	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Carbon tetrachloride	BRL		0.53	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Chlorobenzene	BRL		0.15	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Chloroethane	BRL		0.69	10	ug/L	185106	1	12/20/2013 04:25	AK
Chloroform	BRL		0.23	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Chloromethane	BRL		0.49	10	ug/L	185106	1	12/20/2013 04:25	AK
cis-1,2-Dichloroethene	BRL		0.31	5.0	ug/L	185106	1	12/20/2013 04:25	AK
cis-1,3-Dichloropropene	BRL		0.54	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Cyclohexane	BRL		0.25	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Dibromochloromethane	BRL		0.51	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Dichlorodifluoromethane	BRL		1.2	10	ug/L	185106	1	12/20/2013 04:25	AK
Ethylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Freon-113	BRL		0.77	10	ug/L	185106	1	12/20/2013 04:25	AK
Isopropylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 04:25	AK
m,p-Xylene	BRL		0.72	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Methyl acetate	BRL		0.62	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Methyl tert-butyl ether	BRL		0.35	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Methylcyclohexane	BRL		0.70	5.0	ug/L	185106	1	12/20/2013 04:25	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	MW-5
Project Name:	Apex Village	**Collection Date:**	12/17/2013 11:45:00 AM
Lab ID:	1312F57-005	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
Methylene chloride	BRL		2.3	5.0	ug/L	185106	1	12/20/2013 04:25	AK
o-Xylene	BRL		0.42	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Styrene	BRL		0.64	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Tetrachloroethene	BRL		0.47	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Toluene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 04:25	AK
trans-1,2-Dichloroethene	BRL		0.47	5.0	ug/L	185106	1	12/20/2013 04:25	AK
trans-1,3-Dichloropropene	BRL		0.56	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Trichloroethene	BRL		0.38	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Trichlorofluoromethane	BRL		1.1	5.0	ug/L	185106	1	12/20/2013 04:25	AK
Vinyl chloride	BRL		0.69	2.0	ug/L	185106	1	12/20/2013 04:25	AK
Surr: 4-Bromofluorobenzene	90		0	66.2-120	%REC	185106	1	12/20/2013 04:25	AK
Surr: Dibromofluoromethane	107		0	79.5-121	%REC	185106	1	12/20/2013 04:25	AK
Surr: Toluene-d8	93.6		0	77-117	%REC	185106	1	12/20/2013 04:25	AK
Sulfite (E377.1/SM4500 SO3 B)									
Sulfite	BRL	H	2.00	2.00	mg/L	R258174	1	12/20/2013 09:00	KB
ION SCAN SW9056A									
Chloride	11		0.22	1.0	mg/L	R258235	1	12/18/2013 15:55	GR
Nitrate	BRL		0.14	0.25	mg/L	R258235	1	12/18/2013 15:55	GR
Nitrite	BRL		0.097	0.25	mg/L	R258235	1	12/18/2013 15:55	GR
Sulfate	5.6		0.22	1.0	mg/L	R258405	1	12/20/2013 22:53	GR
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**				
Ethane	BRL		2	9	ug/L	185199	1	12/23/2013 13:36	SH
Ethylene	BRL		1	7	ug/L	185199	1	12/23/2013 13:36	SH
Methane	8700		140	400	ug/L	185199	100	12/23/2013 13:45	SH
Ferrous Iron SM3500-Fe-B									
Iron, as Ferrous (Fe+2)	41.1	H	0.298	2.50	mg/L	R258300	25	12/18/2013 12:45	AB

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc

Date: 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	MW-6
Project Name:	Apex Village	**Collection Date:**	12/17/2013 4:00:00 PM
Lab ID:	1312F57-006	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
1,1,1-Trichloroethane	BRL		0.40	5.0	ug/L	185106	1	12/20/2013 04:53	AK
1,1,2,2-Tetrachloroethane	BRL		0.18	5.0	ug/L	185106	1	12/20/2013 04:53	AK
1,1,2-Trichloroethane	BRL		0.38	5.0	ug/L	185106	1	12/20/2013 04:53	AK
1,1-Dichloroethane	BRL		0.19	5.0	ug/L	185106	1	12/20/2013 04:53	AK
1,1-Dichloroethene	BRL		0.79	5.0	ug/L	185106	1	12/20/2013 04:53	AK
1,2,4-Trichlorobenzene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 04:53	AK
1,2-Dibromo-3-chloropropane	BRL		0.78	5.0	ug/L	185106	1	12/20/2013 04:53	AK
1,2-Dibromoethane	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 04:53	AK
1,2-Dichlorobenzene	BRL		0.27	5.0	ug/L	185106	1	12/20/2013 04:53	AK
1,2-Dichloroethane	BRL		0.22	5.0	ug/L	185106	1	12/20/2013 04:53	AK
1,2-Dichloropropane	BRL		0.29	5.0	ug/L	185106	1	12/20/2013 04:53	AK
1,3-Dichlorobenzene	BRL		0.17	5.0	ug/L	185106	1	12/20/2013 04:53	AK
1,4-Dichlorobenzene	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 04:53	AK
2-Butanone	BRL		1.3	50	ug/L	185106	1	12/20/2013 04:53	AK
2-Hexanone	BRL		0.46	10	ug/L	185106	1	12/20/2013 04:53	AK
4-Methyl-2-pentanone	BRL		0.39	10	ug/L	185106	1	12/20/2013 04:53	AK
Acetone	BRL		2.0	50	ug/L	185106	1	12/20/2013 04:53	AK
Benzene	BRL		0.41	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Bromodichloromethane	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Bromoform	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Bromomethane	BRL		0.52	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Carbon disulfide	BRL		1.5	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Carbon tetrachloride	BRL		0.53	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Chlorobenzene	BRL		0.15	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Chloroethane	BRL		0.69	10	ug/L	185106	1	12/20/2013 04:53	AK
Chloroform	BRL		0.23	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Chloromethane	BRL		0.49	10	ug/L	185106	1	12/20/2013 04:53	AK
cis-1,2-Dichloroethene	BRL		0.31	5.0	ug/L	185106	1	12/20/2013 04:53	AK
cis-1,3-Dichloropropene	BRL		0.54	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Cyclohexane	BRL		0.25	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Dibromochloromethane	BRL		0.51	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Dichlorodifluoromethane	BRL		1.2	10	ug/L	185106	1	12/20/2013 04:53	AK
Ethylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Freon-113	BRL		0.77	10	ug/L	185106	1	12/20/2013 04:53	AK
Isopropylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 04:53	AK
m,p-Xylene	BRL		0.72	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Methyl acetate	BRL		0.62	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Methyl tert-butyl ether	BRL		0.35	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Methylcyclohexane	BRL		0.70	5.0	ug/L	185106	1	12/20/2013 04:53	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	MW-6
Project Name:	Apex Village	**Collection Date:**	12/17/2013 4:00:00 PM
Lab ID:	1312F57-006	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
Methylene chloride	BRL		2.3	5.0	ug/L	185106	1	12/20/2013 04:53	AK
o-Xylene	BRL		0.42	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Styrene	BRL		0.64	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Tetrachloroethene	BRL		0.47	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Toluene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 04:53	AK
trans-1,2-Dichloroethene	BRL		0.47	5.0	ug/L	185106	1	12/20/2013 04:53	AK
trans-1,3-Dichloropropene	BRL		0.56	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Trichloroethene	BRL		0.38	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Trichlorofluoromethane	BRL		1.1	5.0	ug/L	185106	1	12/20/2013 04:53	AK
Vinyl chloride	BRL		0.69	2.0	ug/L	185106	1	12/20/2013 04:53	AK
Surr: 4-Bromofluorobenzene	89.7		0	66.2-120	%REC	185106	1	12/20/2013 04:53	AK
Surr: Dibromofluoromethane	109		0	79.5-121	%REC	185106	1	12/20/2013 04:53	AK
Surr: Toluene-d8	105		0	77-117	%REC	185106	1	12/20/2013 04:53	AK
Sulfite (E377.1/SM4500 SO3 B)									
Sulfite	BRL	H	2.00	2.00	mg/L	R258174	1	12/20/2013 09:00	KB
ION SCAN SW9056A									
Chloride	10		0.22	1.0	mg/L	R258235	1	12/18/2013 16:10	GR
Nitrate	BRL		0.14	0.25	mg/L	R258235	1	12/18/2013 16:10	GR
Nitrite	BRL		0.097	0.25	mg/L	R258235	1	12/18/2013 16:10	GR
Sulfate	1.3		0.22	1.0	mg/L	R258405	1	12/20/2013 19:12	GR
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**				
Ethane	BRL		2	9	ug/L	185199	1	12/23/2013 13:41	SH
Ethylene	BRL		1	7	ug/L	185199	1	12/23/2013 13:41	SH
Methane	830		14	40	ug/L	185199	10	12/23/2013 13:50	SH
Ferrous Iron SM3500-Fe-B									
Iron, as Ferrous (Fe+2)	24.6		0.298	2.50	mg/L	R258300	25	12/18/2013 12:45	AB

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	MW-7
Project Name:	Apex Village	**Collection Date:**	12/17/2013 5:00:00 PM
Lab ID:	1312F57-007	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
1,1,1-Trichloroethane	BRL		0.40	5.0	ug/L	185106	1	12/20/2013 05:22	AK
1,1,2,2-Tetrachloroethane	BRL		0.18	5.0	ug/L	185106	1	12/20/2013 05:22	AK
1,1,2-Trichloroethane	BRL		0.38	5.0	ug/L	185106	1	12/20/2013 05:22	AK
1,1-Dichloroethane	BRL		0.19	5.0	ug/L	185106	1	12/20/2013 05:22	AK
1,1-Dichloroethene	BRL		0.79	5.0	ug/L	185106	1	12/20/2013 05:22	AK
1,2,4-Trichlorobenzene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 05:22	AK
1,2-Dibromo-3-chloropropane	BRL		0.78	5.0	ug/L	185106	1	12/20/2013 05:22	AK
1,2-Dibromoethane	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 05:22	AK
1,2-Dichlorobenzene	BRL		0.27	5.0	ug/L	185106	1	12/20/2013 05:22	AK
1,2-Dichloroethane	BRL		0.22	5.0	ug/L	185106	1	12/20/2013 05:22	AK
1,2-Dichloropropane	BRL		0.29	5.0	ug/L	185106	1	12/20/2013 05:22	AK
1,3-Dichlorobenzene	BRL		0.17	5.0	ug/L	185106	1	12/20/2013 05:22	AK
1,4-Dichlorobenzene	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 05:22	AK
2-Butanone	BRL		1.3	50	ug/L	185106	1	12/20/2013 05:22	AK
2-Hexanone	BRL		0.46	10	ug/L	185106	1	12/20/2013 05:22	AK
4-Methyl-2-pentanone	BRL		0.39	10	ug/L	185106	1	12/20/2013 05:22	AK
Acetone	BRL		2.0	50	ug/L	185106	1	12/20/2013 05:22	AK
Benzene	BRL		0.41	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Bromodichloromethane	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Bromoform	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Bromomethane	BRL		0.52	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Carbon disulfide	BRL		1.5	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Carbon tetrachloride	BRL		0.53	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Chlorobenzene	BRL		0.15	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Chloroethane	BRL		0.69	10	ug/L	185106	1	12/20/2013 05:22	AK
Chloroform	BRL		0.23	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Chloromethane	BRL		0.49	10	ug/L	185106	1	12/20/2013 05:22	AK
cis-1,2-Dichloroethene	BRL		0.31	5.0	ug/L	185106	1	12/20/2013 05:22	AK
cis-1,3-Dichloropropene	BRL		0.54	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Cyclohexane	BRL		0.25	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Dibromochloromethane	BRL		0.51	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Dichlorodifluoromethane	BRL		1.2	10	ug/L	185106	1	12/20/2013 05:22	AK
Ethylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Freon-113	BRL		0.77	10	ug/L	185106	1	12/20/2013 05:22	AK
Isopropylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 05:22	AK
m,p-Xylene	BRL		0.72	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Methyl acetate	BRL		0.62	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Methyl tert-butyl ether	BRL		0.35	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Methylcyclohexane	BRL		0.70	5.0	ug/L	185106	1	12/20/2013 05:22	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	MW-7
Project Name:	Apex Village	**Collection Date:**	12/17/2013 5:00:00 PM
Lab ID:	1312F57-007	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
Methylene chloride	BRL		2.3	5.0	ug/L	185106	1	12/20/2013 05:22	AK
o-Xylene	BRL		0.42	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Styrene	BRL		0.64	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Tetrachloroethene	BRL		0.47	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Toluene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 05:22	AK
trans-1,2-Dichloroethene	BRL		0.47	5.0	ug/L	185106	1	12/20/2013 05:22	AK
trans-1,3-Dichloropropene	BRL		0.56	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Trichloroethene	BRL		0.38	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Trichlorofluoromethane	BRL		1.1	5.0	ug/L	185106	1	12/20/2013 05:22	AK
Vinyl chloride	BRL		0.69	2.0	ug/L	185106	1	12/20/2013 05:22	AK
Surr: 4-Bromofluorobenzene	89.2		0	66.2-120	%REC	185106	1	12/20/2013 05:22	AK
Surr: Dibromofluoromethane	103		0	79.5-121	%REC	185106	1	12/20/2013 05:22	AK
Surr: Toluene-d8	95.6		0	77-117	%REC	185106	1	12/20/2013 05:22	AK
Sulfite (E377.1/SM4500 SO3 B)									
Sulfite	BRL	H	2.00	2.00	mg/L	R258174	1	12/20/2013 09:00	KB
ION SCAN SW9056A									
Chloride	11		0.22	1.0	mg/L	R258235	1	12/18/2013 16:25	GR
Nitrate	BRL		0.14	0.25	mg/L	R258235	1	12/18/2013 16:25	GR
Nitrite	BRL		0.097	0.25	mg/L	R258235	1	12/18/2013 16:25	GR
Sulfate	37		0.22	1.0	mg/L	R258405	1	12/20/2013 19:27	GR
GC Analysis of Gaseous Samples SOP-RSK 175					**(RSK175)**				
Ethane	BRL		2	9	ug/L	185199	1	12/23/2013 14:35	SH
Ethylene	BRL		1	7	ug/L	185199	1	12/23/2013 14:35	SH
Methane	160		1	4	ug/L	185199	1	12/23/2013 14:35	SH
Ferrous Iron SM3500-Fe-B									
Iron, as Ferrous (Fe+2)	0.239		0.012	0.100	mg/L	R258300	1	12/18/2013 12:45	AB

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc

Date: 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	SW-1
Project Name:	Apex Village	**Collection Date:**	12/17/2013 5:15:00 PM
Lab ID:	1312F57-008	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
1,1,1-Trichloroethane	BRL		0.40	5.0	ug/L	185106	1	12/20/2013 05:50	AK
1,1,2,2-Tetrachloroethane	BRL		0.18	5.0	ug/L	185106	1	12/20/2013 05:50	AK
1,1,2-Trichloroethane	BRL		0.38	5.0	ug/L	185106	1	12/20/2013 05:50	AK
1,1-Dichloroethane	BRL		0.19	5.0	ug/L	185106	1	12/20/2013 05:50	AK
1,1-Dichloroethene	BRL		0.79	5.0	ug/L	185106	1	12/20/2013 05:50	AK
1,2,4-Trichlorobenzene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 05:50	AK
1,2-Dibromo-3-chloropropane	BRL		0.78	5.0	ug/L	185106	1	12/20/2013 05:50	AK
1,2-Dibromoethane	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 05:50	AK
1,2-Dichlorobenzene	BRL		0.27	5.0	ug/L	185106	1	12/20/2013 05:50	AK
1,2-Dichloroethane	BRL		0.22	5.0	ug/L	185106	1	12/20/2013 05:50	AK
1,2-Dichloropropane	BRL		0.29	5.0	ug/L	185106	1	12/20/2013 05:50	AK
1,3-Dichlorobenzene	BRL		0.17	5.0	ug/L	185106	1	12/20/2013 05:50	AK
1,4-Dichlorobenzene	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 05:50	AK
2-Butanone	BRL		1.3	50	ug/L	185106	1	12/20/2013 05:50	AK
2-Hexanone	BRL		0.46	10	ug/L	185106	1	12/20/2013 05:50	AK
4-Methyl-2-pentanone	BRL		0.39	10	ug/L	185106	1	12/20/2013 05:50	AK
Acetone	BRL		2.0	50	ug/L	185106	1	12/20/2013 05:50	AK
Benzene	BRL		0.41	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Bromodichloromethane	BRL		0.20	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Bromoform	BRL		0.32	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Bromomethane	BRL		0.52	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Carbon disulfide	BRL		1.5	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Carbon tetrachloride	BRL		0.53	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Chlorobenzene	BRL		0.15	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Chloroethane	BRL		0.69	10	ug/L	185106	1	12/20/2013 05:50	AK
Chloroform	BRL		0.23	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Chloromethane	BRL		0.49	10	ug/L	185106	1	12/20/2013 05:50	AK
cis-1,2-Dichloroethene	BRL		0.31	5.0	ug/L	185106	1	12/20/2013 05:50	AK
cis-1,3-Dichloropropene	BRL		0.54	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Cyclohexane	BRL		0.25	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Dibromochloromethane	BRL		0.51	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Dichlorodifluoromethane	BRL		1.2	10	ug/L	185106	1	12/20/2013 05:50	AK
Ethylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Freon-113	BRL		0.77	10	ug/L	185106	1	12/20/2013 05:50	AK
Isopropylbenzene	BRL		0.37	5.0	ug/L	185106	1	12/20/2013 05:50	AK
m,p-Xylene	BRL		0.72	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Methyl acetate	BRL		0.62	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Methyl tert-butyl ether	BRL		0.35	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Methylcyclohexane	BRL		0.70	5.0	ug/L	185106	1	12/20/2013 05:50	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 7-Jan-14

Client:	Mill Creek Env Services	**Client Sample ID:**	SW-1
Project Name:	Apex Village	**Collection Date:**	12/17/2013 5:15:00 PM
Lab ID:	1312F57-008	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
Methylene chloride	BRL		2.3	5.0	ug/L	185106	1	12/20/2013 05:50	AK
o-Xylene	BRL		0.42	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Styrene	BRL		0.64	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Tetrachloroethene	BRL		0.47	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Toluene	BRL		0.30	5.0	ug/L	185106	1	12/20/2013 05:50	AK
trans-1,2-Dichloroethene	BRL		0.47	5.0	ug/L	185106	1	12/20/2013 05:50	AK
trans-1,3-Dichloropropene	BRL		0.56	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Trichloroethene	BRL		0.38	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Trichlorofluoromethane	BRL		1.1	5.0	ug/L	185106	1	12/20/2013 05:50	AK
Vinyl chloride	BRL		0.69	2.0	ug/L	185106	1	12/20/2013 05:50	AK
Surr: 4-Bromofluorobenzene	91.3		0	66.2-120	%REC	185106	1	12/20/2013 05:50	AK
Surr: Dibromofluoromethane	104		0	79.5-121	%REC	185106	1	12/20/2013 05:50	AK
Surr: Toluene-d8	97.1		0	77-117	%REC	185106	1	12/20/2013 05:50	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Mill Work Order Number 1312F57

Checklist completed by [signature] 12/18/13
Signature Date

Carrier name: FedEx ✓ UPS __ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ✓ No __

Cooler #1 3.1° Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ tmj initials No ✓

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ tmj No ✓

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted __ Yes ✓ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by MJ

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Client: Mill Creek Env Services
Project: Apex Village
Lab Order: 1312F57

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1312F57-001A	MW-1	12/17/2013 9:55:00AM	Groundwater	GC Analysis of Gaseous Samples		12/23/2013	12/23/2013
1312F57-001B	MW-1	12/17/2013 9:55:00AM	Groundwater	TCL VOLATILE ORGANICS		12/19/2013	12/20/2013
1312F57-001C	MW-1	12/17/2013 9:55:00AM	Groundwater	Ferrous Iron			12/18/2013
1312F57-001D	MW-1	12/17/2013 9:55:00AM	Groundwater	ION SCAN			12/18/2013
1312F57-001E	MW-1	12/17/2013 9:55:00AM	Groundwater	SULFITE			12/20/2013
1312F57-002A	MW-2	12/17/2013 2:55:00PM	Groundwater	GC Analysis of Gaseous Samples		12/23/2013	12/23/2013
1312F57-002B	MW-2	12/17/2013 2:55:00PM	Groundwater	TCL VOLATILE ORGANICS		12/19/2013	12/20/2013
1312F57-002C	MW-2	12/17/2013 2:55:00PM	Groundwater	Ferrous Iron			12/18/2013
1312F57-002D	MW-2	12/17/2013 2:55:00PM	Groundwater	ION SCAN			12/18/2013
1312F57-002E	MW-2	12/17/2013 2:55:00PM	Groundwater	SULFITE			12/20/2013
1312F57-003A	MW-3	12/17/2013 12:45:00PM	Groundwater	GC Analysis of Gaseous Samples		12/23/2013	12/23/2013
1312F57-003B	MW-3	12/17/2013 12:45:00PM	Groundwater	TCL VOLATILE ORGANICS		12/19/2013	12/20/2013
1312F57-003C	MW-3	12/17/2013 12:45:00PM	Groundwater	Ferrous Iron			12/18/2013
1312F57-003D	MW-3	12/17/2013 12:45:00PM	Groundwater	ION SCAN			12/18/2013
1312F57-003E	MW-3	12/17/2013 12:45:00PM	Groundwater	SULFITE			12/20/2013
1312F57-004A	MW-4	12/17/2013 2:00:00PM	Groundwater	GC Analysis of Gaseous Samples		12/23/2013	12/23/2013
1312F57-004B	MW-4	12/17/2013 2:00:00PM	Groundwater	TCL VOLATILE ORGANICS		12/19/2013	12/20/2013
1312F57-004C	MW-4	12/17/2013 2:00:00PM	Groundwater	Ferrous Iron			12/18/2013
1312F57-004D	MW-4	12/17/2013 2:00:00PM	Groundwater	ION SCAN			12/18/2013
1312F57-004E	MW-4	12/17/2013 2:00:00PM	Groundwater	SULFITE			12/20/2013
1312F57-005A	MW-5	12/17/2013 11:45:00AM	Groundwater	GC Analysis of Gaseous Samples		12/23/2013	12/23/2013
1312F57-005B	MW-5	12/17/2013 11:45:00AM	Groundwater	TCL VOLATILE ORGANICS		12/19/2013	12/20/2013
1312F57-005C	MW-5	12/17/2013 11:45:00AM	Groundwater	Ferrous Iron			12/18/2013
1312F57-005D	MW-5	12/17/2013 11:45:00AM	Groundwater	ION SCAN			12/18/2013
1312F57-005D	MW-5	12/17/2013 11:45:00AM	Groundwater	ION SCAN			12/20/2013
1312F57-005E	MW-5	12/17/2013 11:45:00AM	Groundwater	SULFITE			12/20/2013
1312F57-006A	MW-6	12/17/2013 4:00:00PM	Groundwater	GC Analysis of Gaseous Samples		12/23/2013	12/23/2013
1312F57-006B	MW-6	12/17/2013 4:00:00PM	Groundwater	TCL VOLATILE ORGANICS		12/19/2013	12/20/2013
1312F57-006C	MW-6	12/17/2013 4:00:00PM	Groundwater	Ferrous Iron			12/18/2013

Client: Mill Creek Env Services
Project: Apex Village
Lab Order: 1312F57

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1312F57-006D	MW-6	12/17/2013 4:00:00PM	Groundwater	ION SCAN			12/18/2013
1312F57-006D	MW-6	12/17/2013 4:00:00PM	Groundwater	ION SCAN			12/20/2013
1312F57-006E	MW-6	12/17/2013 4:00:00PM	Groundwater	SULFITE			12/20/2013
1312F57-007A	MW-7	12/17/2013 5:00:00PM	Groundwater	GC Analysis of Gaseous Samples		12/23/2013	12/23/2013
1312F57-007B	MW-7	12/17/2013 5:00:00PM	Groundwater	TCL VOLATILE ORGANICS		12/19/2013	12/20/2013
1312F57-007C	MW-7	12/17/2013 5:00:00PM	Groundwater	Ferrous Iron			12/18/2013
1312F57-007D	MW-7	12/17/2013 5:00:00PM	Groundwater	ION SCAN			12/18/2013
1312F57-007D	MW-7	12/17/2013 5:00:00PM	Groundwater	ION SCAN			12/20/2013
1312F57-007E	MW-7	12/17/2013 5:00:00PM	Groundwater	SULFITE			12/20/2013
1312F57-008A	SW-1	12/17/2013 5:15:00PM	Surface Water	TCL VOLATILE ORGANICS		12/19/2013	12/20/2013

Client: Mill Creek Env Services
Project Name: Apex Village
Workorder: 1312F57

ANALYTICAL QC SUMMARY REPORT

BatchID: 185106

Sample ID: **MB-185106** Client ID: Units: **ug/L** Prep Date: **12/19/2013** Run No: **258162**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **185106** Analysis Date: **12/19/2013** Seq No: **5424679**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Mill Creek Env Services
Project Name: Apex Village
Workorder: 1312F57

ANALYTICAL QC SUMMARY REPORT

BatchID: 185106

Sample ID: **MB-185106** Client ID: Units: **ug/L** Prep Date: **12/19/2013** Run No: **258162**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **185106** Analysis Date: **12/19/2013** Seq No: **5424679**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	2.200	5.0									J
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	47.32	0	50.00		94.6	66.2	120				
Surr: Dibromofluoromethane	51.08	0	50.00		102	79.5	121				
Surr: Toluene-d8	46.90	0	50.00		93.8	77	117				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Mill Creek Env Services
Project Name: Apex Village
Workorder: 1312F57

ANALYTICAL QC SUMMARY REPORT

BatchID: 185106

Sample ID: **LCS-185106** Client ID: Units: **ug/L** Prep Date: **12/19/2013** Run No: **258162**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **185106** Analysis Date: **12/19/2013** Seq No: **5424681**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	53.31	5.0	50.00		107	63.1	140				
Benzene	46.50	5.0	50.00		93.0	74.2	129				
Chlorobenzene	53.86	5.0	50.00		108	70	129				
Toluene	52.31	5.0	50.00		105	74.2	129				
Trichloroethene	58.88	5.0	50.00	2.200	113	71.2	135				
Surr: 4-Bromofluorobenzene	53.12	0	50.00		106	66.2	120				
Surr: Dibromofluoromethane	54.61	0	50.00		109	79.5	121				
Surr: Toluene-d8	50.59	0	50.00		101	77	117				

Sample ID: **1312G30-003AMS** Client ID: Units: **ug/L** Prep Date: **12/19/2013** Run No: **258429**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **185106** Analysis Date: **12/24/2013** Seq No: **5431561**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	6161	500	5000	3.500	123	60.2	159				
Benzene	6118	500	5000	159.7	119	70.2	138				
Chlorobenzene	5573	500	5000		111	70.1	133				
Toluene	11960	500	5000	4154	156	70	139				S
Trichloroethene	5573	500	5000	28.85	111	70.1	144				
Surr: 4-Bromofluorobenzene	5278	0	5000		106	66.2	120				
Surr: Dibromofluoromethane	5218	0	5000		104	79.5	121				
Surr: Toluene-d8	5028	0	5000		101	77	117				

Sample ID: **1312G30-003AMSD** Client ID: Units: **ug/L** Prep Date: **12/19/2013** Run No: **258429**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **185106** Analysis Date: **12/24/2013** Seq No: **5431562**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	5544	500	5000	3.500	111	60.2	159	6161	10.5	19.2	
Benzene	5643	500	5000	159.7	110	70.2	138	6118	8.08	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Mill Creek Env Services
Project Name: Apex Village
Workorder: 1312F57

ANALYTICAL QC SUMMARY REPORT

BatchID: 185106

Sample ID: **1312G30-003AMSD** Client ID: Units: **ug/L** Prep Date: **12/19/2013** Run No: **258429**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **185106** Analysis Date: **12/24/2013** Seq No: **5431562**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	5444	500	5000		109	70.1	133	5573	2.34	20	
Toluene	10840	500	5000	4154	134	70	139	11960	9.82	20	
Trichloroethene	5290	500	5000	28.85	105	70.1	144	5573	5.21	20	
Surr: 4-Bromofluorobenzene	5309	0	5000		106	66.2	120	5278	0	0	
Surr: Dibromofluoromethane	5242	0	5000		105	79.5	121	5218	0	0	
Surr: Toluene-d8	4944	0	5000		98.9	77	117	5028	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Mill Creek Env Services
Project Name: Apex Village
Workorder: 1312F57

ANALYTICAL QC SUMMARY REPORT

BatchID: 185199

Sample ID: **MB-185199** Client ID: Units: **ug/L** Prep Date: **12/23/2013** Run No: **258387**
SampleType: **MBLK** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **185199** Analysis Date: **12/23/2013** Seq No: **5429211**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	BRL	9									
Ethylene	BRL	7									
Methane	BRL	4									

Sample ID: **LCS-185199** Client ID: Units: **ug/L** Prep Date: **12/23/2013** Run No: **258387**
SampleType: **LCS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **185199** Analysis Date: **12/23/2013** Seq No: **5429214**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	99.76	9	200.0		49.9	41.6	115				
Ethylene	67.07	7	200.0		33.5	26.9	115				
Methane	106.5	4	200.0		53.3	45.2	115				

Sample ID: **LCSD-185199** Client ID: Units: **ug/L** Prep Date: **12/23/2013** Run No: **258387**
SampleType: **LCSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **185199** Analysis Date: **12/23/2013** Seq No: **5429218**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	99.96	9	200.0		50.0	41.6	115	99.76	0.203	20	
Ethylene	67.24	7	200.0		33.6	26.9	115	67.07	0.259	20	
Methane	107.0	4	200.0		53.5	45.2	115	106.5	0.490	20	

Sample ID: **1312G64-015BMS** Client ID: Units: **ug/L** Prep Date: **12/23/2013** Run No: **258387**
SampleType: **MS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **185199** Analysis Date: **12/23/2013** Seq No: **5429332**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	98.71	9	200.0		49.4	40.1	115				
Ethylene	65.93	7	200.0		33.0	24.5	115				
Methane	102.9	4	200.0		51.4	41.1	115				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Mill Creek Env Services
Project Name: Apex Village
Workorder: 1312F57

ANALYTICAL QC SUMMARY REPORT

BatchID: 185199

Sample ID: **1312G64-015BMSD** Client ID: Units: **ug/L** Prep Date: **12/23/2013** Run No: **258387**
SampleType: **MSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **185199** Analysis Date: **12/23/2013** Seq No: **5429333**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	98.22	9	200.0		49.1	40.1	115	98.71	0.502	20	
Ethylene	65.52	7	200.0		32.8	24.5	115	65.93	0.628	20	
Methane	103.4	4	200.0		51.7	41.1	115	102.9	0.572	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Mill Creek Env Services
Project Name: Apex Village
Workorder: 1312F57

ANALYTICAL QC SUMMARY REPORT

BatchID: **R258174**

Sample ID: **MB-R258174** Client ID: Units: **mg/L** Prep Date: Run No: **258174**
SampleType: **MBLK** TestCode: **Sulfite (E377.1/SM4500 SO3 B)** BatchID: **R258174** Analysis Date: **12/20/2013** Seq No: **5424840**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfite	BRL	2.00									

Sample ID: **LCS-R258174** Client ID: Units: **mg/L** Prep Date: Run No: **258174**
SampleType: **LCS** TestCode: **Sulfite (E377.1/SM4500 SO3 B)** BatchID: **R258174** Analysis Date: **12/20/2013** Seq No: **5424841**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfite	46.50	2.00	50.00		93.0	70	130				

Sample ID: **1312F57-001EDUP** Client ID: **MW-1** Units: **mg/L** Prep Date: Run No: **258174**
SampleType: **DUP** TestCode: **Sulfite (E377.1/SM4500 SO3 B)** BatchID: **R258174** Analysis Date: **12/20/2013** Seq No: **5424850**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfite	BRL	2.00						0	0	20	H

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Mill Creek Env Services
Project Name: Apex Village
Workorder: 1312F57

ANALYTICAL QC SUMMARY REPORT

BatchID: **R258235**

Sample ID: **MB-R258235** Client ID: Units: **mg/L** Prep Date: Run No: **258235**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R258235** Analysis Date: **12/18/2013** Seq No: **5426107**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	1.0									
Nitrate	BRL	0.25									
Nitrite	BRL	0.25									

Sample ID: **LCS-R258235** Client ID: Units: **mg/L** Prep Date: Run No: **258235**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R258235** Analysis Date: **12/18/2013** Seq No: **5426110**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	10.82	1.0	10.00		108	90	110				
Nitrate	5.268	0.25	5.000		105	90	110				
Nitrite	5.230	0.25	5.000		105	90	110				

Sample ID: **1312G00-001AMS** Client ID: Units: **mg/L** Prep Date: Run No: **258235**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R258235** Analysis Date: **12/18/2013** Seq No: **5426126**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	18.51	1.0	10.00	10.15	83.6	90	110				S
Nitrate	5.818	0.25	5.000	0.5691	105	90	110				
Nitrite	5.091	0.25	5.000		102	90	110				

Sample ID: **1312G00-001AMSD** Client ID: Units: **mg/L** Prep Date: Run No: **258235**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R258235** Analysis Date: **12/18/2013** Seq No: **5426129**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	18.45	1.0	10.00	10.15	82.9	90	110	18.51	0.367	20	S
Nitrate	5.851	0.25	5.000	0.5691	106	90	110	5.818	0.576	20	
Nitrite	5.227	0.25	5.000		105	90	110	5.091	2.63	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Mill Creek Env Services
Project Name: Apex Village
Workorder: 1312F57

ANALYTICAL QC SUMMARY REPORT

BatchID: **R258300**

Sample ID: **MB-R258300** Client ID: Units: **mg/L** Prep Date: Run No: **258300**
SampleType: **MBLK** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R258300** Analysis Date: **12/18/2013** Seq No: **5427276**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100									

Sample ID: **LCS-R258300** Client ID: Units: **mg/L** Prep Date: Run No: **258300**
SampleType: **LCS** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R258300** Analysis Date: **12/18/2013** Seq No: **5427277**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5206	0.100	0.5000		104	85	115				

Sample ID: **1312F57-001CMS** Client ID: **MW-1** Units: **mg/L** Prep Date: Run No: **258300**
SampleType: **MS** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R258300** Analysis Date: **12/18/2013** Seq No: **5427286**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5148	0.100	0.5000		103	80	120				H

Sample ID: **1312F57-001CMSD** Client ID: **MW-1** Units: **mg/L** Prep Date: Run No: **258300**
SampleType: **MSD** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R258300** Analysis Date: **12/18/2013** Seq No: **5427289**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5263	0.100	0.5000		105	80	120	0.5148	2.21	30	H

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Mill Creek Env Services
Project Name: Apex Village
Workorder: 1312F57

ANALYTICAL QC SUMMARY REPORT

BatchID: **R258324**

Sample ID: **MB-R258324** Client ID: Units: **mg/L** Prep Date: Run No: **258324**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R258324** Analysis Date: **12/18/2013** Seq No: **5427880**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	1.0									
Nitrate	BRL	0.25									
Nitrite	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R258324** Client ID: Units: **mg/L** Prep Date: Run No: **258324**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R258324** Analysis Date: **12/18/2013** Seq No: **5427871**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	5.033	1.0	5.000		101	90	110				
Nitrate	4.907	0.25	5.000		98.1	90	110				
Nitrite	4.788	0.25	5.000		95.8	90	110				
Sulfate	23.71	1.0	25.00		94.8	90	110				

Sample ID: **1312F57-002DMS** Client ID: **MW-2** Units: **mg/L** Prep Date: Run No: **258324**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R258324** Analysis Date: **12/18/2013** Seq No: **5427966**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	8.378	1.0	5.000	3.505	97.5	90	110				
Nitrate	6.361	0.25	5.000	1.484	97.5	90	110				
Nitrite	5.125	0.25	5.000		103	90	110				
Sulfate	22.66	1.0	25.00	0.5374	88.5	90	110				S

Sample ID: **1312F57-002DMSD** Client ID: **MW-2** Units: **mg/L** Prep Date: Run No: **258324**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R258324** Analysis Date: **12/18/2013** Seq No: **5427967**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	8.487	1.0	5.000	3.505	99.6	90	110	8.378	1.29	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc

Date: 7-Jan-14

Client: Mill Creek Env Services
Project Name: Apex Village
Workorder: 1312F57

ANALYTICAL QC SUMMARY REPORT

BatchID: R258324

Sample ID: **1312F57-002DMSD** Client ID: **MW-2** Units: **mg/L** Prep Date: Run No: **258324**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R258324** Analysis Date: **12/18/2013** Seq No: **5427967**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	6.402	0.25	5.000	1.484	98.4	90	110	6.361	0.655	20	
Nitrite	5.111	0.25	5.000		102	90	110	5.125	0.284	20	
Sulfate	22.96	1.0	25.00	0.5374	89.7	90	110	22.66	1.30	20	S

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Mill Creek Env Services
Project Name: Apex Village
Workorder: 1312F57

ANALYTICAL QC SUMMARY REPORT

BatchID: R258405

Sample ID: **MB-R258405** Client ID: Units: **mg/L** Prep Date: Run No: **258405**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R258405** Analysis Date: **12/20/2013** Seq No: **5429496**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	BRL	1.0									

Sample ID: **LCS-R258405** Client ID: Units: **mg/L** Prep Date: Run No: **258405**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R258405** Analysis Date: **12/20/2013** Seq No: **5429498**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	24.66	1.0	25.00		98.6	90	110				

Sample ID: **1312H84-001AMS** Client ID: Units: **mg/L** Prep Date: Run No: **258405**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R258405** Analysis Date: **12/20/2013** Seq No: **5429505**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	148.4	5.0	125.0	21.98	101	90	110				

Sample ID: **1312I37-002AMS** Client ID: Units: **mg/L** Prep Date: Run No: **258405**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R258405** Analysis Date: **12/20/2013** Seq No: **5429529**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	32.83	1.0	25.00	6.873	104	90	110				

Sample ID: **1312H84-001AMSD** Client ID: Units: **mg/L** Prep Date: Run No: **258405**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R258405** Analysis Date: **12/20/2013** Seq No: **5429509**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	150.0	5.0	125.0	21.98	102	90	110	148.4	1.03	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

APPENDIX M

SLUG TEST INPUT DATA/RESULTS
AND SEEPAGE VELOCITY CALCULATIONS

Seepage Velocity Calculations

Apex Village
548 Williams Street
Apex, Wake County, North Carolina 27501
North Carolina IHSB Site ID: NONCD0002646
December 17, 2013 Groundwater Gauging Event

Vs = seepage velocity
Vs = k*i/Ne

Where:

k = hydraulic conductivity
Average k = 2.45×10^{-4} cm/sec
Obtained from slug tests, Mill Creek Environmental Services Hydrogeologic Assessment December 18, 2013.

Ne = effective porosity
0.15 Conservative estimate for sandy silty clay.

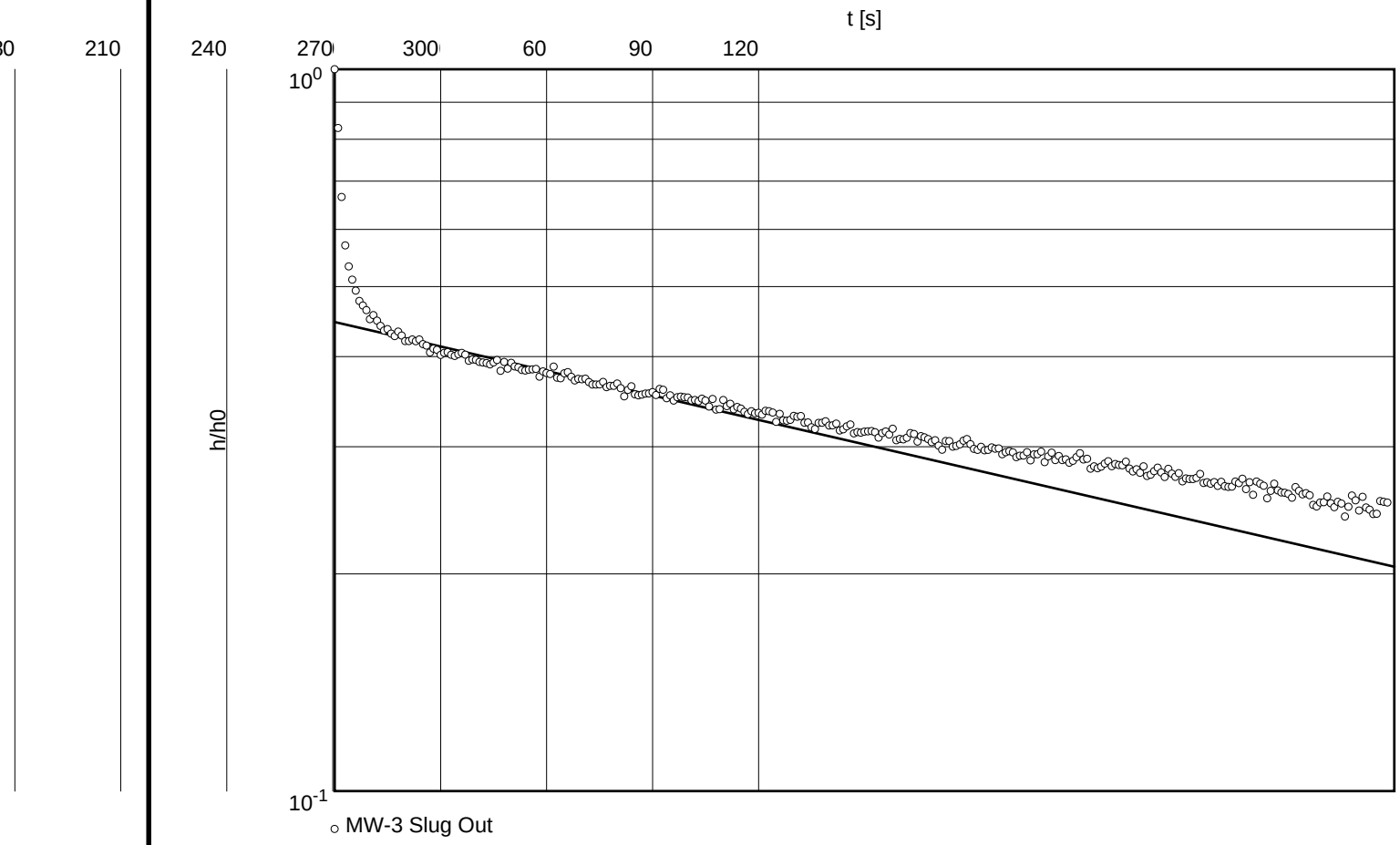
i = hydraulic gradient

MW-1 to MW-6 WL difference 8.83 ft / distance 504 ft = 0.0175 ft/ft

Vs = 2.45×10^{-4} cm/sec * 0.0175 ft/ft / 0.15 = 2.86×10^{-5} cm/sec = 29.60 ft/year

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-3	



Hydraulic conductivity [cm/s]: 1.84×10^{-4}

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-3	MW-3 Slug Out

Static water level: 290.2 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
1	0	334.2	44.0
2	1	326.7	36.5
3	2	319.5	29.3
4	3	315.3	25.1
5	4	313.6	23.5
6	5	312.7	22.5
7	6	311.9	21.7
8	7	311.2	21.0
9	8	310.9	20.7
10	9	310.6	20.4
11	10	310.0	19.8
12	11	310.3	20.1
13	12	309.9	19.7
14	13	309.6	19.4
15	14	309.3	19.1
16	15	309.4	19.2
17	16	309.1	18.9
18	17	309.0	18.8
19	18	309.2	19.1
20	19	309.0	18.8
21	20	308.7	18.5
22	21	308.7	18.5
23	22	308.8	18.6
24	23	308.7	18.5
25	24	308.8	18.6
26	25	308.5	18.3
27	26	308.4	18.2
28	27	308.0	17.8
29	28	308.2	18.1
30	29	308.2	18.0
31	30	307.9	17.7
32	31	308.0	17.8
33	32	308.0	17.9
34	33	307.9	17.7
35	34	307.8	17.6
36	35	307.9	17.7
37	36	308.0	17.8
38	37	307.9	17.7
39	38	307.5	17.4
40	39	307.6	17.4
41	40	307.6	17.4
42	41	307.5	17.3
43	42	307.4	17.3
44	43	307.4	17.2
45	44	307.3	17.2
46	45	307.4	17.3
47	46	307.6	17.4
48	47	307.0	16.8
49	48	307.5	17.3
50	49	307.1	16.9

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-3	MW-3 Slug Out

Static water level: 290.2 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
51	50	307.4	17.3
52	51	307.2	17.1
53	52	307.2	17.0
54	53	307.0	16.9
55	54	307.0	16.8
56	55	307.1	16.9
57	56	307.1	16.9
58	57	307.1	16.9
59	58	306.7	16.5
60	59	307.0	16.8
61	60	306.9	16.7
62	61	306.8	16.7
63	62	307.2	17.0
64	63	306.6	16.5
65	64	306.6	16.4
66	65	306.9	16.7
67	66	306.9	16.7
68	67	306.7	16.5
69	68	306.5	16.3
70	69	306.6	16.4
71	70	306.5	16.4
72	71	306.6	16.4
73	72	306.4	16.2
74	73	306.3	16.1
75	74	306.3	16.1
76	75	306.3	16.1
77	76	306.4	16.2
78	77	306.1	16.0
79	78	306.2	16.0
80	79	306.2	16.0
81	80	306.3	16.2
82	81	306.1	15.9
83	82	305.7	15.5
84	83	306.0	15.8
85	84	306.2	16.0
86	85	305.8	15.6
87	86	305.7	15.6
88	87	305.8	15.6
89	88	305.8	15.6
90	89	305.8	15.7
91	90	305.9	15.7
92	91	305.7	15.6
93	92	306.0	15.9
94	93	306.0	15.8
95	94	305.6	15.4
96	95	305.7	15.6
97	96	305.5	15.3
98	97	305.6	15.5
99	98	305.7	15.5
100	99	305.6	15.5

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-3	MW-3 Slug Out

Static water level: 290.2 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
101	100	305.6	15.4
102	101	305.5	15.3
103	102	305.5	15.3
104	103	305.4	15.3
105	104	305.6	15.4
106	105	305.5	15.3
107	106	305.2	15.0
108	107	305.5	15.4
109	108	305.0	14.9
110	109	305.1	14.9
111	110	305.5	15.3
112	111	305.2	15.0
113	112	305.3	15.1
114	113	305.0	14.9
115	114	305.2	15.0
116	115	305.1	14.9
117	116	304.9	14.8
118	117	304.8	14.6
119	118	305.0	14.8
120	119	304.9	14.7
121	120	304.9	14.7
122	121	304.8	14.6
123	122	305.0	14.8
124	123	305.0	14.8
125	124	304.9	14.7
126	125	304.5	14.3
127	126	304.8	14.7
128	127	304.5	14.4
129	128	304.5	14.3
130	129	304.6	14.4
131	130	304.7	14.6
132	131	304.7	14.5
133	132	304.7	14.6
134	133	304.4	14.3
135	134	304.4	14.3
136	135	304.2	14.1
137	136	304.1	14.0
138	137	304.4	14.2
139	138	304.4	14.3
140	139	304.5	14.3
141	140	304.3	14.1
142	141	304.3	14.1
143	142	304.4	14.2
144	143	304.1	13.9
145	144	304.1	14.0
146	145	304.3	14.1
147	146	304.3	14.2
148	147	303.9	13.8
149	148	304.0	13.8
150	149	304.0	13.8

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-3	MW-3 Slug Out

Static water level: 290.2 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
151	150	304.0	13.9
152	151	304.0	13.9
153	152	304.1	13.9
154	153	304.0	13.8
155	154	303.8	13.6
156	155	304.0	13.8
157	156	304.0	13.9
158	157	303.9	13.7
159	158	304.2	14.0
160	159	303.7	13.5
161	160	303.7	13.5
162	161	303.7	13.5
163	162	303.8	13.6
164	163	304.0	13.8
165	164	303.9	13.8
166	165	303.6	13.4
167	166	303.8	13.7
168	167	303.8	13.6
169	168	303.7	13.5
170	169	303.6	13.4
171	170	303.7	13.5
172	171	303.4	13.3
173	172	303.3	13.1
174	173	303.6	13.5
175	174	303.6	13.4
176	175	303.4	13.2
177	176	303.4	13.2
178	177	303.5	13.3
179	178	303.6	13.5
180	179	303.7	13.5
181	180	303.5	13.3
182	181	303.3	13.1
183	182	303.2	13.1
184	183	303.4	13.2
185	184	303.2	13.1
186	185	303.2	13.1
187	186	303.3	13.2
188	187	303.3	13.1
189	188	303.3	13.1
190	189	303.1	12.9
191	190	303.1	13.0
192	191	303.2	13.0
193	192	303.1	13.0
194	193	302.9	12.8
195	194	303.0	12.8
196	195	303.0	12.8
197	196	303.1	13.0
198	197	302.8	12.6
199	198	303.1	12.9
200	199	303.1	12.9

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-3	MW-3 Slug Out

Static water level: 290.2 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
201	200	303.2	13.0
202	201	302.7	12.6
203	202	303.0	12.8
204	203	303.1	13.0
205	204	302.8	12.7
206	205	303.0	12.8
207	206	302.8	12.7
208	207	302.9	12.7
209	208	302.7	12.5
210	209	302.8	12.6
211	210	302.9	12.8
212	211	303.1	12.9
213	212	302.8	12.7
214	213	302.9	12.7
215	214	302.5	12.3
216	215	302.6	12.4
217	216	302.5	12.3
218	217	302.6	12.4
219	218	302.7	12.5
220	219	302.8	12.6
221	220	302.6	12.4
222	221	302.7	12.5
223	222	302.6	12.5
224	223	302.6	12.4
225	224	302.8	12.6
226	225	302.5	12.3
227	226	302.4	12.2
228	227	302.5	12.3
229	228	302.3	12.2
230	229	302.6	12.4
231	230	302.2	12.0
232	231	302.3	12.1
233	232	302.4	12.2
234	233	302.5	12.4
235	234	302.3	12.2
236	235	302.2	12.0
237	236	302.5	12.3
238	237	302.3	12.1
239	238	302.2	12.0
240	239	302.3	12.1
241	240	302.0	11.8
242	241	302.1	11.9
243	242	302.1	11.9
244	243	302.1	11.9
245	244	302.1	12.0
246	245	302.3	12.1
247	246	301.9	11.8
248	247	302.0	11.8
249	248	301.9	11.7
250	249	302.0	11.8

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

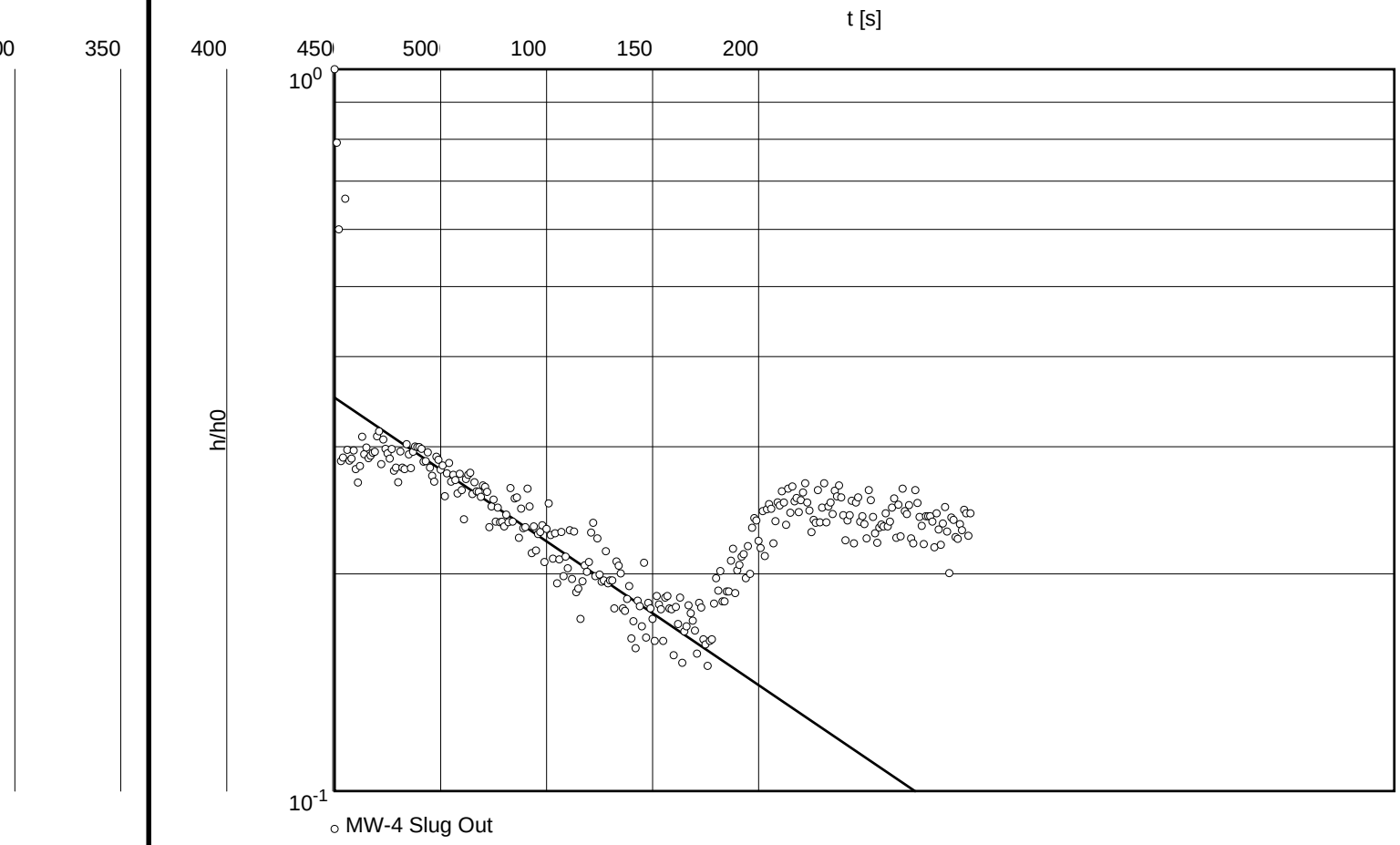
Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-3	MW-3 Slug Out

Static water level: 290.2 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
251	250	301.8	11.7
252	251	302.0	11.8
253	252	301.8	11.6
254	253	301.8	11.6
255	254	301.8	11.6
256	255	302.0	11.8
257	256	301.9	11.8
258	257	302.1	11.9
259	258	301.7	11.5
260	259	302.0	11.8
261	260	301.5	11.3
262	261	302.0	11.8
263	262	301.9	11.7
264	263	301.8	11.7
265	264	301.4	11.2
266	265	301.6	11.5
267	266	301.9	11.7
268	267	301.7	11.5
269	268	301.6	11.4
270	269	301.6	11.4
271	270	301.5	11.4
272	271	301.4	11.2
273	272	301.8	11.6
274	273	301.6	11.5
275	274	301.5	11.3
276	275	301.6	11.4
277	276	301.5	11.3
278	277	301.1	11.0
279	278	301.1	10.9
280	279	301.2	11.1
281	280	301.2	11.1
282	281	301.4	11.3
283	282	301.2	11.0
284	283	301.1	10.9
285	284	301.2	11.1
286	285	301.2	11.0
287	286	300.7	10.6
288	287	301.1	10.9
289	288	301.5	11.3
290	289	301.3	11.1
291	290	300.9	10.8
292	291	301.4	11.3
293	292	301.0	10.9
294	293	301.0	10.8
295	294	300.8	10.7
296	295	300.8	10.7
297	296	301.3	11.1
298	297	301.2	11.1
299	298	301.2	11.1

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-4	



Hydraulic conductivity [cm/s]: 8.92×10^{-5}

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-4	MW-4 Slug Out

Static water level: 210.3 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
1	0	229.3	19.0
2	1	225.3	15.0
3	2	221.7	11.4
4	3	215.7	5.4
5	4	215.8	5.5
6	5	222.9	12.6
7	6	215.9	5.6
8	7	215.7	5.4
9	8	215.8	5.5
10	9	215.9	5.6
11	10	215.6	5.3
12	11	215.4	5.1
13	12	215.7	5.4
14	13	216.2	5.9
15	14	215.9	5.6
16	15	216.0	5.7
17	16	215.8	5.5
18	17	215.8	5.5
19	18	215.9	5.6
20	19	215.9	5.6
21	20	216.2	5.9
22	21	216.3	6.0
23	22	215.7	5.4
24	23	216.1	5.8
25	24	216.0	5.7
26	25	215.9	5.6
27	26	215.8	5.5
28	27	216.0	5.7
29	28	215.6	5.3
30	29	215.6	5.3
31	30	215.4	5.1
32	31	215.9	5.6
33	32	215.6	5.3
34	33	215.6	5.3
35	34	216.0	5.7
36	35	215.9	5.6
37	36	215.6	5.3
38	37	215.9	5.6
39	38	216.0	5.7
40	39	216.0	5.7
41	40	216.0	5.7
42	41	216.0	5.7
43	42	215.7	5.4
44	43	215.7	5.4
45	44	215.9	5.6
46	45	215.6	5.3
47	46	215.5	5.2
48	47	215.4	5.1
49	48	215.8	5.5
50	49	215.8	5.5

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-4	MW-4 Slug Out

Static water level: 210.3 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
51	50	215.6	5.3
52	51	215.7	5.4
53	52	215.2	4.9
54	53	215.5	5.2
55	54	215.7	5.4
56	55	215.4	5.1
57	56	215.5	5.2
58	57	215.4	5.1
59	58	215.2	4.9
60	59	215.5	5.2
61	60	215.3	5.0
62	61	214.8	4.5
63	62	215.4	5.1
64	63	215.5	5.2
65	64	215.5	5.2
66	65	215.2	4.9
67	66	215.4	5.1
68	67	215.2	4.9
69	68	215.2	4.9
70	69	215.2	4.9
71	70	215.3	5.0
72	71	215.3	5.0
73	72	215.2	4.9
74	73	214.7	4.4
75	74	215.0	4.7
76	75	215.1	4.8
77	76	214.8	4.5
78	77	215.0	4.7
79	78	214.8	4.5
80	79	214.8	4.5
81	80	214.7	4.4
82	81	214.9	4.6
83	82	214.8	4.5
84	83	215.3	5.0
85	84	214.8	4.5
86	85	215.1	4.8
87	86	215.1	4.8
88	87	214.6	4.3
89	88	215.0	4.7
90	89	214.7	4.4
91	90	214.7	4.4
92	91	215.3	5.0
93	92	215.0	4.7
94	93	214.4	4.1
95	94	214.7	4.4
96	95	214.4	4.1
97	96	214.6	4.3
98	97	214.6	4.3
99	98	214.7	4.4
100	99	214.2	3.9

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-4	MW-4 Slug Out

Static water level: 210.3 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
101	100	214.7	4.4
102	101	215.1	4.8
103	102	214.6	4.3
104	103	214.3	4.0
105	104	214.6	4.3
106	105	214.0	3.7
107	106	214.3	4.0
108	107	214.6	4.3
109	108	214.1	3.8
110	109	214.3	4.0
111	110	214.2	3.9
112	111	214.7	4.4
113	112	214.0	3.7
114	113	214.6	4.3
115	114	213.9	3.6
116	115	213.9	3.6
117	116	213.6	3.3
118	117	214.0	3.7
119	118	214.2	3.9
120	119	214.1	3.8
121	120	214.2	3.9
122	121	214.6	4.3
123	122	214.8	4.5
124	123	214.1	3.8
125	124	214.6	4.3
126	125	214.1	3.8
127	126	214.0	3.7
128	127	214.0	3.7
129	128	214.4	4.1
130	129	214.0	3.7
131	130	214.0	3.7
132	131	214.0	3.7
133	132	213.7	3.4
134	133	214.3	4.0
135	134	214.2	3.9
136	135	214.1	3.8
137	136	213.7	3.4
138	137	213.7	3.4
139	138	213.8	3.5
140	139	214.0	3.7
141	140	213.4	3.1
142	141	213.6	3.3
143	142	213.3	3.0
144	143	213.8	3.5
145	144	213.7	3.4
146	145	213.5	3.2
147	146	214.2	3.9
148	147	213.4	3.1
149	148	213.8	3.5
150	149	213.7	3.4

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-4	MW-4 Slug Out

Static water level: 210.3 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
151	150	213.6	3.3
152	151	213.4	3.1
153	152	213.8	3.5
154	153	213.7	3.4
155	154	213.7	3.4
156	155	213.4	3.1
157	156	213.8	3.5
158	157	213.8	3.5
159	158	213.7	3.4
160	159	213.7	3.4
161	160	213.2	2.9
162	161	213.7	3.4
163	162	213.5	3.2
164	163	213.8	3.5
165	164	213.2	2.9
166	165	213.5	3.2
167	166	213.5	3.2
168	167	213.7	3.4
169	168	213.6	3.3
170	169	213.6	3.3
171	170	213.5	3.2
172	171	213.2	2.9
173	172	213.8	3.5
174	173	213.7	3.4
175	174	213.4	3.1
176	175	213.3	3.0
177	176	213.1	2.8
178	177	213.4	3.1
179	178	213.4	3.1
180	179	213.8	3.5
181	180	214.0	3.7
182	181	213.9	3.6
183	182	214.1	3.8
184	183	213.8	3.5
185	184	213.8	3.5
186	185	213.9	3.6
187	186	213.9	3.6
188	187	214.3	4.0
189	188	214.4	4.1
190	189	213.9	3.6
191	190	214.1	3.8
192	191	214.2	3.9
193	192	214.3	4.0
194	193	214.3	4.0
195	194	214.0	3.7
196	195	214.4	4.1
197	196	214.1	3.8
198	197	214.7	4.4
199	198	214.8	4.5
200	199	214.8	4.5

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-4	MW-4 Slug Out

Static water level: 210.3 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
201	200	214.5	4.2
202	201	214.4	4.1
203	202	214.9	4.6
204	203	214.3	4.0
205	204	215.0	4.7
206	205	215.0	4.7
207	206	215.0	4.7
208	207	214.5	4.2
209	208	214.8	4.5
210	209	215.1	4.8
211	210	215.0	4.7
212	211	215.2	4.9
213	212	215.1	4.8
214	213	214.7	4.4
215	214	215.3	5.0
216	215	214.9	4.6
217	216	215.3	5.0
218	217	215.1	4.8
219	218	215.1	4.8
220	219	214.9	4.6
221	220	215.1	4.8
222	221	215.2	4.9
223	222	215.4	5.1
224	223	215.1	4.8
225	224	214.9	4.6
226	225	214.6	4.3
227	226	214.8	4.5
228	227	214.8	4.5
229	228	215.3	5.0
230	229	214.8	4.5
231	230	215.0	4.7
232	231	215.4	5.1
233	232	214.8	4.5
234	233	215.0	4.7
235	234	215.1	4.8
236	235	214.9	4.6
237	236	215.2	4.9
238	237	215.2	4.9
239	238	215.3	5.0
240	239	215.1	4.8
241	240	214.9	4.6
242	241	214.5	4.2
243	242	214.8	4.5
244	243	214.9	4.6
245	244	215.1	4.8
246	245	214.5	4.2
247	246	215.1	4.8
248	247	215.1	4.8
249	248	214.8	4.5
250	249	214.9	4.6

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-4	MW-4 Slug Out

Static water level: 210.3 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
251	250	214.7	4.4
252	251	214.6	4.3
253	252	215.3	5.0
254	253	215.1	4.8
255	254	214.9	4.6
256	255	214.6	4.3
257	256	214.5	4.2
258	257	214.7	4.4
259	258	214.7	4.4
260	259	214.7	4.4
261	260	214.9	4.6
262	261	214.7	4.4
263	262	214.8	4.5
264	263	215.0	4.7
265	264	215.1	4.8
266	265	214.6	4.3
267	266	215.0	4.7
268	267	214.6	4.3
269	268	215.3	5.0
270	269	214.9	4.6
271	270	214.9	4.6
272	271	215.0	4.7
273	272	214.6	4.3
274	273	214.5	4.2
275	274	215.3	5.0
276	275	215.1	4.8
277	276	214.9	4.6
278	277	214.7	4.4
279	278	214.5	4.2
280	279	214.9	4.6
281	280	214.9	4.6
282	281	214.9	4.6
283	282	214.8	4.5
284	283	214.4	4.1
285	284	214.9	4.6
286	285	214.7	4.4
287	286	214.5	4.2
288	287	214.8	4.5
289	288	215.0	4.7
290	289	214.6	4.3
291	290	214.1	3.8
292	291	214.8	4.5
293	292	214.8	4.5
294	293	214.6	4.3
295	294	214.5	4.2
296	295	214.7	4.4
297	296	214.7	4.4
298	297	215.0	4.7
299	298	214.9	4.6
300	299	214.6	4.3

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

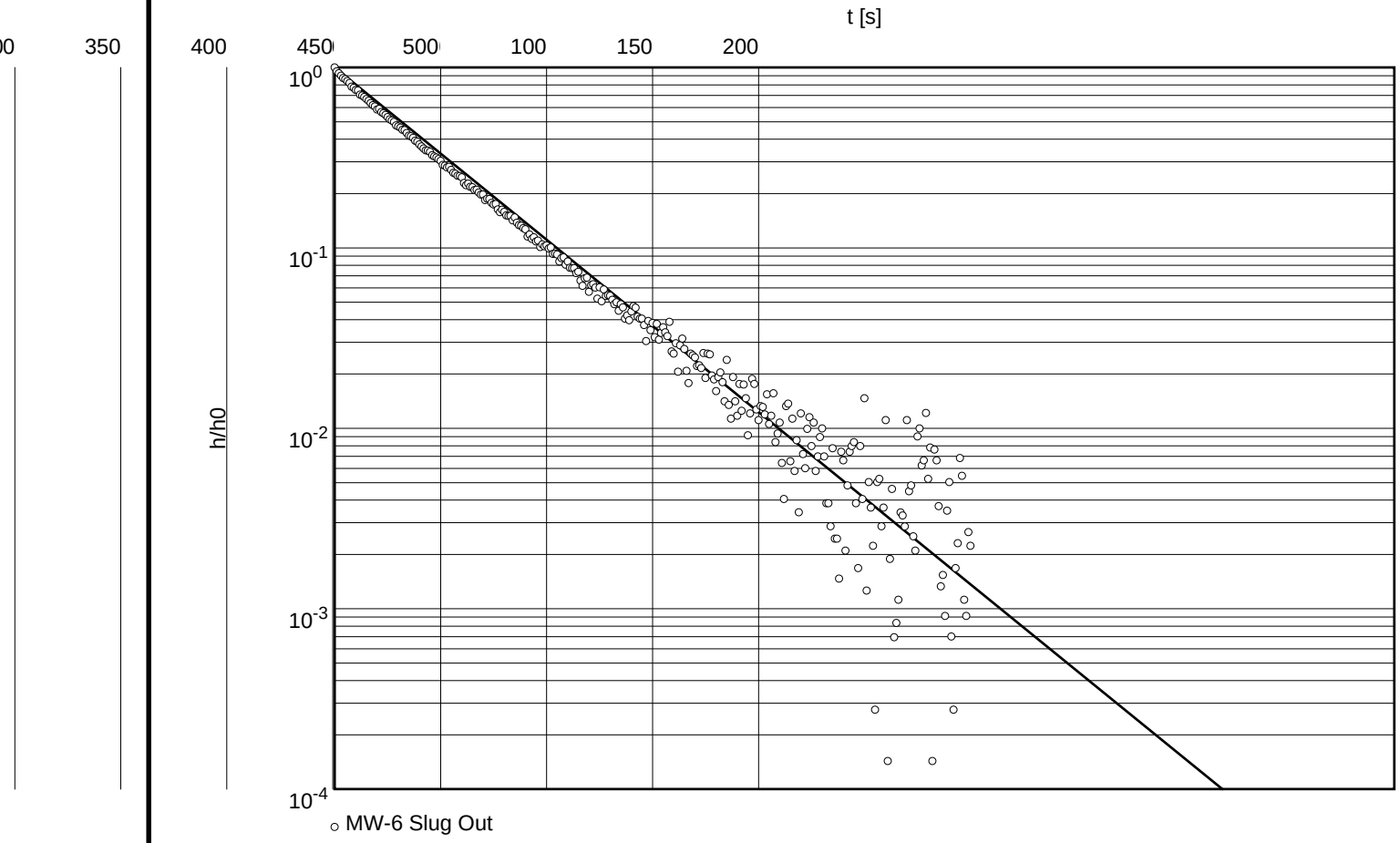
Slug Test No. Slug Out	Test conducted on: 12-18-14
MW-4	MW-4 Slug Out

Static water level: 210.3 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]	
301	300	214.9	4.6	

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-13
MW-6	



Hydraulic conductivity [cm/s]: 4.47×10^{-4}

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-13
MW-6	MW-6 Slug Out

Static water level: 101.8 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
1	0	145.5	43.7
2	1	143.3	41.5
3	2	142.3	40.5
4	3	141.1	39.3
5	4	139.9	38.1
6	5	139.4	37.6
7	6	138.4	36.6
8	7	137.6	35.8
9	8	136.0	34.2
10	9	135.4	33.6
11	10	134.5	32.7
12	11	134.3	32.5
13	12	132.6	30.8
14	13	132.3	30.5
15	14	131.7	29.9
16	15	131.0	29.2
17	16	130.3	28.5
18	17	129.5	27.7
19	18	128.8	27.0
20	19	128.3	26.5
21	20	127.3	25.5
22	21	127.5	25.7
23	22	126.5	24.7
24	23	126.1	24.3
25	24	125.6	23.8
26	25	124.9	23.1
27	26	124.3	22.5
28	27	124.0	22.2
29	28	123.6	21.8
30	29	122.6	20.8
31	30	122.4	20.6
32	31	122.0	20.2
33	32	121.5	19.7
34	33	121.4	19.6
35	34	120.7	18.9
36	35	120.1	18.3
37	36	119.9	18.1
38	37	119.6	17.8
39	38	118.9	17.1
40	39	118.7	16.9
41	40	118.2	16.4
42	41	117.7	15.9
43	42	117.3	15.5
44	43	116.9	15.1
45	44	116.9	15.1
46	45	116.7	14.9
47	46	116.0	14.2
48	47	115.8	14.0
49	48	115.6	13.8
50	49	115.3	13.5

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-13
MW-6	MW-6 Slug Out

Static water level: 101.8 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
51	50	115.0	13.2
52	51	114.4	12.6
53	52	114.3	12.5
54	53	114.0	12.2
55	54	114.1	12.3
56	55	113.6	11.8
57	56	113.2	11.4
58	57	113.0	11.2
59	58	112.8	11.0
60	59	112.7	10.9
61	60	112.5	10.7
62	61	111.8	10.0
63	62	111.5	9.7
64	63	111.7	9.9
65	64	111.3	9.5
66	65	111.3	9.5
67	66	110.9	9.1
68	67	111.0	9.2
69	68	110.6	8.8
70	69	110.4	8.6
71	70	110.4	8.6
72	71	109.8	8.0
73	72	110.0	8.2
74	73	109.9	8.1
75	74	109.6	7.8
76	75	109.4	7.6
77	76	109.4	7.6
78	77	108.9	7.1
79	78	108.7	6.9
80	79	108.9	7.1
81	80	108.7	6.9
82	81	108.4	6.6
83	82	108.4	6.6
84	83	108.4	6.6
85	84	108.0	6.2
86	85	108.2	6.4
87	86	107.8	6.0
88	87	107.6	5.8
89	88	107.6	5.8
90	89	107.4	5.6
91	90	107.3	5.5
92	91	106.8	5.0
93	92	107.0	5.2
94	93	106.7	4.9
95	94	106.8	5.0
96	95	106.5	4.7
97	96	106.6	4.8
98	97	106.2	4.4
99	98	106.4	4.6
100	99	106.3	4.5

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-13
MW-6	MW-6 Slug Out

Static water level: 101.8 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
101	100	106.3	4.5
102	101	106.1	4.3
103	102	106.2	4.4
104	103	105.8	4.0
105	104	105.9	4.1
106	105	105.8	4.0
107	106	105.5	3.7
108	107	105.6	3.8
109	108	105.7	3.9
110	109	105.3	3.5
111	110	105.5	3.7
112	111	105.2	3.4
113	112	105.2	3.4
114	113	105.2	3.4
115	114	105.0	3.2
116	115	105.0	3.2
117	116	104.7	2.9
118	117	104.5	2.7
119	118	104.8	3.0
120	119	104.8	3.0
121	120	104.3	2.5
122	121	104.5	2.7
123	122	104.5	2.7
124	123	104.4	2.6
125	124	104.1	2.3
126	125	104.4	2.6
127	126	104.0	2.2
128	127	104.4	2.6
129	128	104.2	2.4
130	129	104.2	2.4
131	130	104.2	2.4
132	131	104.0	2.2
133	132	103.9	2.1
134	133	104.0	2.2
135	134	103.8	2.0
136	135	103.9	2.1
137	136	103.8	2.0
138	137	103.6	1.8
139	138	103.6	1.8
140	139	103.5	1.7
141	140	103.7	1.9
142	141	103.9	2.1
143	142	103.8	2.0
144	143	103.6	1.8
145	144	103.6	1.8
146	145	103.6	1.8
147	146	103.4	1.6
148	147	103.1	1.3
149	148	103.5	1.7
150	149	103.3	1.5

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-13
MW-6	MW-6 Slug Out

Static water level: 101.8 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
151	150	103.5	1.7
152	151	103.2	1.4
153	152	103.5	1.7
154	153	103.2	1.4
155	154	103.3	1.5
156	155	103.4	1.6
157	156	103.3	1.5
158	157	103.2	1.4
159	158	103.5	1.7
160	159	103.0	1.2
161	160	102.9	1.1
162	161	103.1	1.3
163	162	102.7	0.9
164	163	103.1	1.3
165	164	103.2	1.4
166	165	103.0	1.2
167	166	102.7	0.9
168	167	102.6	0.8
169	168	102.9	1.1
170	169	102.9	1.1
171	170	102.9	1.1
172	171	102.8	1.0
173	172	102.8	1.0
174	173	102.7	0.9
175	174	102.9	1.1
176	175	102.6	0.8
177	176	102.9	1.1
178	177	102.9	1.1
179	178	102.7	0.9
180	179	102.6	0.8
181	180	102.5	0.7
182	181	102.6	0.8
183	182	102.7	0.9
184	183	102.6	0.8
185	184	102.4	0.6
186	185	102.8	1.0
187	186	102.4	0.6
188	187	102.3	0.5
189	188	102.6	0.8
190	189	102.4	0.6
191	190	102.3	0.5
192	191	102.6	0.8
193	192	102.3	0.5
194	193	102.6	0.8
195	194	102.4	0.6
196	195	102.2	0.4
197	196	102.3	0.5
198	197	102.6	0.8
199	198	102.6	0.8
200	199	102.4	0.6

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-13
MW-6	MW-6 Slug Out

Static water level: 101.8 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
201	200	102.3	0.5
202	201	102.4	0.6
203	202	102.4	0.6
204	203	102.3	0.5
205	204	102.5	0.7
206	205	102.3	0.5
207	206	102.3	0.5
208	207	102.5	0.7
209	208	102.2	0.4
210	209	102.2	0.4
211	210	102.3	0.5
212	211	102.1	0.3
213	212	102.0	0.2
214	213	102.4	0.6
215	214	102.4	0.6
216	215	102.1	0.3
217	216	102.3	0.5
218	217	102.1	0.3
219	218	102.2	0.4
220	219	101.9	0.1
221	220	102.3	0.5
222	221	102.1	0.3
223	222	102.1	0.3
224	223	102.2	0.4
225	224	102.3	0.5
226	225	102.1	0.3
227	226	102.3	0.5
228	227	102.1	0.3
229	228	102.1	0.3
230	229	102.2	0.4
231	230	102.2	0.4
232	231	102.1	0.3
233	232	102.0	0.2
234	233	102.0	0.2
235	234	101.9	0.1
236	235	102.1	0.3
237	236	101.9	0.1
238	237	101.9	0.1
239	238	101.9	0.1
240	239	102.1	0.3
241	240	102.1	0.3
242	241	101.9	0.1
243	242	102.0	0.2
244	243	102.1	0.3
245	244	102.1	0.3
246	245	102.2	0.4
247	246	102.0	0.2
248	247	101.9	0.1
249	248	102.1	0.3
250	249	102.0	0.2

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-13
MW-6	MW-6 Slug Out

Static water level: 101.8 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]
251	250	102.4	0.6
252	251	101.9	0.1
253	252	102.0	0.2
254	253	102.0	0.2
255	254	101.7	-0.1
256	255	101.8	-0.0
257	256	102.0	0.2
258	257	102.0	0.2
259	258	101.9	0.1
260	259	102.0	0.2
261	260	102.3	0.5
262	261	101.8	0.0
263	262	101.9	0.1
264	263	102.0	0.2
265	264	101.8	-0.0
266	265	101.8	-0.0
267	266	101.8	0.0
268	267	101.7	-0.1
269	268	101.9	0.1
270	269	101.7	-0.1
271	270	102.3	0.5
272	271	102.0	0.2
273	272	102.0	0.2
274	273	101.9	0.1
275	274	101.9	0.1
276	275	102.2	0.4
277	276	102.2	0.4
278	277	102.1	0.3
279	278	102.1	0.3
280	279	102.3	0.5
281	280	102.0	0.2
282	281	102.1	0.3
283	282	101.8	0.0
284	283	102.1	0.3
285	284	102.1	0.3
286	285	102.0	0.2
287	286	101.9	0.1
288	287	101.9	0.1
289	288	101.8	0.0
290	289	102.0	0.2
291	290	102.0	0.2
292	291	101.8	0.0
293	292	101.8	-0.0
294	293	101.9	0.1
295	294	101.9	0.1
296	295	102.1	0.3
297	296	102.0	0.2
298	297	101.8	0.0
299	298	101.8	0.0
300	299	101.9	0.1

Waterloo Hydrogeologic 180 Columbia St. W. Waterloo,Ontario,Canada ph.(519)746-1798	slug/bail test analysis BOUWER-RICE's method	Date: 3-2-14	Phase II Remedial Invest
		Project: Apex Village	
		Evaluated by: D. Payne	

Slug Test No. Slug Out	Test conducted on: 12-18-13
MW-6	MW-6 Slug Out

Static water level: 101.8 cm below datum

	Pumping test duration [s]	Water level [cm]	Drawdown [cm]	
301	300	101.7	-0.1	

APPENDIX N

BIOCHLOR INPUT DATA AND RESULTS

BIOCHLOR Natural Attenuation Decision Support System

Version 2.2
Excel 2000

Apex Village
Plume Calibration
Run Name

Data Input Instructions:

115 → 1. Enter value directly....or
↑ *or* 2. Calculate by filling in gray
0.02 cells. Press Enter, then C
(To restore formulas, hit "Restore Formulas" button)
Variable* → Data used directly in model.

Test if Biotransformation is Occurring → Natural Attenuation Screening Protocol

TYPE OF CHLORINATED SOLVENT: Ethenes ◉ Ethanes ○

1. ADVECTION

Seepage Velocity*	Vs	29.6	(ft/yr)
or			
Hydraulic Conductivity	K	2.5E-04	(cm/sec)
Hydraulic Gradient	i	0.0175	(ft/ft)
Effective Porosity	n	0.15	(-)

2. DISPERSION

Alpha x*	25	(ft)
(Alpha y) / (Alpha x)*	2.5	(-)
(Alpha z) / (Alpha x)*	1.E+00	(-)

Calc. Alpha x

3. ADSORPTION

Retardation Factor* → R

or

			R	
Soil Bulk Density, rho	1.5	(kg/L)		
FractionOrganicCarbon, foc	1.0E-3	(-)		
Partition Coefficient	Koc			
PCE	426	(L/kg)	5.26	(-)
TCE	130	(L/kg)	2.30	(-)
DCE	125	(L/kg)	2.25	(-)
VC	30	(L/kg)	1.30	(-)
ETH	302	(L/kg)	4.02	(-)
Common R (used in model)* =			**2.30**	

4. BIOTRANSFORMATION

-1st Order Decay Coefficient*

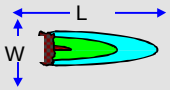
Zone 1	λ (1/yr)	half-life (yrs)	Yield
PCE → TCE	0.330	2.10	0.79
TCE → DCE	0.462	1.50	0.74
DCE → VC	3.300	0.21	0.64
VC → ETH	2.567	0.27	0.45

Zone 2	λ (1/yr)	half-life (yrs)
PCE → TCE	0.000	
TCE → DCE	0.000	
DCE → VC	0.000	
VC → ETH	0.000	

λ HELP

5. GENERAL

Simulation Time*	30	(yr)
Modeled Area Width*	200	(ft)
Modeled Area Length*	250	(ft)
Zone 1 Length*	250	(ft)
Zone 2 Length*	0	(ft)



Zone 2= L - Zone 1

6. SOURCE DATA

TYPE: Continuous, Single Planar

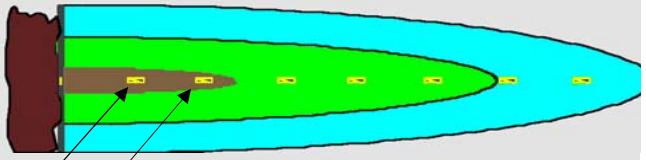
Source Options

Source Thickness in Sat. Zone* 20 (ft)

Width* (ft) Y1 50

Conc. (mg/L)*	C1	k_s* (1/yr)
PCE	.28	0
TCE	.11	0
DCE		0
VC		0
ETH		0

Vertical Plane Source: Determine Source Well Location and Input Solvent Concentrations



View of Plume Looking Down

Observed Centerline Conc. at Monitoring Wells

7. FIELD DATA FOR COMPARISON

PCE Conc. (mg/L)		.03							.0		
TCE Conc. (mg/L)		.015							.0		
DCE Conc. (mg/L)											
VC Conc. (mg/L)											
ETH Conc. (mg/L)											
Distance from Source (ft)	0	30							230		
Date Data Collected	2013										

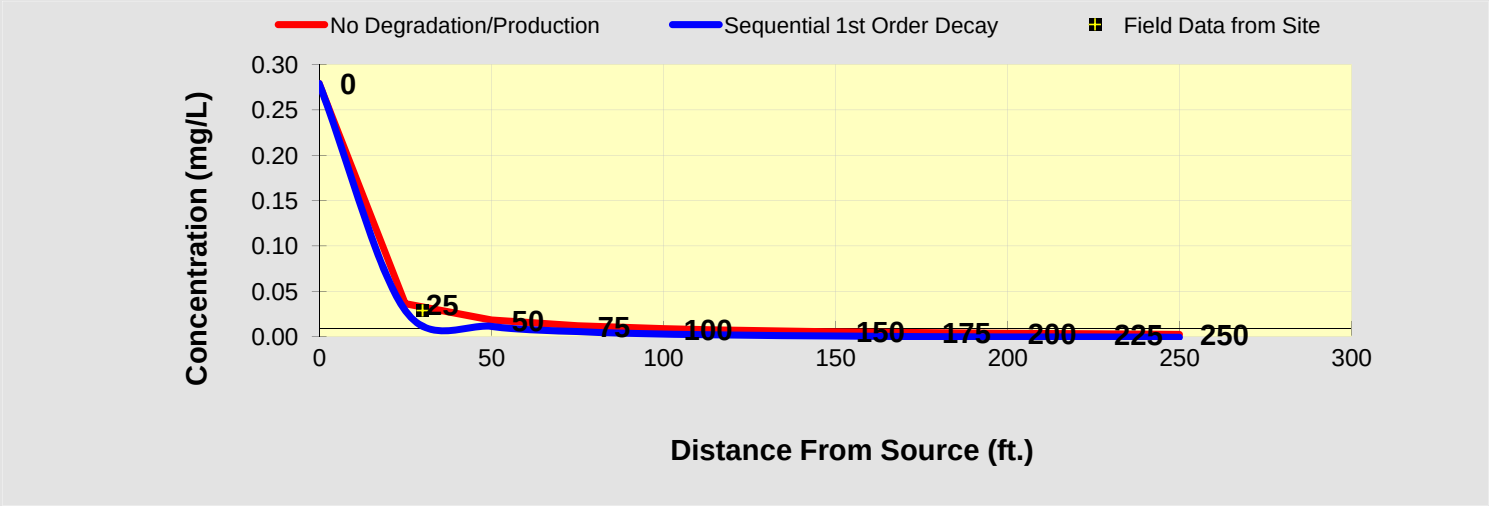
8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | RUN ARRAY | Help | Restore Formulas | RESET | SEE OUTPUT | Paste Example

DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

PCE	Distance from Source (ft)										
	0	25	50	75	100	125	150	175	200	225	250
No Degradation	0.280	0.037	0.019	0.013	0.010	0.008	0.006	0.006	0.005	0.004	0.004
Biotransformation	0.2800	0.030	0.012	0.007	0.004	0.003	0.002	0.001	0.001	0.001	0.000

	Monitoring Well Locations (ft)										
	0	30							230		
Field Data from Site		0.030							0.000		



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

30.0 Years

Log ⟺ Linear

Return to Input

To All

To Array

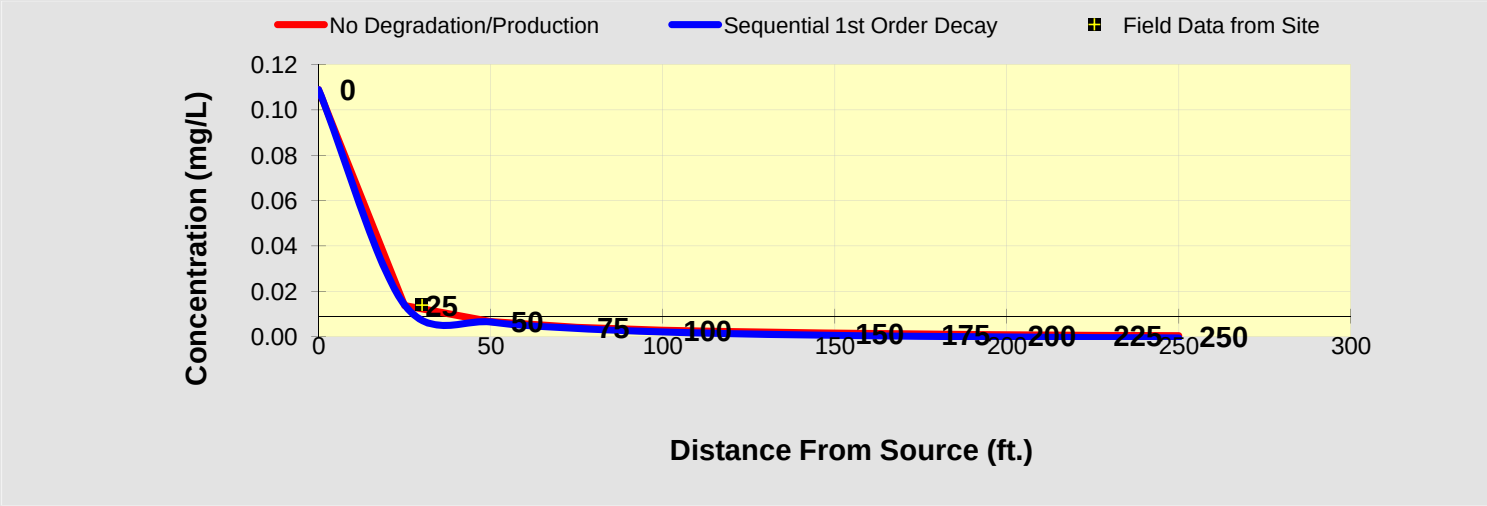
DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

TCE	0	25	50	75	100	125	150	175	200	225	250
No Degradation	0.110	0.015	0.008	0.005	0.004	0.003	0.003	0.002	0.002	0.002	0.001
Biotransformation	0.1100	0.015	0.008	0.005	0.003	0.002	0.002	0.001	0.001	0.001	0.000

Monitoring Well Locations (ft)

	0	30							230		
Field Data from Site		0.015							0.000		



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

30.0 Years

Log ⟺ Linear

Return to Input

To All

To Array

BIOCHLOR Natural Attenuation Decision Support System

Version 2.2
Excel 2000

Apex Village
Maximum Plume
Run Name

Data Input Instructions:

115 → 1. Enter value directly....or
↑ *or* 2. Calculate by filling in gray
0.02 cells. Press Enter, then C
(To restore formulas, hit "Restore Formulas" button)
Variable* → Data used directly in model.

Test if Biotransformation is Occurring → Natural Attenuation Screening Protocol

TYPE OF CHLORINATED SOLVENT: Ethenes ◉ Ethanes ○

1. ADVECTION

Seepage Velocity*	Vs	29.6	(ft/yr)
or			
Hydraulic Conductivity	K	2.5E-04	(cm/sec)
Hydraulic Gradient	i	0.0175	(ft/ft)
Effective Porosity	n	0.15	(-)

2. DISPERSION

Alpha x*	25	(ft)
(Alpha y) / (Alpha x)*	2.5	(-)
(Alpha z) / (Alpha x)*	1.E+00	(-)

Calc. Alpha x

3. ADSORPTION

Retardation Factor* → R

or

			R	
Soil Bulk Density, rho	1.5	(kg/L)		
FractionOrganicCarbon, foc	1.0E-3	(-)		
Partition Coefficient	Koc			
PCE	426	(L/kg)	5.26	(-)
TCE	130	(L/kg)	2.30	(-)
DCE	125	(L/kg)	2.25	(-)
VC	30	(L/kg)	1.30	(-)
ETH	302	(L/kg)	4.02	(-)
Common R (used in model)* =			**2.30**	

4. BIOTRANSFORMATION

-1st Order Decay Coefficient*

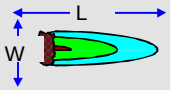
Zone 1	λ (1/yr)	half-life (yrs)	Yield
PCE → TCE	0.330	2.10	0.79
TCE → DCE	0.462	1.50	0.74
DCE → VC	3.300	0.21	0.64
VC → ETH	2.567	0.27	0.45

Zone 2	λ (1/yr)	half-life (yrs)
PCE → TCE	0.000	
TCE → DCE	0.000	
DCE → VC	0.000	
VC → ETH	0.000	

λ HELP

5. GENERAL

Simulation Time*	10	(yr)
Modeled Area Width*	200	(ft)
Modeled Area Length*	250	(ft)
Zone 1 Length*	250	(ft)
Zone 2 Length*	0	(ft)



Zone 2= L - Zone 1

6. SOURCE DATA

TYPE: Decaying
Single Planar

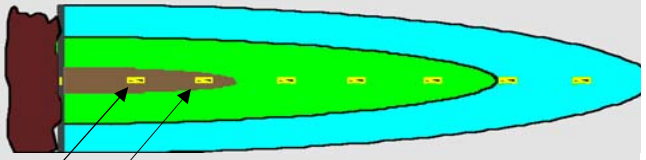
Source Options

Source Thickness in Sat. Zone* 20 (ft)

Width* (ft) Y1 50

Conc. (mg/L)*	C1	k_s* (1/yr)
PCE	.28	0.107
TCE	.11	0.107
DCE		0.107
VC		0.107
ETH		0.107

Vertical Plane Source: Determine Source Well Location and Input Solvent Concentrations



View of Plume Looking Down

Observed Centerline Conc. at Monitoring Wells

7. FIELD DATA FOR COMPARISON

PCE Conc. (mg/L)		.03							.0		
TCE Conc. (mg/L)		.015							.0		
DCE Conc. (mg/L)											
VC Conc. (mg/L)											
ETH Conc. (mg/L)											
Distance from Source (ft)	0	30							230		
Date Data Collected	2013										

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | RUN ARRAY | Help | Restore Formulas | RESET | SEE OUTPUT | Paste Example

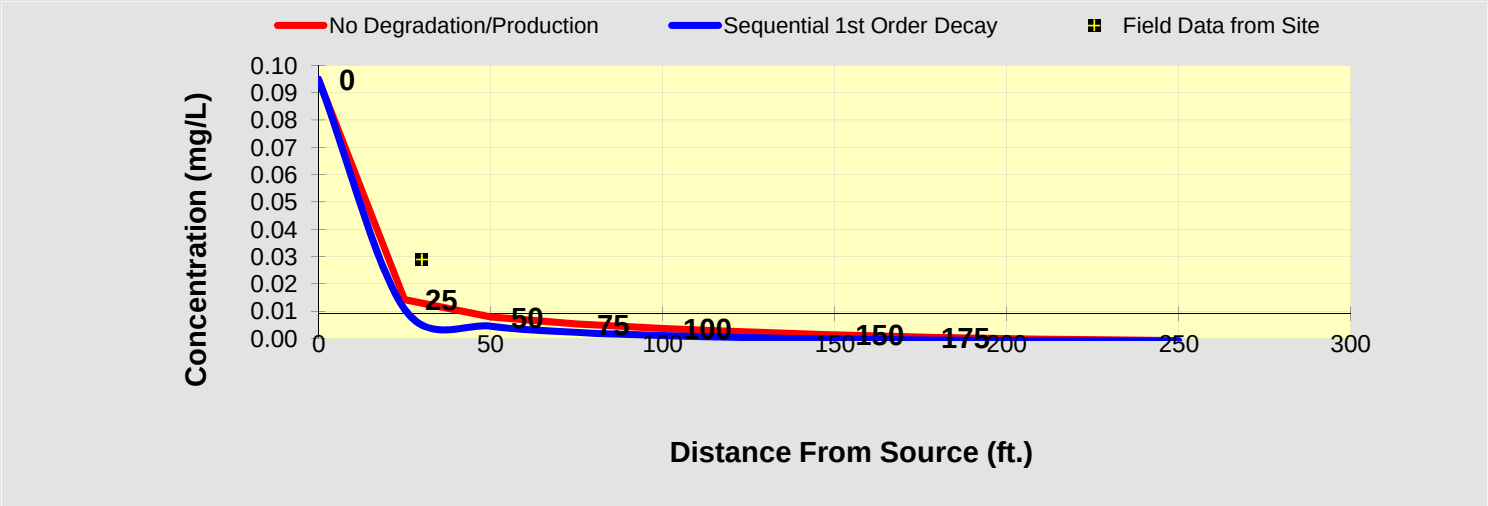
DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

PCE	0	25	50	75	100	125	150	175	200	225	250
No Degradation	0.096	0.015	0.009	0.006	0.005	0.003	0.002	0.002	0.001	0.001	0.000
Biotransformation	0.0960	0.012	0.006	0.003	0.002	0.001	0.001	0.001	0.000	0.000	0.000

Monitoring Well Locations (ft)

	0	30							230		
Field Data from Site		0.030							0.000		



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

10.0 Years

Log ⟺ Linear

Return to Input

To All

To Array

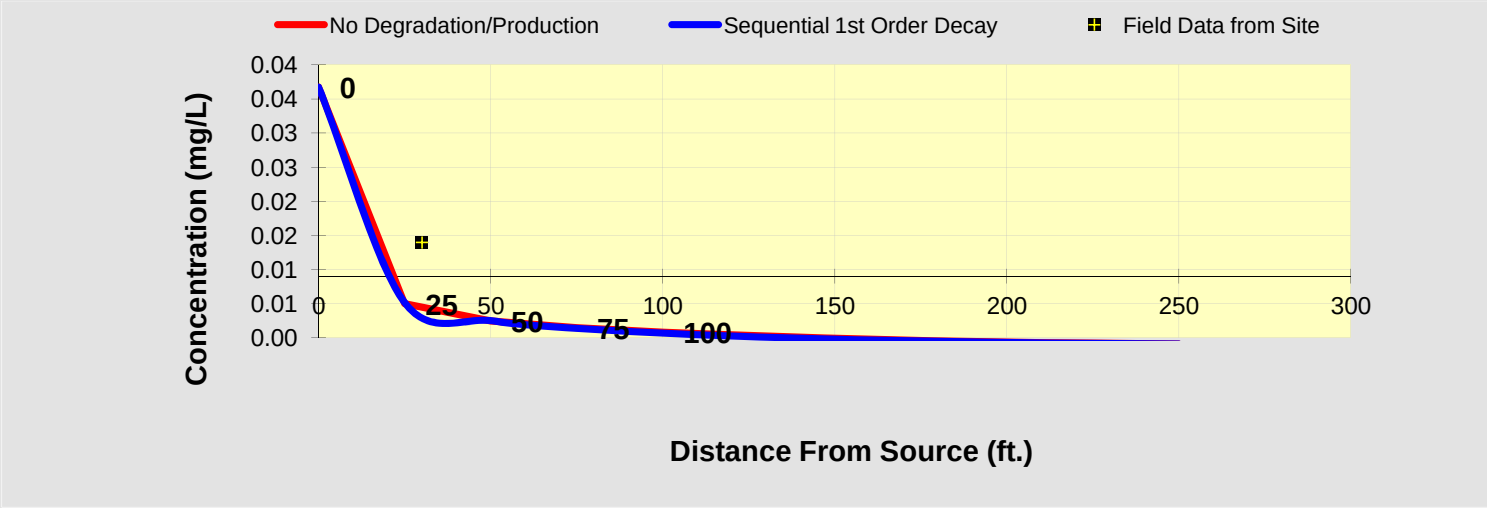
DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

TCE	0	25	50	75	100	125	150	175	200	225	250
No Degradation	0.038	0.006	0.003	0.002	0.002	0.001	0.001	0.001	0.000	0.000	0.000
Biotransformation	0.0377	0.006	0.004	0.002	0.002	0.001	0.001	0.001	0.000	0.000	0.000

Monitoring Well Locations (ft)

	0	30							230		
Field Data from Site		0.015							0.000		



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

10.0 Years

Log ⟺ Linear

Return to Input

To All

To Array

BIOCHLOR Natural Attenuation Decision Support System

Version 2.2
Excel 2000

Apex Village
MW-3 <0.0007 ppm
Run Name

Data Input Instructions:

115 → 1. Enter value directly....or
↑ *or* 2. Calculate by filling in gray
0.02 cells. Press Enter, then (C)
(To restore formulas, hit "Restore Formulas" button)
Variable* → Data used directly in model.

Test if Biotransformation is Occurring → Natural Attenuation Screening Protocol

TYPE OF CHLORINATED SOLVENT: Ethenes ◉ Ethanes ○

1. ADVECTION

Seepage Velocity*	Vs	29.6	(ft/yr)
or			
Hydraulic Conductivity	K	2.5E-04	(cm/sec)
Hydraulic Gradient	i	0.0175	(ft/ft)
Effective Porosity	n	0.15	(-)

2. DISPERSION

Alpha x*	25	(ft)
(Alpha y) / (Alpha x)*	2.5	(-)
(Alpha z) / (Alpha x)*	1.E+00	(-)

Calc. Alpha x

3. ADSORPTION

Retardation Factor* → R

or

Soil Bulk Density, rho	1.5	(kg/L)		
FractionOrganicCarbon, foc	1.0E-3	(-)		
Partition Coefficient	Koc			
PCE	426	(L/kg)	5.26	(-)
TCE	130	(L/kg)	2.30	(-)
DCE	125	(L/kg)	2.25	(-)
VC	30	(L/kg)	1.30	(-)
ETH	302	(L/kg)	4.02	(-)
Common R (used in model)* =			**2.30**	

4. BIOTRANSFORMATION

-1st Order Decay Coefficient*

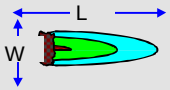
Zone 1	λ (1/yr)	half-life (yrs)	Yield
PCE → TCE	0.330	2.10	0.79
TCE → DCE	0.462	1.50	0.74
DCE → VC	3.300	0.21	0.64
VC → ETH	2.567	0.27	0.45

Zone 2	λ (1/yr)	half-life (yrs)
PCE → TCE	0.000	
TCE → DCE	0.000	
DCE → VC	0.000	
VC → ETH	0.000	

λ HELP

5. GENERAL

Simulation Time*	34	(yr)
Modeled Area Width*	200	(ft)
Modeled Area Length*	250	(ft)
Zone 1 Length*	250	(ft)
Zone 2 Length*	0	(ft)



Zone 2= L - Zone 1

6. SOURCE DATA

TYPE: Decaying
Single Planar

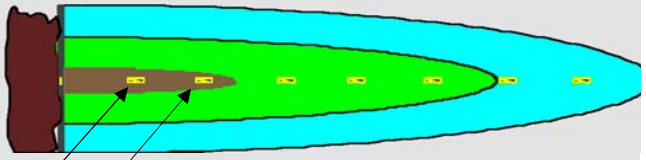
Source Options

Source Thickness in Sat. Zone* 20 (ft)

Y1
Width* (ft) 50

Conc. (mg/L)*	C1	k_s* (1/yr)
PCE	.28	0.107
TCE	.11	0.107
DCE		0.107
VC		0.107
ETH		0.107

Vertical Plane Source: Determine Source Well Location and Input Solvent Concentrations



View of Plume Looking Down

Observed Centerline Conc. at Monitoring Wells

7. FIELD DATA FOR COMPARISON

PCE Conc. (mg/L)		.03							.0		
TCE Conc. (mg/L)		.015							.0		
DCE Conc. (mg/L)											
VC Conc. (mg/L)											
ETH Conc. (mg/L)											
Distance from Source (ft)	0	30							230		
Date Data Collected	2013										

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | RUN ARRAY | Help | Restore Formulas | RESET | SEE OUTPUT | Paste Example

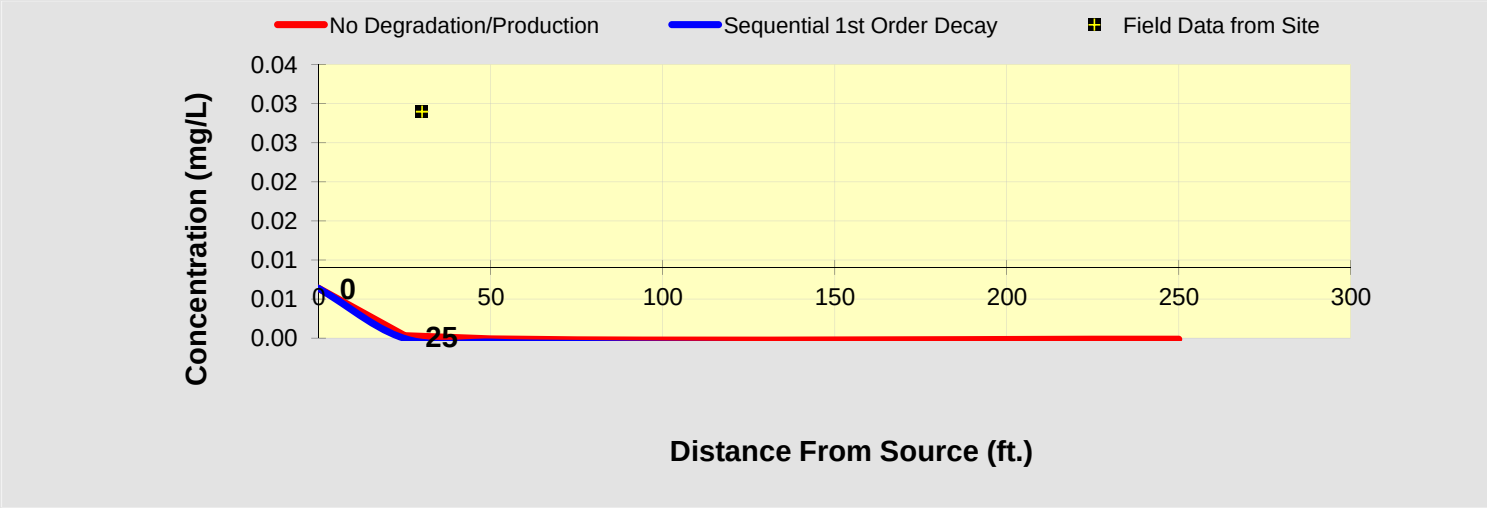
DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

PCE	0	25	50	75	100	125	150	175	200	225	250
No Degradation	0.007	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Biotransformation	0.0074	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Monitoring Well Locations (ft)

	0	30							230		
Field Data from Site		0.030							0.000		



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

34.0 Years

Log ⟺ Linear

Return to Input

To All

To Array

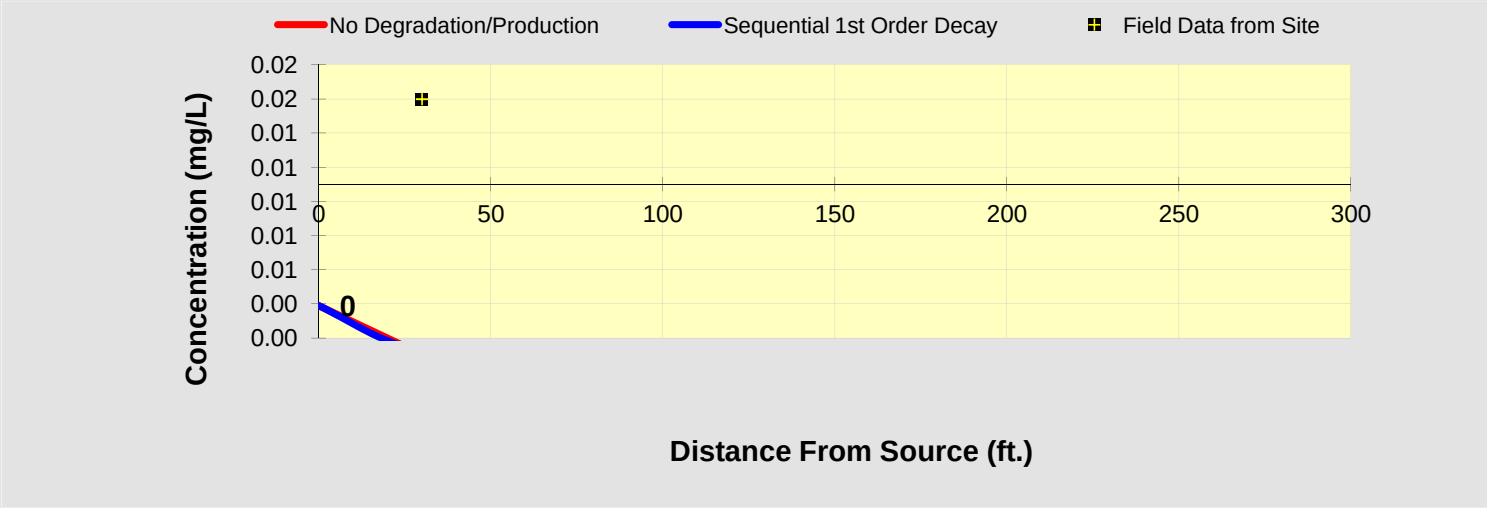
DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

TCE	0	25	50	75	100	125	150	175	200	225	250
No Degradation	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Biotransformation	0.0029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Monitoring Well Locations (ft)

	0	30							230		
Field Data from Site		0.015							0.000		



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

34.0 Years

Log ⟺ Linear

Return to Input

To All

To Array