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# SEMI-ANNUAL PROGRESS REPORT NO. 2 VOLUNTARY REMEDIATION PROGRAM

# RAYLOC FACILITY
# 600 RAYLOC DRIVE
# FULTON COUNTY
# ATLANTA, GEORGIA
# HSI SITE # 10547

## SAGE PROJECT NO. 1221-1-4

***Prepared For:***

**Genuine Parts Company**
**2999 Circle 75 Parkway**
**Atlanta, Georgia 30339**

***Prepared By:***

**Sage Environmental Consulting, LP**
**600 Chastain Road**
**Suite 320**
**Kennesaw, Georgia 30144**

**OCTOBER 10, 2014**

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October 10, 2014

Mr. Allan C. Nix, P.G.
Georgia Department of Natural Resources
Georgia EPD Response and Remediation Program (GAEPD)
2 Martin Luther King Jr. Dr., SE, STE 1462 East
Atlanta, GA 30334

**Subject:** **Semi-Annual Progress Report No. 2**
**Voluntary Remediation Program**
**Rayloc Facility**
**600 Rayloc Drive, SW**
**Atlanta, Fulton County, Georgia 30336**
**HSI #10547**
**Sage Project No. 1221-1-4**

Dear Mr. Nix:

Sage Environmental Consulting, L.P., under contract to Genuine Parts Company (GPC), respectfully submits this 2nd Semi-Annual Progress Report for the Rayloc facility. This report describes the actions taken at the site since the 1st Semi-Annual Progress Report submitted on April 11, 2014.

The GAEPD comment letter dated October 11, 2013 regarding the Voluntary Investigation and Remediation Plan (VIRP), Response to EPD Conditional CAP Approval, and CAP Performance Management Plan, and the comment of the same date regarding the *Conditional Approval of Entry Into Voluntary Remediation Program*, stated the following:

"The approved VIRP specifies corrective action consisting of the following (I have put a comment regarding the status after each);

- Treatment of contaminated groundwater and soil in and near the former waste-pit area with gas-infusion technology, with the objective of achieving Type 3 risk reduction standards (RRS) in both mediums. **(Ongoing)**
- A DNAPL source-zone investigation will be conducted and, if necessary, appropriate corrective action will be proposed and implemented. **(Completed - see Semi-Annual Progress Report No. 1)**
- Soil conditions in eight (8) documented source areas will be assessed and, if necessary, corrective action will be proposed and implemented to eliminate source material and to bring soil within Type 3 or Type 4 RRSs." **(Conducted & ongoing – see Semi-Annual Progress Report No. 1)**

Further, the comment letter listed the following as Conditions of VIRP Approval:

- Installation of an additional well near the southwestern corner of the RentRite property **(Completed);**
- Include PT-3 into the VRP semi-annual monitoring program **(Completed)**;
- Submit a plat depicting the locations of the existing pilot-test injection wells **(Completed - see Semi-Annual Progress Report No. 1);**
- Submit monitoring well construction schematics for the existing pilot-test wells as well as all newly installed injection wells **(Completed - Included herein)**;
- Demonstration of complete horizontal and vertical delineation **(Ongoing)**;
- Evaluate the vapor-intrusion pathway for all buildings located over the dissolved contaminant plume **(To be completed)**; and,
- Specify the point of exposure (POE) or point of demonstration (POD) with regard to contaminated groundwater **(Completed – see Semi-Annual Progress Report No. 1)**.

Sage appreciates the opportunity to work with you on this project. Please feel free to contact me at (678) 431-0130 or jack.wintle@sageenvironmental.com or Mr. Bob Lewis with Genuine Parts Company at (404) 858-2564 if you have any questions regarding our report.

Sincerely,
Sage Environmental Consulting, L.P.

Jack A. Wintle

Jack A. Wintle, P.G.
Senior Regulatory Specialist

cc: Mr. Bob Lewis, Genuine Parts Company
Mr. Douglas E. Cloud, Kazmarek Mowrey Cloud Laseter LLP

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## 1.0 INTRODUCTION

A Voluntary Remediation Plan (VRP) for the Rayloc facility located at 600 Rayloc Drive in Atlanta, Fulton County, Georgia, was received by the Georgia Environmental Protection Division Response and Remediation Program (GAEPD) on January 15, 2013 and conditionally approved by the GAEPD on October 11, 2013. In order to evaluate the progress of the voluntary clean-up efforts, semi-annual progress reports are to be prepared. Please refer to Figure 1 for a Site Aerial Map for the location of the site.

The remedial activities include the continuation of the treatment of contaminated soil and groundwater in and near the former waste pit area with gas-infusion technology with the objective of achieving Type 3 Risk Reduction Standards (RRS) in both of these mediums.

## 2.0 MILESTONES COMPLETED SINCE APRIL 11, 2014

Since April 11, 2014, Sage has completed additional investigation within the Rayloc building in the former Parts Disassembly and Cleaning Area. Impact to the soil was detected in this area during the initial investigation. The following section discusses the additional investigation.

### 2.1 Former Parts Disassembly and Cleaning Area Investigation

During the initial subsurface investigation to address the Prospective Purchaser Corrective Action Plan (PPCAP) findings, volatile organic compounds (VOCs) were detected in the soil in the Parts Disassembly and Cleaning Area. Refer to Semi-Annual Progress Report #1 for more detail. Sage has conducted additional delineation sampling in this area to assist in determining the most effective remedial option.

Sage investigated seven additional locations (WD-1 through -7) using direct-push technology and collected two soil samples from each boring for analysis of VOCs based on photoionization detector (PID) results. Please refer to Table 1 for the VRP PID Survey.

Results of the additional delineation sampling indicate that the majority of the impact is contained in the top ten (10) feet with minor detections in several 20-foot samples. Sage will collect further delineation samples of this area as outlined in the Milestones In-Progress section. Please refer to Figures 2 and 3 for maps showing the ongoing soil delineation efforts and Table 2 for the VRP Parts Disassembly Area Investigation Results. Laboratory data for this work is located in Appendix A.

## 3.0 MILESTONES IN-PROGRESS OR TO BE COMPLETED

The milestones that are either in-progress or to be completed at the Rayloc property are outlined in the following sections.

### 3.1 Former Parts Disassembly Area Investigation

Sage will probe additional locations in the Parts Disassembly Area in order to complete the delineation of the impacted soil and will collect two soil samples from each boring for analysis of VOCs based on PID results.

This area was the location where used automobile parts were disassembled and cleaned using solvents. Staining on the floor in this area indicated the potential for impact to the subsurface, although much of the floor in this area was competent.

Laboratory results from the soil samples collected in this area indicate that the impact is mostly contained to the top 10 feet although a couple of the 20-foot samples had lower detections.

Upon completion of the delineation of the impacted soil in this area, Sage will initiate a remedial system (possibly soil vapor extraction [SVE]) that will specifically target the impacted areas identified in the delineation effort. Sage is in the process of determining the most effective corrective action necessary to eliminate source material identified during the VRP investigation and to bring those locations to within Type 3 or Type 4 RRSs.

### 3.2 eGeo Remedial System

The anaerobic phase of the gas infusion technology process in site groundwater has been ongoing since April 2013. Results of the system indicate that the source area (Area 1), while taking longer than expected to respond to the injection program than anticipated, indicate that the negative oxygen-reduction potential (ORP) and daughter product generation are trending in the right direction and driving reductive dechlorination.

The treatment area south of Wendell Drive (Area 2) has responded well to the injection program with field data indicating a downward trend in key parameters, daughter product formation including vinyl chloride has been detected, and the PCE concentrations decreasing. Please refer to Figure 4 for a map showing the eGeo System Injection Wells.

The system appears to be producing the desired reducing environmental conditions in all monitored areas as a clear correlation in the data is becoming apparent; those areas showing the greatest reductions in PCE and generation of daughter products are down-gradient from clusters of 4 or more injection wells. Those areas are generating a greater proportion of daughter product of PCE because the cluster of multiple injection wells in close proximity provide more mass for reductive dechlorination.

Based on these results, Sage will install additional injection wells in those areas that have higher PCE mass relative to the injected treatment volume. Please refer to Figure 4 for a map showing the ongoing eGeo Injection System Map and Table. Please refer to Table 3 for a table showing the groundwater sampling results. The groundwater sampling logs are located in Appendix B and the laboratory data from December 2013 through September 2014 is located in Appendix C.

### 3.3 Complete Horizontal and Vertical Delineation

Although much of the impacted groundwater has been delineated, Sage is in the process of further delineating the groundwater impact as well as delineating the soil impact at the Rayloc property. The soil impact within the Rayloc building has been identified and is being addressed as previously discussed. Please refer to Figure 5 for a map showing the ongoing soil delineation efforts.

### 3.4 Source-Specific Vadose Zone Investigation

Sage conducted a source-specific investigation behind the Rayloc building in order to determine the efficiency of the eGeo System in remediating the vadose zone impact. A direct-push rig was utilized to collect soil samples at five-foot intervals to a total depth of 30 feet below ground surface (bgs) from 20 specific locations within the vadose zone of the source area. A PID was used to determine which samples should be analyzed for VOCs.

Monthly soil samples have been collected from those same locations and depths to measure the efficiency of the eGeo System as well as to provide timely and consistently representative data that will allow us to modify the system or install additional injection wells as needed. Due to the low rate of diffusion in the soil matrix at the site, results have been somewhat static. Sage has implemented a more aggressive system within the pilot study area utilizing soil vapor extraction (SVE). This addition is further discussed below.

### 3.5 Source Area Vadose Zone Pilot Study

In the unsaturated soil area immediately above the groundwater table, gas injection has limited effectiveness because of the low rate of diffusion through the soil matrix as compared to the saturated zone. Therefore, it is necessary to draw the injected gas through the soil from injection wells to vacuum extraction wells. This requires design of injection and extraction sub systems to achieve the soil remediation objectives. A pilot study was initiated in April 2014 to evaluate the effectiveness of the SVE process at the Rayloc site, and develop the basis for design of a full scale system.

Soil Vapor Extraction. Soil vapor extraction (SVE) is an accepted, recognized, and cost-effective technology for remediating soils contaminated with volatile and semi-volatile organic compounds. This technology is known in the industry by various other names, such as soil venting and vacuum extraction. The process involves inducing airflow in the subsurface with an applied vacuum, thus enhancing the in situ volatilization of

contaminants. The SVE process takes advantage of the volatility of the contaminants to allow mass transfer from adsorbed, dissolved, and free phases in the soil to the vapor phase, where it is removed under vacuum and treated above ground.

Degradation Process. At the former Rayloc site, SVE technology is being used in an anaerobic mode to drive reductive dechlorination with nitrogen gas instead of air. The nitrogen carrier stream is supplemented with varying percentages of hydrogen and methane in the same manner employed in the groundwater remediation system operating at the Rayloc Facility. The primary components of a traditional SVE system are similar to the Rayloc SVE system. The major difference is that the extraction process is designed to pull the treatment gas through the zone of soil contamination rather than to extract VOCs directly. Therefore, extraction flow rates are lower than conventional SVE. The design intent is to draw sufficient treatment gas through the zone to sustain both chemical decomposition (reductive dechlorination) and biodegradation of PCE in situ.

Design Basis. The following factors have been included in evaluating the design of the soil remediation system supplement in the CAP:

1. Design Radius of Influence (ROI)
2. Wellhead Vacuum
3. Vapor Extraction Flow Rate
4. Initial Constituent Vapor Concentrations
5. Required Final Constituent Concentrations
6. Required Remedial Cleanup Time
7. Soil Volume To Be Cleaned
8. Pore Volume Calculations

**SVE Pilot Study Results**

Well Installation. The pilot study commenced operation on May 21, 2014. One of the primary objectives of the pilot study is to determine the radius of influence for injection and extraction well spacing. The pilot system is comprised of 5 vacuum extraction wells and two injection wells as illustrated in Figure 6. The injection wells are located 10 feet apart, and the extraction wells are located as follows.

| Extraction Well | Distance from injection Points (feet) |
|---|---|
| E-1 | 5 |
| E-2 | 10 |
| E-3 | 10 |
| E-4 | 15 |
| E-5 | 15 |

The sequence has been to operate the 5-foot interval well, E-1, first. When breakthrough of the nitrogen is observed by a significant drop in the dissolved oxygen (DO) concentration, then the 10 foot wells, E-2 and E-3, were turned on and monitored in the same manner. The system is currently running with the 15-foot wells (E-4 and E-5) on.

During the initial start up phase of the pilot study, it was determined that the extraction and injection wells had not been properly sealed from the atmosphere. Two grouting operations were conducted to seal the upper 3-4 feet of well casing and screen, as well as the well vaults. After the second grouting was set, significantly lower DO levels were observed in the extraction wells. Preliminary results indicate that an extraction well spacing of between 12-14 feet will be optimal for the site conditions.

**Air Quality**

Exhaust from the extraction wells at the Rayloc site contain volatile organic compounds (VOC) including perchloroethene (PCE), trichloroethene (TCE) and related daughter products such as vinyl chloride generated through the reductive dechlorination process. To comply with Georgia air quality standards the effluent is being treated with activated carbon filtration prior to atmospheric release.

The initial 1,000 pounds of granular activated carbon (GAC) was used until July 10, 2014. At that time a new 1,000 pound load was put in service and lasted until August 24th. The carbon tower now has 2,000 pounds of reactivated carbon that is anticipated to suffice until the initial pilot work is completed in November.

One of the challenges that arose with the GAC was excessive heating of the tower contents during periods of high ambient temperature and direct sunlight on the side wall of the tower. This caused some reactivation of the carbon, releasing VOC in the effluent. Since this only occurred during late morning and early afternoon, it was decided that the GAC would stay in service until actual breakthrough was confirmed.

During the third month of operation, performance data suggested that a 3 day cycle would be more effective in maintaining reductive conditions. The cycle consists of running the SVE system for 24 hours, and then off for 48 hours. The gas injection was flowing continuously throughout the cycle, therefore, the GAC has only to be running one third of the time. The effluent of the GAC tower was monitored using a MultiRAE VOC instrument to ensure the GAC effectiveness.

**Results & Observations**

Over the past 5 months of pilot operations, several key insights into the functioning of the system have been gained. In addition, several challenges have arisen that required modification of operating procedures, physical changes to components, and replacements due to overheating and lightning strikes. In the following sections, these key findings are discussed.

<u>Well Construction</u>. Both vacuum extraction and gas injection wells in the future will be constructed with screens terminating a minimum of 3 feet below grade. It is critical that an adequate seal is achieved to prevent atmospheric connection to the vacuum extraction side of the system.

Vacuum. During the initial operation, the system was operated at vacuum levels ranging from 1 to 6 inches of mercury (in. Hg). It was determined that the best results were achieved in the range 4-5 in. Hg; at lower levels the vacuum was not strong enough to influence a reasonable radius. At above 5 in. Hg, excess moisture was pulled through the system causing a reduction in flow.

Cycling. When the nitrogen was injected for more than 48 hours, oxygen levels in the extraction wells were recorded consistently below 5 parts per million (ppm). However, after the SVE was turned on and run for several hours, the oxygen level would rebound, and the VOC levels would drop significantly. Therefore, an operating procedure was established that involved cycling the SVE system on for 24 hours and off for 48 hours. During the off time, nitrogen displaced the oxygen, and the VOC from the out areas of the radius of influence diffused into the cleaner areas of the zone. In combination with the soil sampling data, we should soon be seeing the results of this cycle in the data.

Mass of VOC. Preliminary calculations based on average VOC levels recorded at each extraction well indicate that approximately 178 pounds of VOC have been extracted from the pilot area during the first 5 months of operation. This was derived using Method 25A assuming a molecular weight of 44.1. The break down by extraction well is shown below.

| Extraction Well | Pounds of VOCs Removed |
|---|---|
| E-1 | 63.4 |
| E-2 | 59.6 |
| E-3 | 54.9 |

### 3.6 Vapor-Intrusion Investigation (Rayloc Building)

Soil-vapor samples will be collected from locations within the Rayloc building to determine whether chlorinated solvents in the site groundwater may have migrated to the building area. These samples will be collected upon completion of the remediation of the impact in the Parts Disassembly & Cleaning Area. This Area is located in an unused area of the Rayloc building, away from any currently used areas. The only area being consistently used currently is the high ceilinged warehouse where the trucks are loaded and unloaded through bay doors using forklifts.

### 3.7 Installation of New Monitoring/Injection Wells

Based on the results of the most recent sentinel well sampling event it is clear that additional injection and sentinel wells are necessary to enhance the remediation of both the soil and groundwater in the source area. Sage will install an additional seven (7) injection wells and three (3) monitoring wells at the site within the next two months. Please refer to Figure 5 for the approximate location of the new wells.

Provided in Appendix B are the Injection Well Schematics for wells A1-I1 through A1-I6, A2-I1 through A2-I4, Pilot Study injection wells I-1 and I-2, and Pilot Study extraction wells E-1 through E-5.

## 4.0 CERTIFICATIONS

### 4.1 Professional Geologist Certification

"I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional geologist who is registered with the Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.

Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and long term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division.

The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

Please refer to Table 4 for a Summary of Professional Oversight Hours.

Jack A. Wintle P.G.
Senior Regulatory Specialist

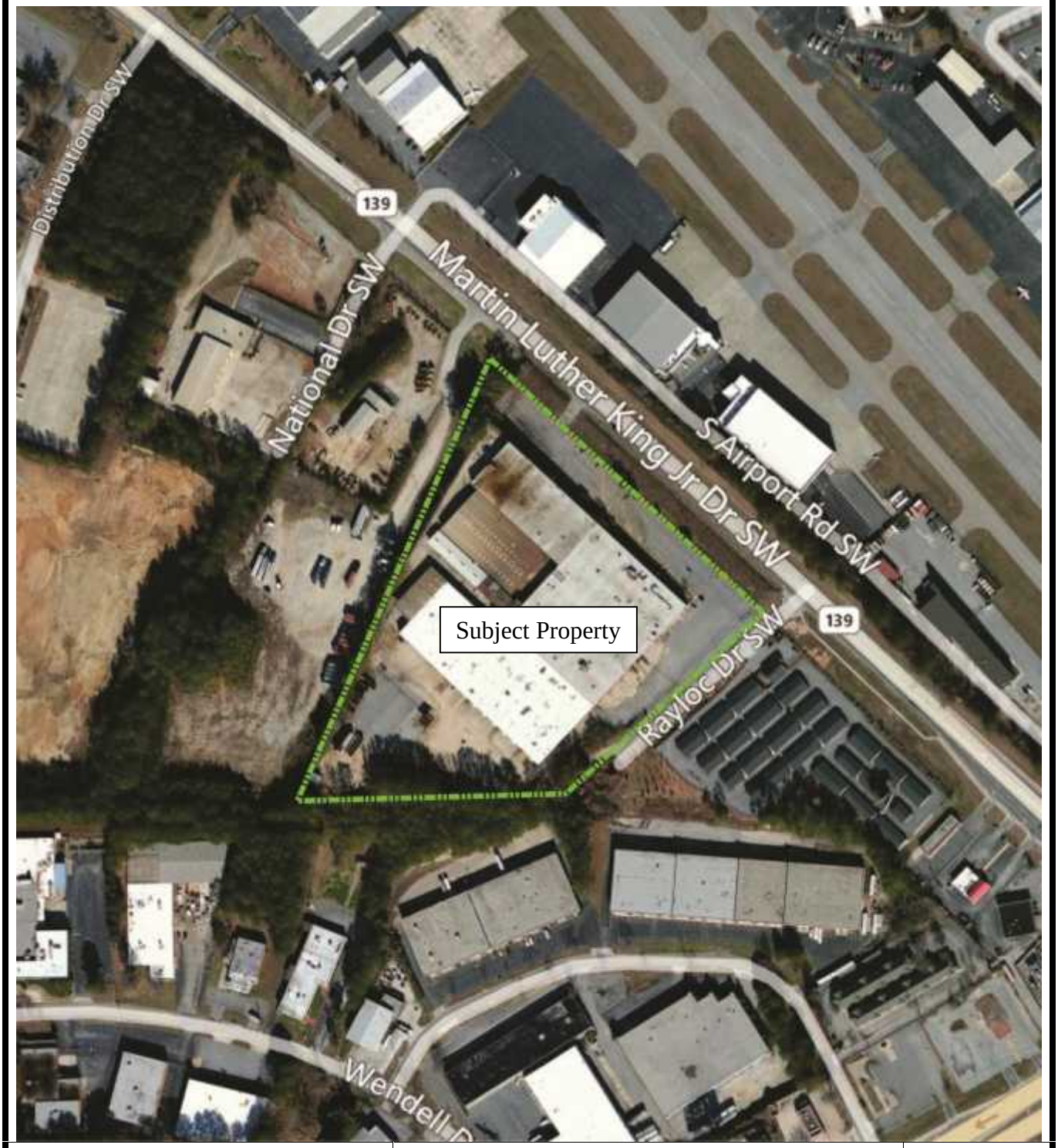
Date: October 10, 2014

### 4.2 CD/DVD Certification

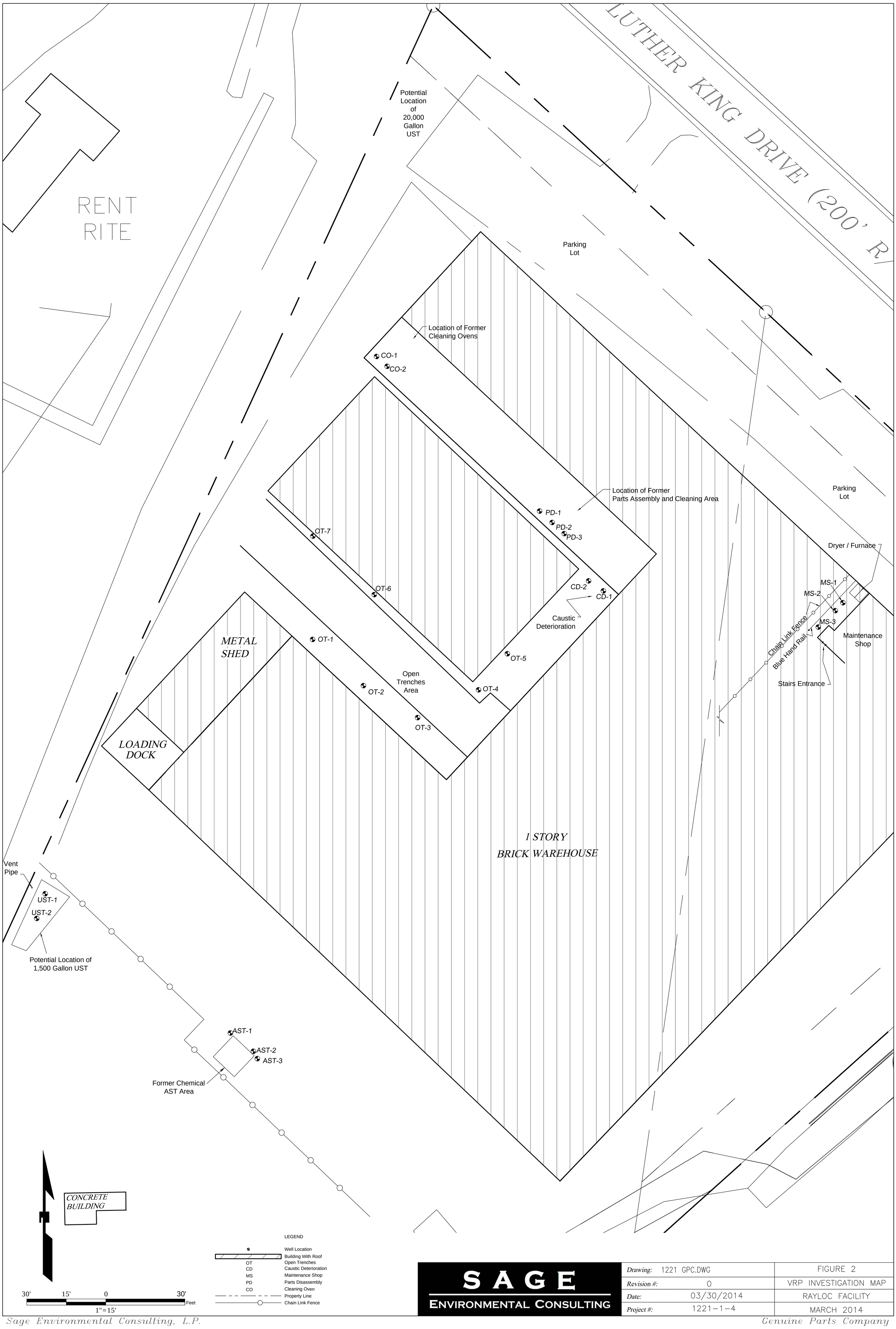
Sage Environmental Consulting, LP (Sage) certifies that this electronic copy of the report identified below is complete, identical to the paper copy, and virus free.

Jack A. Wintle, P.G.
Senior Regulatory Specialist

# FIGURES




| Legend | | Figure 1 – Site Aerial Map | Scale |
|---|---|---|---|
| Map Source: Google Earth | N | **Rayloc Facility**<br>**600 Rayloc Drive**<br>**Atlanta, Fulton County, Georgia** | NTS |
| Map Date: 10-31-2012 | | | |
| Project No.: **1221-1-4** | DA | SAGE ENVIRONMENTAL CONSULTING | **Sage Environmental Consulting, L.P.**<br>**600 Chastain Road, Suite 320**<br>**Kennesaw, Georgia 30144** |

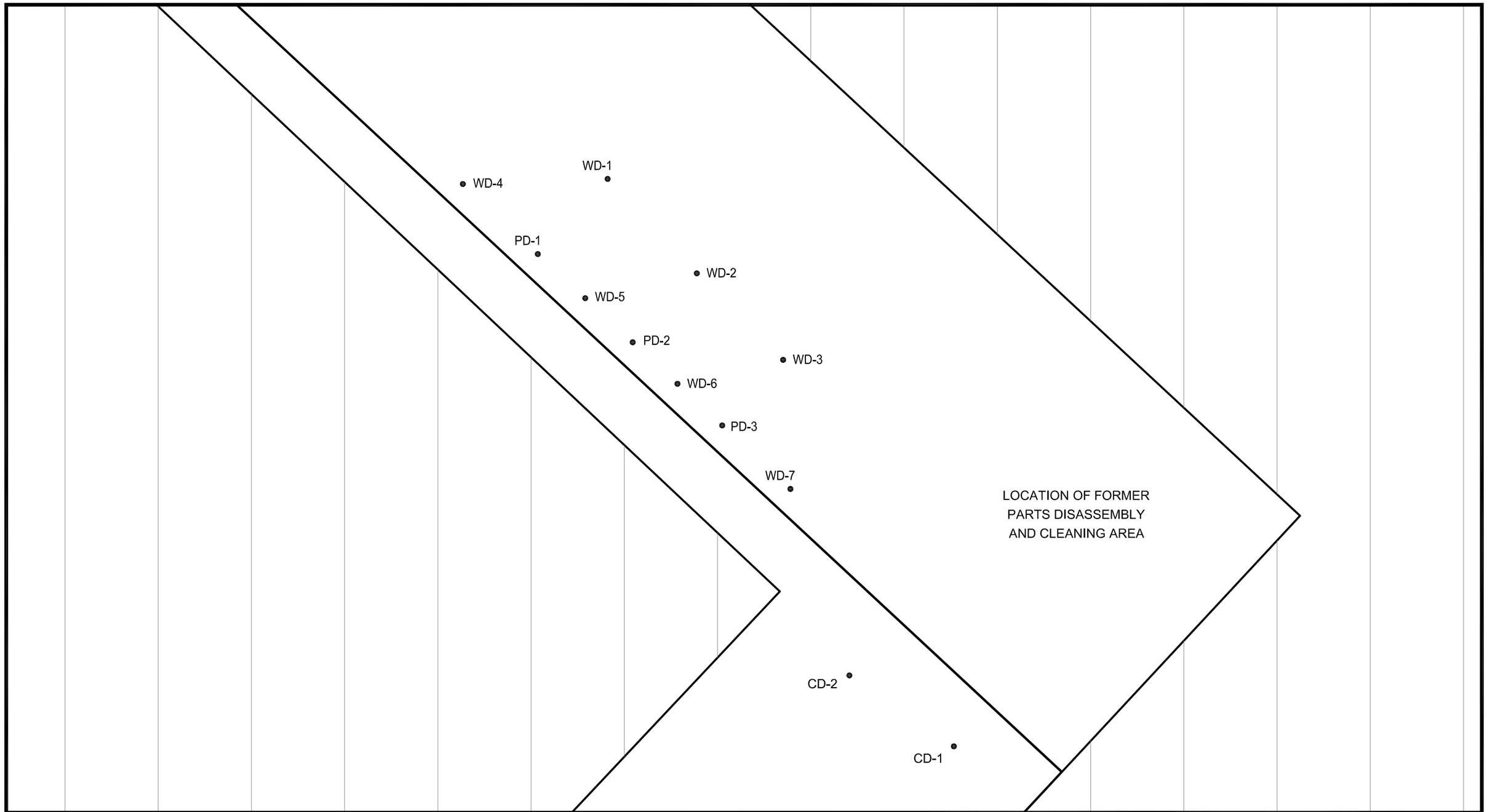



| | | |
|---|---|---|
| SAGE ENVIRONMENTAL CONSULTING | Drawing: 1221 GPC.DWG | FIGURE 2 |
| | Revision #: 0 | VRP INVESTIGATION MAP |
| | Date: 03/30/2014 | RAYLOC FACILITY |
| | Project #: 1221-1-4 | MARCH 2014 |

1221 GPC.dwg

Sage Environmental Consulting, L.P.
March, 2014

Genuine Parts Company
Atlanta, GA




LEGEND

- GW Injection Well
- Soil Sample Boring
- Bedrock Monitoring Well
- Monitoring Well
- Property Line

0 5' 10'
Approximate Scale In Feet

N

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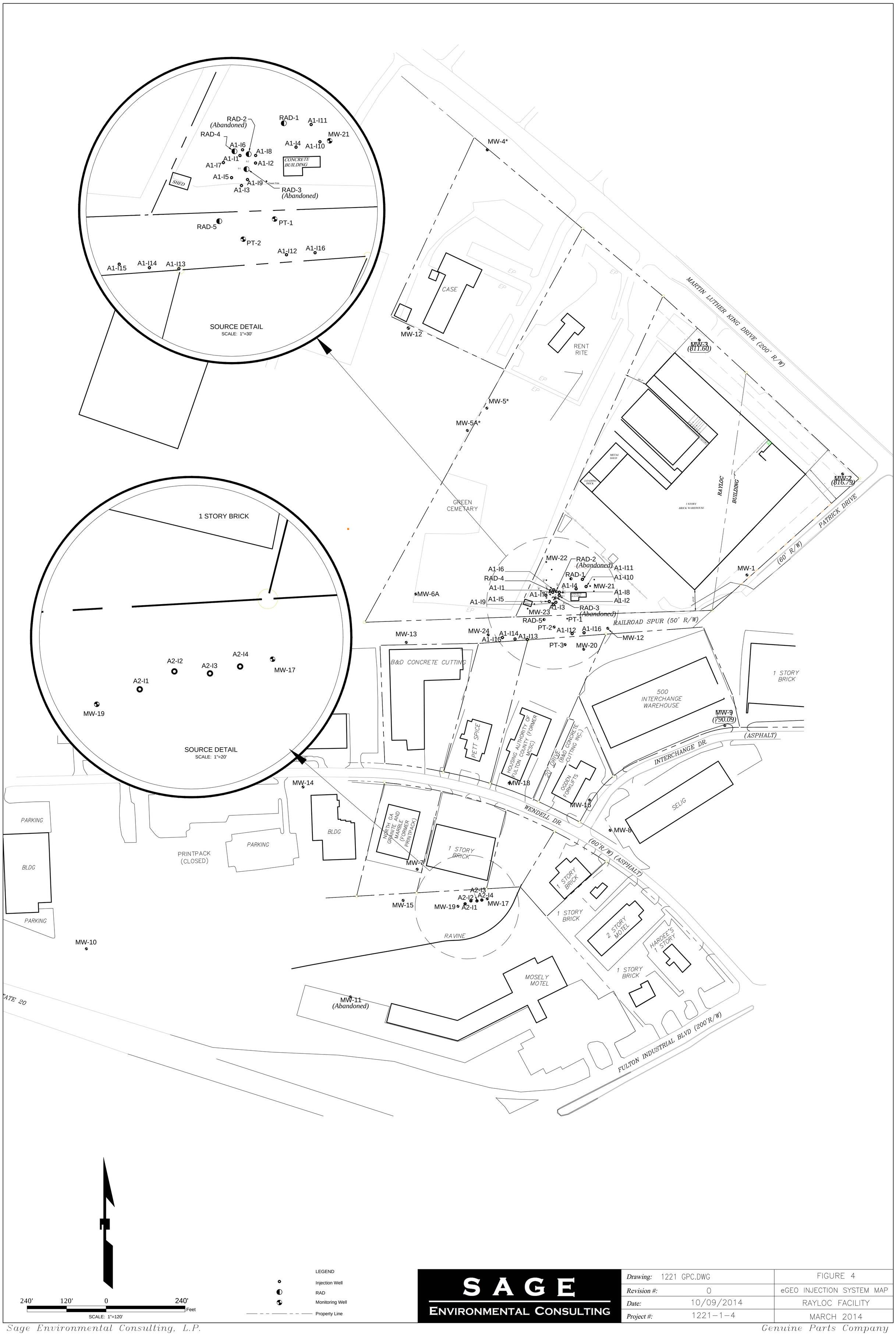
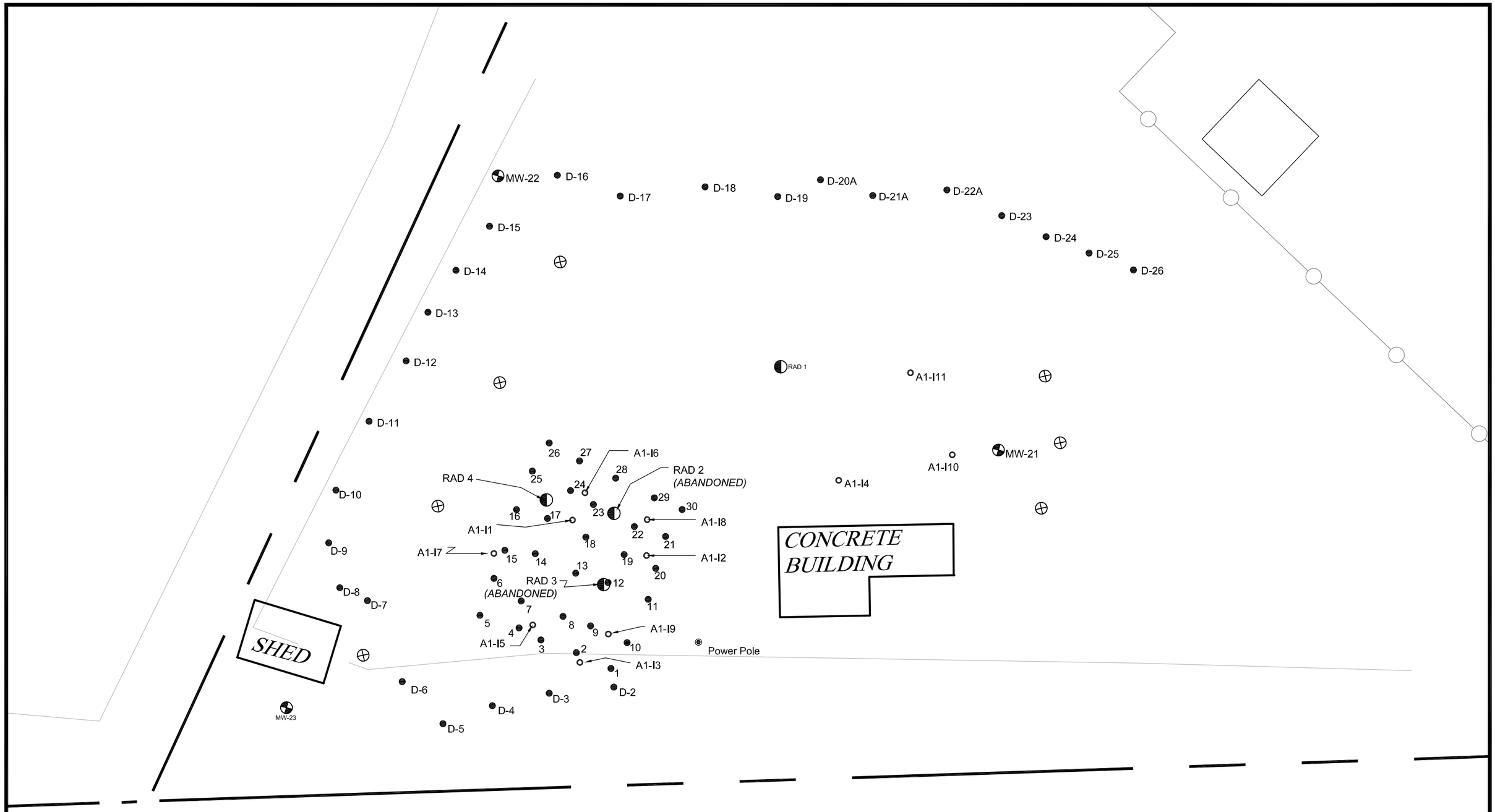
| | | |
|---|---|---|
| Drawing: | 1221 GPC.DWG | FIGURE 3 |
| Revision #: | 0 | VRP PARTS DISASSEMBLY AREA INVESTIGATION MAP |
| Date: | 10/09/2014 | RAYLOC FACILITY |
| Project #: | 1221-1-4 | OCTOBER 2014 |

1221-1-4 GPC.dwg




Sage Environmental Consulting, L.P.
MarcH, 2014

Genuine Parts Company
Atlanta, GA




## LEGEND

- Proposed Injection Well
- GW Injection Well
- Soil Sample Boring
- Bedrock Monitoring Well
- Monitoring Well
- Property Line

0 12.5' 25'
Approximate Scale In Feet

N

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| | | |
|---|---|---|
| Drawing: | 1221 GPC.DWG | FIGURE 5 |
| Revision #: | 0 | SOURCE AREA INVESTIGATION MAP |
| Date: | 10/09/2014 | RAYLOC FACILITY |
| Project #: | 1221-1-4 | OCTOBER 2014 |

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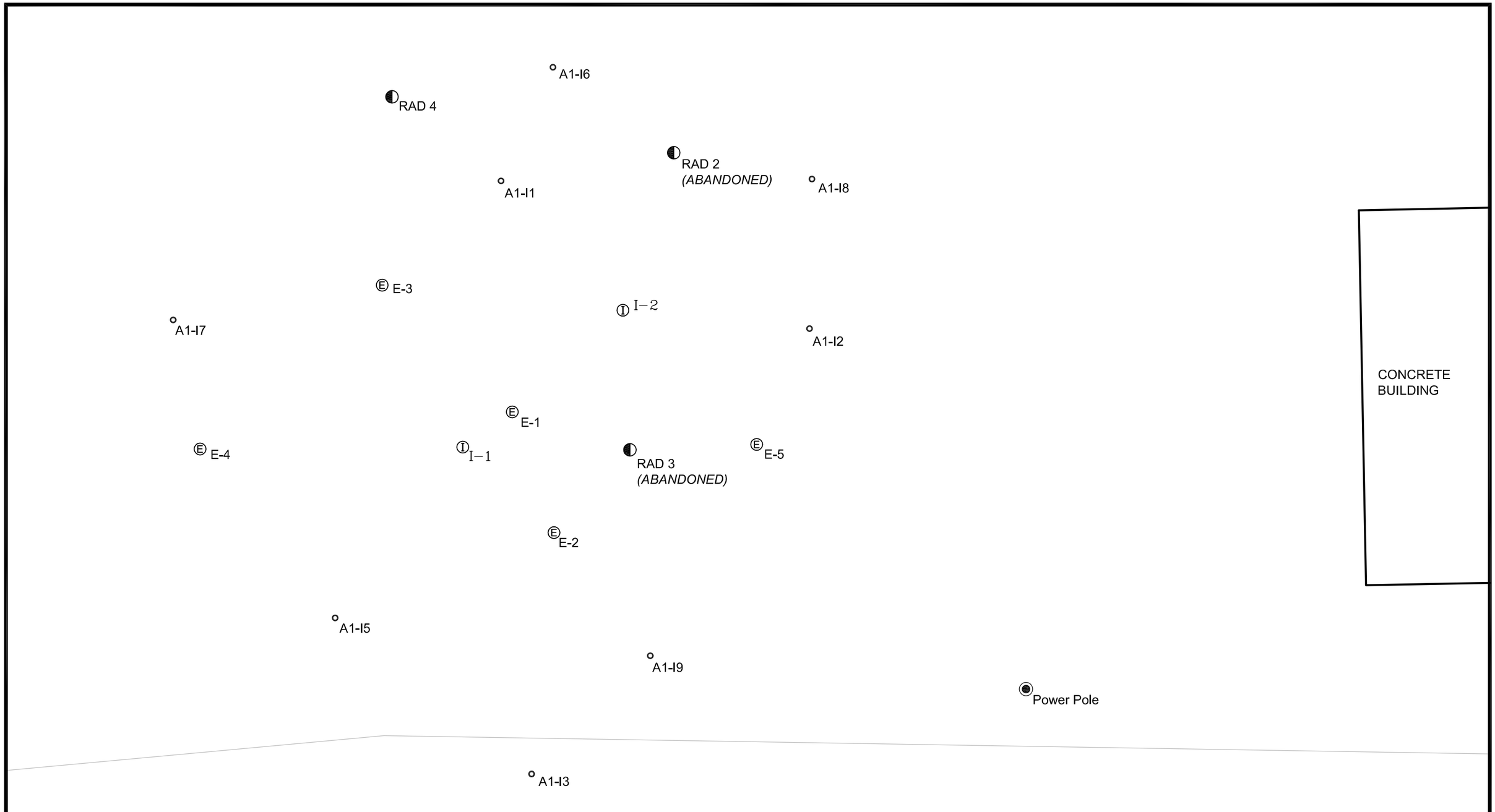


## LEGEND

- Ⓔ Extraction Well
- Ⓘ Soil Injection Well
- ○ GW Injection Well
- ● Soil Sample Boring
- ◐ Bedrock Monitoring Well
- ◕ Monitoring Well

0 3' 6'
Approximate Scale In Feet

N

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| | | |
|---|---|---|
| Drawing: | 1221 GPC.DWG | FIGURE 6 |
| Revision #: | 0 | SOURCE AREA PILOT STUDY |
| Date: | 10/09/2014 | RAYLOC FACILITY |
| Project #: | 1221-1-4 | OCTOBER 2014 |

1221-1-4 GPC.dwg

Sage Environmental Consulting, L.P.
February 2014

Genuine Parts Company
Atlanta, GA

# TABLES

**TABLE 1**
**VRP PID Survey**
**Rayloc VRP Investigation**
**Atlanta, Fulton County, Georgia**
**HSI# 10547**

| Sample ID | Date | Depth (FT) | Result (PPM) |
|---|---|---|---|
| **PD-1** | 1/15/2014 | 2 | 15,000 |
| | | 5 | 3,609 |
| | | 10* | 15,000 |
| **PD-2** | 1/15/2014 | 2 | 31.9 |
| | | 5 | 42.4 |
| | | 10* | 57.1 |
| **PD-3** | 1/15/2014 | 2* | 58.6 |
| | | 5 | 171.1 |
| | | 10* | 20.5 |

* - denotes sample chosen for laboratory analysis.

| Sample ID | Date | Depth (FT) | Result (PPM) |
|---|---|---|---|
| **WD-1** | 8/28/2014 | 5* | 89.3 |
| | | 10 | 74.1 |
| | | 15 | 39.5 |
| | | 20* | 10.1 |
| **WD-2** | 8/28/2014 | 5 | 400.2 |
| | | 10* | 15,000 |
| | | 15 | 11.1 |
| | | 20* | 44.3 |
| **WD-3** | 8/28/2014 | 5* | 40.1 |
| | | 10 | 25.6 |
| | | 15 | 2.5 |
| | | 20* | 10.1 |
| **WD-4** | 8/28/2014 | 5 | 106.8 |
| | | 10* | 15,000 |
| | | 15 | 87.3 |
| | | 20* | 13.6 |
| **WD-5** | 8/28/2014 | 5* | 30.8 |
| | | 10 | 8.7 |
| | | 15 | 4.8 |
| | | 20 | 2.4 |
| | | 25 | 1.0 |
| | | 30* | 0.8 |
| **WD-6** | 8/28/2014 | 5* | 61.3 |
| | | 10 | 19.8 |
| | | 15 | 6.1 |
| | | 20 | 31.1 |
| | | 25 | 4.7 |
| | | 30* | 5.6 |
| **WD-7** | 8/28/2014 | 5* | 182.6 |
| | | 10 | 16.7 |
| | | 15 | 10.0 |
| | | 20* | 11.8 |

* - denotes sample chosen for laboratory analysis.

**Table 2**
**VRP Parts Disassembly Area Investigation Results**
**Rayloc VRP Investigation**
**Atlanta, Fulton County, Georgia**
**HSI# 10547**

| **Sample Location** | **PD-1** | **PD-2** | **PD-3** | **PD-3** | **WD-1** | **WD-1** | **WD-2** | **WD-2** | **WD-3** | **WD-3** | **WD-4** | **WD-4** | **WD-5** | **WD-5** | **WD-6** | **WD-6** | **WD-7** | **WD-7** | **Type III RRS** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample Date** | **1/14/2014** | **1/14/2014** | **1/14/2014** | **1/14/2014** | **8/28/2014** | **8/28/2014** | **8/28/2014** | **8/28/2014** | **8/28/2014** | **8/28/2014** | **8/28/2014** | **8/28/2014** | **8/28/2014** | **8/28/2014** | **8/28/2014** | **8/28/2014** | **8/28/2014** | **8/28/2014** | |
| **Sample Depth** | **10'** | **10'** | **2'** | **10'** | **5'** | **20'** | **10'** | **20'** | **5'** | **20'** | **10'** | **20'** | **5'** | **30'** | **5'** | **30'** | **5'** | **20'** | |
| 1,2,4-Trimethylbenzene | 0.404 | 0.943 | 0.387 | 0.098 | < 0.151 | < 0.247 | < 33.6 | < 0.220 | < 0.187 | < 0.180 | < 46.5 | < 0.302 | < 0.412 | < 0.270 | < 0.134 | < 0.003 | < 0.267 | < 0.004 | NA[2] |
| 1,2-Dichlorobenzene | -- | -- | -- | -- | < 0.151 | < 0.247 | < 33.6 | < 0.220 | < 0.187 | < 0.180 | < 46.5 | < 0.302 | < 0.412 | < 0.270 | < 0.134 | < 0.003 | < 0.267 | < 0.004 | NA[2] |
| 1,2-Dichloroethane | 0.404 | 0.943 | 0.387 | 0.098 | < 0.151 | < 0.247 | < 33.6 | < 0.220 | < 0.187 | < 0.180 | < 46.5 | < 0.302 | < 0.412 | < 0.270 | < 0.134 | < 0.003 | < 0.267 | < 0.004 | NA[2] |
| 1,2-Dichloroethene | -- | -- | -- | -- | **7.90** | < 0.493 | < 67.2 | 0.745 | < 0.374 | < 0.360 | < 93.0 | < 0.605 | 4.78 | < 0.541 | 7.42 | 0.035 | 12.5 | 0.219 | NA[2] |
| 1,3,5-Trimethylbenzene | 0.404 | 0.943 | 0.387 | 0.098 | < 0.151 | < 0.247 | < 33.6 | < 0.220 | < 0.187 | < 0.180 | < 46.5 | < 0.302 | < 0.412 | < 0.270 | < 0.134 | < 0.003 | < 0.267 | < 0.004 | NA[2] |
| 1,4-Dichlorobenzene | 0.404 | 0.943 | 0.387 | 0.098 | < 0.151 | < 0.247 | < 33.6 | < 0.220 | < 0.187 | < 0.180 | < 46.5 | < 0.302 | < 0.412 | < 0.270 | < 0.134 | < 0.003 | < 0.267 | < 0.004 | NA[2] |
| 2-Butanone | 0.404 | 0.943 | 0.387 | 0.098 | < 0.151 | < 0.247 | < 33.6 | < 0.220 | < 0.187 | < 0.180 | < 46.5 | < 0.302 | < 0.412 | < 0.270 | < 0.134 | < 0.003 | < 0.267 | < 0.004 | 200 |
| Acetone | 2.02 | 4.72 | 1.93 | 0.492 | < 0.151 | < 1.23 | < 168 | < 1.10 | < 0.936 | < 0.900 | < 232 | < 1.51 | < 2.06 | < 1.35 | < 0.672 | < 0.016 | < 1.33 | < 0.025 | 400 |
| Benzene | 0.404 | 0.943 | 0.387 | 0.098 | < 0.151 | < 0.247 | < 33.6 | < 0.220 | < 0.187 | < 0.180 | < 46.5 | < 0.302 | < 0.412 | < 0.270 | < 0.134 | < 0.003 | < 0.267 | < 0.004 | NA[2] |
| Bromomethane | -- | -- | -- | -- | < 0.151 | < 0.247 | < 33.6 | < 0.220 | < 0.187 | < 0.180 | < 46.5 | < 0.302 | < 0.412 | < 0.270 | < 0.134 | < 0.003 | < 0.267 | < 0.004 | NA[2] |
| Carbon Disulfide | -- | -- | -- | -- | < 0.151 | < 0.247 | < 33.6 | < 0.220 | < 0.187 | < 0.180 | < 46.5 | < 0.302 | < 0.412 | < 0.270 | < 0.134 | < 0.003 | < 0.267 | < 0.004 | NA[2] |
| Cis-1,2-dichloroethene | 1.73 | 6.79 | **40.2** | 0.415 | 3.46 | < 0.247 | **< 33.6** | 0.729 | 0.281 | < 0.180 | **< 46.5** | < 0.302 | 4.74 | < 0.270 | **7.26** | 0.035 | **10.3** | 0.216 | 7 |
| Ethylbenzene | 0.404 | 0.943 | 0.387 | 0.098 | < 0.151 | < 0.247 | < 33.6 | < 0.220 | < 0.187 | < 0.180 | < 46.5 | < 0.302 | < 0.412 | < 0.270 | < 0.134 | < 0.003 | < 0.267 | < 0.004 | 70 |
| m,p-Xylene | -- | -- | -- | -- | < 0.151 | < 0.247 | < 33.6 | < 0.220 | < 0.187 | < 0.180 | < 46.5 | < 0.302 | < 0.412 | < 0.270 | < 0.134 | < 0.003 | < 0.267 | < 0.004 | NA[2] |
| o-Xylene | -- | -- | -- | -- | < 0.151 | < 0.247 | < 33.6 | < 0.220 | < 0.187 | < 0.180 | < 46.5 | < 0.302 | < 0.412 | < 0.270 | < 0.134 | < 0.003 | < 0.267 | < 0.004 | NA[2] |
| Naphthalene | 0.404 | 0.943 | 0.387 | 0.098 | < 0.151 | < 0.247 | < 33.6 | < 0.220 | < 0.187 | < 0.180 | < 46.5 | < 0.302 | < 0.412 | < 0.270 | < 0.134 | < 0.003 | < 0.267 | < 0.004 | NA[2] |
| Styrene | 0.404 | 0.943 | 0.387 | 0.098 | < 0.151 | < 0.247 | **< 33.6** | < 0.220 | < 0.187 | < 0.180 | **< 46.5** | < 0.302 | < 0.412 | < 0.270 | < 0.134 | < 0.003 | < 0.267 | < 0.004 | 14 |
| Tetrachloroethene | **115** | **103** | **48.7** | **1.02** | **4.89** | 0.425 | **1,670** | **7.87** | **1.04** | 0.484 | **2,190** | 0.360 | **75.5** | 0.357 | < 0.134 | 0.025 | < 0.267 | 0.321 | 0.5 |
| Toluene | 0.404 | 0.943 | 0.387 | 0.098 | < 0.151 | < 0.247 | < 33.6 | < 0.220 | < 0.187 | < 0.180 | < 46.5 | < 0.302 | < 0.412 | < 0.270 | < 0.134 | < 0.003 | < 0.267 | < 0.004 | 100 |
| Trichloroethene | **1.69** | **21.5** | **3.74** | 0.179 | **1.4** | < 0.247 | **< 33.6** | **0.727** | 0.274 | < 0.180 | **< 46.5** | < 0.302 | **1.67** | < 0.270 | 0.235 | 0.007 | < 0.267 | 0.065 | 0.5 |
| Vinyl Chloride | **0.404** | **0.943** | **0.387** | 0.098 | < 0.151 | **< 0.247** | **< 33.6** | **< 0.220** | < 0.187 | < 0.180 | **< 46.5** | **< 0.302** | **< 0.412** | **< 0.270** | **0.211** | < 0.003 | **1.92** | < 0.005 | 0.2 |
| Xylenes, Total | 0.807 | 1.89 | 0.835 | 0.197 | < 0.301 | < 0.493 | < 67.2 | < 0.440 | < 0.374 | < 0.360 | < 93.0 | < 0.605 | < 0.825 | < 0.541 | < 0.269 | < 0.006 | < 0.534 | < 0.009 | 1,000 |

**Notes:**
Matrix: soil
Units: mg/kg
**Indicates detection of compound greater than Type III HSRA RRS**

**Table 3**
**eGeo System Groundwater Sampling Results**
Rayloc Facility and RentRite Property
HSI Site Numbers 10547 and 10548
Atlanta, Georgia

| Analyte | | 1,1-Dichloroethane | 1,1-Dichloroethene | Acetone | Benzene | cis-1,2-DCE | Dichlorofluoromethane | Chloromethane | Methylene Chloride | Tetrachloroethene | Trichloroethene | Trichlorofluoromethane | Vinyl Chloride | Xylenes (Total) | 1,2-Dichlorobenzene | Chlorobenzene | Chloroform | Ethylbenzene | Isopropylbenzene | o-Xylene | m,p-Xylene | Styrene | Toluene | Trans-1,2-dichloroethene | 1,4-dichlorbenzene | 4 Methyl 2-pentanone | Carbon Disulfide | 1,1,2-Trichloroethane | 2-Butanone | 1,1,2,2-Tetrachloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample Location** | **Date** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **MW-7 @ 30'** | Nov-12 | <5.0 | <5.0 | <20.0 | <5.0 | **19.8** | <5.0 | <5.0 | <5.0 | **114** | **32.6** | <5.0 | <1.0 | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <1.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Jul-13 | <5.0 | <5.0 | <20.0 | <5.0 | **6.8** | <5.0 | <5.0 | <5.0 | **35.3** | **9.46** | <5.0 | <5.0 | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Sep-13 | <5.0 | <5.0 | <20.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | **7.28** | <5.0 | <5.0 | <5.0 | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Dec-13 | <5.0 | <5.0 | <20.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | **14.6** | <5.0 | <5.0 | <5.0 | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Mar-14 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | **5.35** | <5.0 | <5.0 | <5.0 | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Jun-14 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | **8.38** | <5.0 | <5.0 | <5.0 | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Sep-14 | <5.0 | <5.0 | <5.0 | <5.0 | **7.59** | <5.0 | <5.0 | <5.0 | **38.2** | **9.17** | <5.0 | <5.0 | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| **MW-12 @ 60'** | Nov-12 | <5.0 | <5.0 | <20.0 | <5.0 | **4.97** | <5.0 | <5.0 | <5.0 | **239** | **13** | <5.0 | <1.0 | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <1.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Jul-13 | <10.0 | <10.0 | <20.0 | <10.0 | **58** | <10.0 | <10.0 | <10.0 | **1250** | <10.0 | <10.0 | <10.0 | <30.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <20 | <10.0 | <10.0 | <10.0 | <10.0 | <10 | <10.0 | <10.0 | <10 | <10.0 |
| | Sep-13 | <10.0 | <10.0 | <20.0 | <10.0 | **105** | <10.0 | <10.0 | <10.0 | **2280** | **16.4** | <10.0 | <10.0 | <30.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <20 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| | Dec-13 | <5.0 | <5.0 | <20.0 | <5.0 | **16.8** | <5.0 | <5.0 | <5.0 | **557** | **10.8** | <5.0 | <5.0 | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Mar-14 | <10.0 | <10.0 | <10.0 | <10.0 | **59.2** | <10.0 | <10.0 | <10.0 | **1,590** | **12.3** | <10.0 | <10.0 | <30.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <20.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| | Jun-14 | <25.0 | <25.0 | <25.0 | <25.0 | **125** | <25.0 | <25.0 | <25.0 | **1,350** | <25.0 | <25.0 | <25.0 | <75.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <50.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 |
| | Sep-14 | <5.0 | <5.0 | <5.0 | <5.0 | **22.2** | <5.0 | <5.0 | <5.0 | **748** | **13.4** | <5.0 | <5.0 | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| **MW-15 @ 30'** | Nov-12 | <5.0 | <5.0 | <20.0 | <5.0 | **93.7** | <5.0 | <5.0 | <5.0 | **156** | **41.9** | <5.0 | **132** | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <1.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Jul-13 | <5.0 | <5.0 | <20.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Sep-13 | <5.0 | <5.0 | <20.0 | <5.0 | **9.15** | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | **6.83** | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Dec-13 | <5.0 | <5.0 | <20.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Mar-14 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Jun-14 | <5.0 | <5.0 | **5.17** | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Sep-14 | <5.0 | <5.0 | <5.0 | <5.0 | **31** | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | **98.8** | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| **MW-17 @ 25'** | Nov-12 | <10.0 | <10.0 | <20.0 | <10.0 | **590** | <10.0 | <10.0 | <10.0 | **1,250** | **275** | <10.0 | **32.1** | <30 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <20 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| | Jul-13 | <5.0 | <5.0 | <20.0 | <5.0 | **588** | <5.0 | <5.0 | <5.0 | **1,370** | **266** | <5.0 | **17.9** | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Sep-13 | <10.0 | <10.0 | <20.0 | <10.0 | **567** | <10.0 | <10.0 | <10.0 | **1,510** | **300** | <10.0 | **33.7** | <30 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <20 | <10.0 | <10.0 | **10.2** | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| | Dec-13 | <10.0 | <10.0 | <20.0 | <10.0 | **514** | <10.0 | <10.0 | <10.0 | **1,330** | **353** | <10.0 | <10.0 | <30 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <20 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| | Mar-14 | <10.0 | <10.0 | <10.0 | <10.0 | **447** | <10.0 | <10.0 | <10.0 | **1,210** | **238** | <10.0 | <10.0 | <30.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <20.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| | Jun-14 | <5.0 | <5.0 | <5.0 | <5.0 | **533** | <5.0 | <5.0 | <5.0 | **1,180** | **235** | <5.0 | <5.0 | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Sep-14 | <5.0 | <5.0 | <5.0 | <5.0 | **382** | <5.0 | <5.0 | <5.0 | **734** | **180** | <5.0 | **5.77** | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| **MW-19 @ 30'** | Nov-12 | <5.0 | <5.0 | <20.0 | <5.0 | **186** | <5.0 | <5.0 | <5.0 | **97** | **19.9** | <5.0 | **58.8** | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <1.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Jul-13 | <5.0 | <5.0 | <20.0 | <5.0 | **96.5** | <5.0 | <5.0 | <5.0 | **69.1** | **14.8** | <5.0 | **28.1** | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Sep-13 | <5.0 | <5.0 | <20.0 | <5.0 | **58.4** | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | **15.4** | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Dec-13 | <5.0 | <5.0 | <20.0 | <5.0 | **61.1** | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | **17.7** | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Mar-14 | <5.0 | <5.0 | <5.0 | <5.0 | **63.2** | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | **14.5** | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Jun-14 | <5.0 | <5.0 | <5.0 | <5.0 | **42.6** | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | **7.29** | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Sep-14 | <5.0 | <5.0 | <5.0 | <5.0 | **66.1** | <5.0 | <5.0 | <5.0 | **9.69** | <5.0 | <5.0 | **15.9** | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| **MW-20 @ 60'** | Mar-13 | <50.0 | <50.0 | <50.0 | <50.0 | **1,110** | <50.0 | <50.0 | <50.0 | **889** | **99.8** | <50.0 | <50.0 | <150 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <100 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 |
| | Jul-13 | <10.0 | <10.0 | <20.0 | <10.0 | **272** | <10.0 | <10.0 | <10.0 | **1,380** | **98.7** | <10.0 | <10.0 | <30.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <20.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10 | <10.0 | <10.0 | <10 | <10.0 |
| | Sep-13 | <10.0 | <10.0 | <20.0 | <10.0 | **784** | <10.0 | <10.0 | <10.0 | **254** | **51.7** | <10.0 | <10.0 | <30.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <20.0 | <10.0 | <10.0 | **11.1** | <10.0 | <10 | <10.0 | <10.0 | <10 | <10.0 |
| | Dec-13 | <10.0 | <10.0 | <20.0 | <10.0 | **165** | <10.0 | <10.0 | <10.0 | **1,270** | **154** | <10.0 | <10.0 | <30.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <20.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| | Mar-14 | <25.0 | <25.0 | <25.0 | <25.0 | **1,890** | <25.0 | <25.0 | <25.0 | **2,850** | **288** | <25.0 | <25.0 | <75.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <50.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 |
| | Jun-14 | <25.0 | <25.0 | <25.0 | <25.0 | **518** | <25.0 | <25.0 | <25.0 | **1,310** | **150** | <25.0 | <25.0 | <75.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <50.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 |
| | Sep-14 | <5.0 | <5.0 | <5.0 | <5.0 | **104** | <5.0 | <5.0 | <5.0 | **1,460** | **140** | <5.0 | <5.0 | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| **MW-21 @ 60'** | Mar-13 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | **40,900** | <2,500 | <2,500 | <2,500 | <7,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <5,000 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 | <2,500 |
| | Jul-13 | <250 | <250 | <250 | <250 | <250 | <250 | <250 | <250 | **65,600** | **693** | <250 | <250 | <750 | <250 | <250 | <250 | <250 | <250 | <.250 | <500 | <250 | <250 | <250 | <250 | <250 | <250 | <250 | <250 | <250 |
| | Sep-13 | <25.0 | <25.0 | <25.0 | <25.0 | **82.9** | <25.0 | <25.0 | <25.0 | **7,520** | **130** | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <50 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 |
| | Dec-13 | <50.0 | <50.0 | <50.0 | <50.0 | **58.4** | <50.0 | <50.0 | <50.0 | **5,760** | **105** | <50.0 | <50.0 | <150 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <100 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 |
| | Mar-14 | <25.0 | <25.0 | <25.0 | <25.0 | **58.2** | <25.0 | <25.0 | <25.0 | **2,410** | **82.2** | <25.0 | <25.0 | <75.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <50.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 |
| | Jun-14 | <50.0 | <50.0 | <50.0 | <50.0 | **83.5** | <50.0 | <50.0 | <50.0 | **7,950** | **187** | <50.0 | <50.0 | <150 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <100.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 |
| | Sep-14 | <250.0 | <250.0 | <250.0 | <250.0 | <250.0 | <250.0 | <250.0 | <250.0 | **38,900** | **738** | <250.0 | <250.0 | <750 | <250.0 | <250.0 | <250.0 | <250.0 | <250.0 | <250.0 | <500.0 | <250.0 | <250.0 | <250.0 | <250.0 | <250.0 | <250.0 | <250.0 | <250.0 | <250.0 |
| **MW-22 @ 60'** | Mar-13 | <250 | <250 | <250 | <250 | **4,270** | <250 | <250 | <250 | **1,120** | **389** | <250 | <250 | <750 | <250 | <250 | <250 | <250 | <250 | <250 | <500 | <250 | <250 | <250 | <250 | <250 | <250 | <250 | <250 | <250 |
| | Jul-13 | <25.0 | <25.0 | <25.0 | <25.0 | **1,910** | <25.0 | <25.0 | <25.0 | **1,270** | **310** | <25.0 | <25.0 | <75.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <50.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 |
| | Sep-13 | <10.0 | **12.6** | <20.0 | <10.0 | **623** | <10.0 | <10.0 | <10.0 | **1,310** | **265** | <10.0 | <10.0 | <30 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <20.0 | <10.0 | <10.0 | **10.1** | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| | Dec-13 | <10.0 | <10.0 | <20.0 | <10.0 | **552** | <10.0 | <10.0 | <10.0 | **1,200** | **239** | <10.0 | <10.0 | <30 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <20.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| | Mar-14 | <25.0 | <25.0 | <25.0 | <25.0 | **2,070** | <25.0 | <25.0 | <25.0 | **2,210** | **347** | <25.0 | <25.0 | <75.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <50.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 |
| | Jun-14 | <25.0 | <25.0 | <25.0 | <25.0 | **800** | <25.0 | <25.0 | <25.0 | **1,090** | **244** | <25.0 | <25.0 | <75.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <50.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 |
| | Sep-14 | <5.0 | <5.0 | <5.0 | <5.0 | **576** | <5.0 | <5.0 | <5.0 | **1,760** | **263** | <5.0 | <5.0 | <15.0 | **5.38** | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| **MW-23 @ 60'** | Mar-13 | <250 | <250 | <250 | <250 | **2,870** | <250 | <250 | <250 | **503** | <250 | <250 | <250 | <750 | <250 | <250 | <250 | <250 | <250 | <250 | <500 | <250 | <250 | <250 | <250 | <250 | <250 | <250 | <250 | <250 |
| | Jul-13 | <5.0 | <5.0 | <25.0 | <5.0 | **2,120** | <10 | <10 | <5.0 | **1,650** | **314** | <5.0 | <5.0 | <15.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5.0 | <10 | <5.0 |
| | Sep-13 | <5.0 | **5.32** | <20.0 | <5.0 | **1,250** | <5.0 | <5.0 | <5.0 | **1,830** | **150** | <5.0 | <5.0 | <15.0 | **6.33** | <5.0 | **9.60** | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | **5.95** | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Dec-13 | <10 | <10 | <20.0 | <10 | **2,750** | <10 | <10 | <10 | **1,270** | **304** | <10 | <10 | <30.0 | **10.5** | <10 | **12.6** | <10 | <10 | <10 | <20.0 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| | Mar-14 | <25.0 | <25.0 | <25.0 | <25.0 | **2,180** | <25.0 | <25.0 | <25.0 | **1,870** | **402** | <25.0 | <25.0 | <75.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <50.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 |
| | Jun-14 | <25.0 | <25.0 | <25.0 | <25.0 | **1,970** | <25.0 | <25.0 | <25.0 | **860** | **328** | <25.0 | <25.0 | <75.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <50.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 |
| | Sep-14 | <25.0 | <25.0 | <25.0 | <25.0 | **2,730** | <25.0 | <25.0 | <25.0 | **2,520** | **541** | <25.0 | <25.0 | <75.0 | **26.1** | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <50.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 |
| **MW-24 @ 30'** | Nov-12 | <5.0 | <5.0 | <20.0 | <5.0 | **458** | <5.0 | <5.0 | <5.0 | **577** | **122** | <5.0 | <1.0 | <15.0 | <5.0 | <5.0 | **14.4** | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | **2.07** | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Jul-13 | <10.0 | <10.0 | <20.0 | <10.0 | **1,040** | <10.0 | <10.0 | <10.0 | **743** | **221** | <10.0 | <10.0 | <30.0 | <10.0 | <10.0 | **16** | <10.0 | <10.0 | <10.0 | <20.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| | Sep-13 | <5.0 | **6.63** | <20.0 | <5.0 | **1,010** | <5.0 | <5.0 | <5.0 | **743** | **212** | <5.0 | <5.0 | <15.0 | <5.0 | <5.0 | **14.6** | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | **11.6** | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Dec-13 | <5.0 | <5.0 | <20.0 | <5.0 | **647** | <5.0 | <5.0 | <5.0 | **356** | **144** | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | **8.76** | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Mar-14 | <10.0 | <10.0 | <10.0 | <10.0 | **960** | <10.0 | <10.0 | <10.0 | **695** | **195** | <10.0 | <10.0 | <30.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <20.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| | Jun-14 | <10.0 | <10.0 | <10.0 | <10.0 | **648** | <10.0 | <10.0 | <10.0 | **385** | **153** | <10.0 | <10.0 | <30.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <20.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| | Sep-14 | <5.0 | <5.0 | <5.0 | <5.0 | **578** | <5.0 | <5.0 | <5.0 | **547** | **139** | <5.0 | <5.0 | <15.0 | <5.0 | <5.0 | **7.07** | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| **PT-3 @ 60'** | Mar-13 | <1,250 | <1,250 | **2,120** | <1,250 | **13,700** | <1,250 | <1,250 | <1,250 | **25,000** | **2,240** | <1,250 | <1,250 | <3,750 | <1,250 | <1,250 | <1,250 | <1,250 | <1,250 | <1,250 | <2,500 | <1,250 | <1,250 | <1,250 | <1,250 | <1,250 | <1,250 | <1,250 | <1,250 | <1,250 |
| | Jul-13 | <250 | <250 | **6,080** | <250 | **21,900** | <250 | <250 | **506** | **43,300** | **3,290** | <250 | <250 | <750 | <250 | <250 | <250 | <250 | <250 | <250 | <500 | <250 | <250 | **389** | <250 | <250 | <250 | <250 | **294** | <250 |
| | Sep-13 | **391** | <250 | **15,700** | <250 | **51,000** | <250 | <250 | **900** | **42,600** | **3,560** | <250 | **270** | <750 | <250 | <250 | <250 | <250 | <250 | <250 | <500 | <250 | **271** | **650** | <250 | **293** | <250 | <250 | **1010** | <250 |
| | Dec-13 | **356** | <250 | **9,460** | <250 | **40,300** | <250 | <250 | **531** | **9,120** | **1,250** | <250 | <250 | <750 | <250 | <250 | <250 | <250 | <250 | <250 | <500 | <250 | <250 | <250 | <250 | <250 | <250 | <250 | **471** | <250 |
| | Mar-14 | <100 | <100 | **496** | <100 | **9,180** | <100 | <100 | **110** | **17,400** | **1,170** | <100 | <100 | <300 | <100 | <100 | <100 | <100 | <100 | <100 | <200 | <100 | <100 | **106** | <100 | <100 | <100 | <100 | <100 | <100 |
| | Jun-14 | <500 | <500 | **13,800** | <500 | **33,200** | <500 | <500 | <500 | **10,900** | **1,390** | <500 | <500 | <1,500 | <500 | <500 | <500 | <500 | <500 | <500 | <1,000 | <500 | <500 | <500 | <500 | <500 | <500 | <500 | <500 | <500 |
| | Sep-14 | <250 | <250 | **1,650** | <250 | **7,460** | <250 | <250 | <250 | **10,200** | **1,010** | <250 | <250 | <750 | <250 | <250 | <250 | <250 | <250 | <250 | <500 | <250 | <250 | <250 | <250 | <250 | <250 | <250 | <250 | <250 |

**Notes:**
The analytical results that exceed the laboratory detection limits are bolded.
ug/L = micrograms per Liter
NS = Not Sampled

**TABLE 4**
**Summary of Professional Oversight Documentation**
**Rayloc VRP Investigation**
**Atlanta, Fulton County, Georgia**
**HSI# 10547**

| Week | Hours | Activity Description |
|---|---|---|
| 4/12 | 19 | Ongoing project work for source area |
| 4/19 | 14 | Ongoing project work for source area |
| 4/26 | 7 | Ongoing project work for source area |
| 5/3 | 6 | Ongoing project work for Rayloc building |
| 5/10 | 4 | Ongoing project work for source area |
| 5/17 | 21 | Ongoing project work for Rayloc building |
| 5/24 | 2 | Ongoing project work for source area |
| 5/31 | 7 | Ongoing project work for Rayloc building |
| 6/7 | 3 | Ongoing project work for source area |
| 6/14 | 4 | Ongoing project work for source area |
| 6/21 | 0 | Ongoing project work for source area |
| 6/28 | 3 | Worked on Semi-Annual Progress Report |
| 7/5 | 11 | Worked on Semi-Annual Progress Report |
| 7/12 | 9 | Ongoing project work for source area |
| 7/19 | 12 | Ongoing project work for source area |
| 7/26 | 7 | Worked on Semi-Annual Progress Report |
| 8/2 | 8 | Ongoing project work for source area |
| 8/9 | 5 | Ongoing project work for source area |
| 8/16 | 3 | Ongoing project work for source area |
| 8/23 | 14 | Ongoing project work for source area |
| 8/30 | 9 | Worked on Semi-Annual Progress Report |
| 9/6 | 9 | Worked on Semi-Annual Progress Report |
| 9/13 | 8 | Ongoing project work for source area |
| 9/20 | 3 | Worked on Semi-Annual Progress Report |
| 9/27 | 16 | Ongoing project work for source area and Semi-Annual Progress Report |
| 10/4 | 28 | Worked on Semi-Annual Progress Report |

# APPENDIX A

*NELAP CERTIFICATE NUMBER 01955*
*DOD ELAP CERTIFICATE NUMBER L13-190*

# ANALYTICAL RESULTS

**PERFORMED BY**


**GULF COAST ANALYTICAL LABORATORIES, INC.**

**7979 Innovation Park Dr.**

**Baton Rouge, LA 70820**


**Report Date** 01/24/2014

**GCAL Report** 214011708

| | |
|---|---|
| ***Deliver To*** | Sage Environmental Services<br>600 Chastain Rd.<br>Kennesaw, GA 30144<br>678-431-0130 |
| ***Attn*** | Jack Wintle |

***Project*** Rayloc URP

CASE NARRATIVE

**Client:** Sage Environmental **Report:** 214011708

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

## VOLATILES MASS SPECTROMETRY

In the EPA 8260B analysis of sample 21401170816 (AST-3 AT 10), Tetrachloroethane was detected at an estimated concentration above the range of calibration. Re-analysis at a dilution was not possible to due limited sample volume. Data was reported as requested by the client.

In the EPA 8260B analysis, sample 21401170809 (MS-1 AT 5) had to be diluted due to the presence of non-target background. This dilution is reflected in the elevated reporting limits.

In the EPA 8260B analysis, samples 21401170801 (PD-1 AT 10), 21401170802 (PD-2 AT 10), 21401170803 (PD-3 AT 2), 21401170804 (PD-3 AT 10), 21401170805 (OT-5 AT 10), 21401170806 (OT-6 AT 5), 21401170815 (AST-2 AT 10), 21401170818 (OT-2 AT 2), 21401170822 (CD-1 AT 5) and 21401170820 (OT-3 AT 2) had to be diluted to bracket the concentration of target compounds within the calibration range of the instrument. The dilution is reflected in elevated detection limits.

## VOLATILES GAS CHROMATOGRAPHY

In the EPA 8015C GRO analysis, sample 21401170826 (UST-1 AT 5) and 21401170827 (UST-2 AT 2) was analyzed at a 50 (methanol extract) dilution. The reporting limit is below the required limit at this dilution. Samples had to be diluted to bracket the concentration of target analyte(s) within the calibration range of the instrument.

## SEMI-VOLATILES GAS CHROMATOGRAPHY

In the EPA 8015C DRO analysis, sample 21401170822 (CD-1 AT 5) had to be diluted to bracket target compounds within the calibration range of the instrument. This is reflected in elevated detection limits.

In the EPA 8015C DRO analysis, the recovery for the surrogate(s) is reported as diluted out for those analyses performed at a 10 or higher dilution.

## MISCELLANEOUS

Sample 21401170828 (TRIP BLANK) was received but was not listed on the chain of custody. The client was contacted and authorized proceeding with analysis. This sample has been added to the COC by the Project Manager after receipt

For Sample 21401170828 (TRIP BLANK), a date, time of collection or sample ID discrepancy between a container label and the chain of custody was noted at receipt.

# Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

**Common Abbreviations Utilized in this Report**

| | |
|---|---|
| **ND** | Indicates the result was Not Detected at the specified RDL |
| **DO** | Indicates the result was Diluted Out |
| **MI** | Indicates the result was subject to Matrix Interference |
| **TNTC** | Indicates the result was Too Numerous To Count |
| **SUBC** | Indicates the analysis was Sub-Contracted |
| **FLD** | Indicates the analysis was performed in the Field |
| **PQL** | Practical Quantitation Limit |
| **MDL** | Method Detection Limit |
| **RDL** | Reporting Detection Limit |
| **00:00** | Reported as a time equivalent to 12:00 AM |

**Reporting Flags Utilized in this Report**

| | |
|---|---|
| **J** | Indicates the result is between the MDL and RDL |
| **U** | Indicates the compound was analyzed for but not detected |
| **B** | Indicates the analyte was detected in the associated Method Blank |

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

_____

Authorized Signature
**GCAL REPORT** 214011708

# Report Sample Summary

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170801 | PD-1 AT 10 | Solid | 01/15/2014 10:50 | 01/17/2014 10:00 |
| 21401170802 | PD-2 AT 10 | Solid | 01/15/2014 10:20 | 01/17/2014 10:00 |
| 21401170803 | PD-3 AT 2 | Solid | 01/15/2014 10:00 | 01/17/2014 10:00 |
| 21401170804 | PD-3 AT 10 | Solid | 01/15/2014 10:00 | 01/17/2014 10:00 |
| 21401170805 | OT-5 AT 10 | Solid | 01/15/2014 14:00 | 01/17/2014 10:00 |
| 21401170806 | OT-6 AT 5 | Solid | 01/15/2014 13:10 | 01/17/2014 10:00 |
| 21401170807 | OT-6 AT 10 | Solid | 01/15/2014 13:10 | 01/17/2014 10:00 |
| 21401170808 | OT-7 AT 2 | Solid | 01/15/2014 12:40 | 01/17/2014 10:00 |
| 21401170809 | MS-1 AT 5 | Solid | 01/15/2014 08:50 | 01/17/2014 10:00 |
| 21401170810 | MS-2 AT 5 | Solid | 01/15/2014 09:00 | 01/17/2014 10:00 |
| 21401170811 | MS-3 AT 10 | Solid | 01/15/2014 09:15 | 01/17/2014 10:00 |
| 21401170812 | CO-1 AT 10 | Solid | 01/15/2014 11:15 | 01/17/2014 10:00 |
| 21401170813 | CO-2 AT 5 | Solid | 01/15/2014 11:00 | 01/17/2014 10:00 |
| 21401170814 | AST-1 AT 10 | Solid | 01/14/2014 10:50 | 01/17/2014 10:00 |
| 21401170815 | AST-2 AT 10 | Solid | 01/14/2014 11:00 | 01/17/2014 10:00 |
| 21401170816 | AST-3 AT 10 | Solid | 01/14/2014 11:15 | 01/17/2014 10:00 |
| 21401170817 | OT-1 AT 10 | Solid | 01/14/2014 11:33 | 01/17/2014 10:00 |
| 21401170818 | OT-2 AT 2 | Solid | 01/14/2014 12:10 | 01/17/2014 10:00 |
| 21401170819 | OT-3 AT 10 | Solid | 01/14/2014 14:00 | 01/17/2014 10:00 |
| 21401170820 | OT-3 AT 2 | Solid | 01/14/2014 14:00 | 01/17/2014 10:00 |
| 21401170821 | OT-4 AT 10 | Solid | 01/14/2014 15:00 | 01/17/2014 10:00 |
| 21401170822 | CD-1 AT 5 | Solid | 01/14/2014 14:40 | 01/17/2014 10:00 |
| 21401170823 | CD-1 AT 10 | Solid | 01/14/2014 14:40 | 01/17/2014 10:00 |
| 21401170824 | CD-2 AT 5 | Solid | 01/14/2014 14:20 | 01/17/2014 10:00 |
| 21401170825 | OT-0-2 AT 10 | Solid | 01/14/2014 12:10 | 01/17/2014 10:00 |
| 21401170826 | UST-1 AT 5 | Solid | 01/15/2014 15:00 | 01/17/2014 10:00 |
| 21401170827 | UST-2 AT 2 | Solid | 01/15/2014 15:05 | 01/17/2014 10:00 |
| 21401170828 | TRIP BLANK | Water | 01/14/2014 00:00 | 01/17/2014 10:00 |

# Summary of Compounds Detected

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170801 | **PD-1 AT 10** | Solid | 01/15/2014 10:50 | 01/17/2014 10:00 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 115000 | 4040 | | ug/Kg |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 1730 | 807 | | ug/Kg |
| 79-01-6 | Trichloroethene | 1690 | 404 | | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 1730 | 404 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170802 | **PD-2 AT 10** | Solid | 01/15/2014 10:20 | 01/17/2014 10:00 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 103000 | 3770 | | ug/Kg |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 7040 | 1890 | | ug/Kg |
| 79-01-6 | Trichloroethene | 21500 | 943 | | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 6790 | 943 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170803 | **PD-3 AT 2** | Solid | 01/15/2014 10:00 | 01/17/2014 10:00 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 79-01-6 | Trichloroethene | 3740 | 387 | | ug/Kg |
| 1330-20-7 | Xylene (total) | 835 | 774 | | ug/Kg |
| 136777-61-2 | m,p-Xylene | 574 | 387 | | ug/Kg |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 40200 | 7740 | | ug/Kg |
| 127-18-4 | Tetrachloroethene | 48700 | 3870 | | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 40200 | 3870 | | ug/Kg |

# Summary of Compounds Detected (con't)

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170804 | **PD-3 AT 10** | Solid | 01/15/2014 10:00 | 01/17/2014 10:00 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 415 | 197 | | ug/Kg |
| 127-18-4 | Tetrachloroethene | 1020 | 98.3 | | ug/Kg |
| 79-01-6 | Trichloroethene | 179 | 98.3 | | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 415 | 98.3 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170805 | **OT-5 AT 10** | Solid | 01/15/2014 14:00 | 01/17/2014 10:00 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 645 | 117 | | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 159 | 117 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170806 | **OT-6 AT 5** | Solid | 01/15/2014 13:10 | 01/17/2014 10:00 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 1350 | 230 | | ug/Kg |
| 67-64-1 | Acetone | 710 | 576 | | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 1350 | 115 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170807 | **OT-6 AT 10** | Solid | 01/15/2014 13:10 | 01/17/2014 10:00 |

## EPA 9071B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| C-007 | Oil and Grease | 485 | 485 | | mg/kg |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 15.5 | 4.15 | | ug/Kg |
| 67-64-1 | Acetone | 14.5 | 10.4 | | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 15.5 | 2.07 | | ug/Kg |

# Summary of Compounds Detected (con't)

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170808 | OT-7 AT 2 | Solid | 01/15/2014 12:40 | 01/17/2014 10:00 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 16.9 | 9.40 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170809 | MS-1 AT 5 | Solid | 01/15/2014 08:50 | 01/17/2014 10:00 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 11.5 | 10.0 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170810 | MS-2 AT 5 | Solid | 01/15/2014 09:00 | 01/17/2014 10:00 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 78-93-3 | 2-Butanone | 2.14 | 1.76 | | ug/Kg |
| 67-64-1 | Acetone | 22.0 | 8.78 | | ug/Kg |
| 127-18-4 | Tetrachloroethene | 7.67 | 1.76 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170812 | CO-1 AT 10 | Solid | 01/15/2014 11:15 | 01/17/2014 10:00 |

EPA 8015C

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| GCSV-00-4 | Diesel Range Organics | 4950 | 4000 | | ug/Kg |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 8.41 | 3.74 | | ug/Kg |
| 91-20-3 | Naphthalene | 2.24 | 1.87 | | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 8.41 | 1.87 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170813 | CO-2 AT 5 | Solid | 01/15/2014 11:00 | 01/17/2014 10:00 |

EPA 8015C

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| GCSV-00-4 | Diesel Range Organics | 12600 | 4000 | | ug/Kg |

# Summary of Compounds Detected (con't)

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170815 | AST-2 AT 10 | Solid | 01/14/2014 11:00 | 01/17/2014 10:00 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 694 | 324 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170816 | AST-3 AT 10 | Solid | 01/14/2014 11:15 | 01/17/2014 10:00 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 177 | 1.95 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170817 | OT-1 AT 10 | Solid | 01/14/2014 11:33 | 01/17/2014 10:00 |

EPA 9071B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| C-007 | Oil and Grease | 1300 | 485 | | mg/kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170818 | OT-2 AT 2 | Solid | 01/14/2014 12:10 | 01/17/2014 10:00 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 185 | 99.0 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170819 | OT-3 AT 10 | Solid | 01/14/2014 14:00 | 01/17/2014 10:00 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 26.0 | 4.08 | | ug/Kg |
| 78-93-3 | 2-Butanone | 2.90 | 2.04 | | ug/Kg |
| 127-18-4 | Tetrachloroethene | 76.8 | 2.04 | | ug/Kg |
| 79-01-6 | Trichloroethene | 10.8 | 2.04 | | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 26.0 | 2.04 | | ug/Kg |

# Summary of Compounds Detected (con't)

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170820 | OT-3 AT 2 | Solid | 01/14/2014 14:00 | 01/17/2014 10:00 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 79-01-6 | Trichloroethene | 186 | 79.5 | | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 139 | 79.5 | | ug/Kg |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 9900 | 397 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170821 | OT-4 AT 10 | Solid | 01/14/2014 15:00 | 01/17/2014 10:00 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 36.1 | 5.41 | | ug/Kg |
| 127-18-4 | Tetrachloroethene | 58.2 | 2.70 | | ug/Kg |
| 79-01-6 | Trichloroethene | 7.00 | 2.70 | | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 36.1 | 2.70 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170822 | CD-1 AT 5 | Solid | 01/14/2014 14:40 | 01/17/2014 10:00 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 108-67-8 | 1,3,5-Trimethylbenzene | 923 | 67.2 | | ug/Kg |
| 100-41-4 | Ethylbenzene | 206 | 67.2 | | ug/Kg |
| 91-20-3 | Naphthalene | 878 | 67.2 | | ug/Kg |
| 1330-20-7 | Xylene (total) | 948 | 134 | | ug/Kg |
| 136777-61-2 | m,p-Xylene | 547 | 67.2 | | ug/Kg |
| 104-51-8 | n-Butylbenzene | 165 | 67.2 | | ug/Kg |
| 103-65-1 | n-Propylbenzene | 240 | 67.2 | | ug/Kg |
| 95-47-6 | o-Xylene | 402 | 67.2 | | ug/Kg |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | 2630 | 336 | | ug/Kg |

## EPA 8015C

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| GCSV-00-4 | Diesel Range Organics | 494000 | 40000 | | ug/Kg |

# Summary of Compounds Detected (con't)

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170823 | **CD-1 AT 10** | Solid | 01/14/2014 14:40 | 01/17/2014 10:00 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **10.3** | **2.13** | | **ug/Kg** |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170824 | **CD-2 AT 5** | Solid | 01/14/2014 14:20 | 01/17/2014 10:00 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **21.6** | **2.23** | | **ug/Kg** |
| **156-59-2** | **cis-1,2-Dichloroethene** | **2.99** | **2.23** | | **ug/Kg** |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170801 | **PD-1 AT 10** | Solid | 01/15/2014 10:50 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 2000 | 01/22/2014 09:49 | LBH | 524047 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **115000** | **4040** | | **ug/Kg** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 40400 | 39900 | ug/Kg | 99 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 40400 | 39000 | ug/Kg | 97 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 40400 | 40800 | ug/Kg | 101 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 40400 | 38900 | ug/Kg | 96 | 62 - 125 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 200 | 01/22/2014 10:08 | LBH | 524047 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 404 | | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 404 | | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 404 | | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 404 | | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 404 | | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 404 | | ug/Kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 404 | | ug/Kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 404 | | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 404 | | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 404 | | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 404 | | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 404 | | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 404 | | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 404 | | ug/Kg |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **1730** | **807** | | **ug/Kg** |
| 78-87-5 | 1,2-Dichloropropane | ND | 404 | | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 404 | | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 404 | | ug/Kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 404 | | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 404 | | ug/Kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 404 | | ug/Kg |
| 78-93-3 | 2-Butanone | ND | 404 | | ug/Kg |
| 95-49-8 | 2-Chlorotoluene | ND | 404 | | ug/Kg |
| 591-78-6 | 2-Hexanone | ND | 404 | | ug/Kg |
| 106-43-4 | 4-Chlorotoluene | ND | 404 | | ug/Kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 404 | | ug/Kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 404 | | ug/Kg |
| 67-64-1 | Acetone | ND | 2020 | | ug/Kg |
| 71-43-2 | Benzene | ND | 404 | | ug/Kg |
| 108-86-1 | Bromobenzene | ND | 404 | | ug/Kg |
| 74-97-5 | Bromochloromethane | ND | 404 | | ug/Kg |
| 75-27-4 | Bromodichloromethane | ND | 404 | | ug/Kg |
| 75-25-2 | Bromoform | ND | 404 | | ug/Kg |
| 74-83-9 | Bromomethane | ND | 404 | | ug/Kg |
| 75-15-0 | Carbon disulfide | ND | 404 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170801 | **PD-1 AT 10** | Solid | 01/15/2014 10:50 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 200 | 01/22/2014 10:08 | LBH | 524047 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | ND | 404 | | ug/Kg |
| 108-90-7 | Chlorobenzene | ND | 404 | | ug/Kg |
| 75-00-3 | Chloroethane | ND | 404 | | ug/Kg |
| 67-66-3 | Chloroform | ND | 404 | | ug/Kg |
| 74-87-3 | Chloromethane | ND | 404 | | ug/Kg |
| 124-48-1 | Dibromochloromethane | ND | 404 | | ug/Kg |
| 74-95-3 | Dibromomethane | ND | 404 | | ug/Kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 404 | | ug/Kg |
| 100-41-4 | Ethylbenzene | ND | 404 | | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | ND | 404 | | ug/Kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 404 | | ug/Kg |
| 74-88-4 | Methyl iodide | ND | 404 | | ug/Kg |
| 75-09-2 | Methylene chloride | ND | 807 | | ug/Kg |
| 91-20-3 | Naphthalene | ND | 404 | | ug/Kg |
| 100-42-5 | Styrene | ND | 404 | | ug/Kg |
| 108-88-3 | Toluene | ND | 404 | | ug/Kg |
| **79-01-6** | **Trichloroethene** | **1690** | **404** | | **ug/Kg** |
| 75-69-4 | Trichlorofluoromethane | ND | 404 | | ug/Kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 404 | | ug/Kg |
| 75-01-4 | Vinyl chloride | ND | 404 | | ug/Kg |
| 1330-20-7 | Xylene (total) | ND | 807 | | ug/Kg |
| **156-59-2** | **cis-1,2-Dichloroethene** | **1730** | **404** | | **ug/Kg** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 404 | | ug/Kg |
| 136777-61-2 | m,p-Xylene | ND | 404 | | ug/Kg |
| 104-51-8 | n-Butylbenzene | ND | 404 | | ug/Kg |
| 103-65-1 | n-Propylbenzene | ND | 404 | | ug/Kg |
| 95-47-6 | o-Xylene | ND | 404 | | ug/Kg |
| 135-98-8 | sec-Butylbenzene | ND | 404 | | ug/Kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 404 | | ug/Kg |
| 98-06-6 | tert-Butylbenzene | ND | 404 | | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 404 | | ug/Kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 404 | | ug/Kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 404 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 4040 | 4060 | ug/Kg | 101 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 4040 | 3900 | ug/Kg | 97 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 4040 | 4020 | ug/Kg | 100 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 4040 | 3820 | ug/Kg | 95 | 62 - 125 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170801 | **PD-1 AT 10** | Solid | 01/15/2014 10:50 | 01/17/2014 10:00 |

## EPA 9071B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| 01/17/2014 14:30 | 523768 | EPA 9071B | 1 | 01/20/2014 09:00 | AEL | 523839 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| C-007 | Oil and Grease | ND | 490 | | mg/kg |

RESULTS REPORTED ON A WET WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170802 | **PD-2 AT 10** | Solid | 01/15/2014 10:20 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 2000 | 01/22/2014 11:27 | LBH | 524047 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **103000** | **3770** | | **ug/Kg** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 37700 | 38800 | ug/Kg | 103 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 37700 | 36500 | ug/Kg | 97 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 37700 | 38700 | ug/Kg | 103 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 37700 | 37100 | ug/Kg | 98 | 62 - 125 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 500 | 01/22/2014 11:47 | LBH | 524047 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 943 | | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 943 | | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 943 | | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 943 | | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 943 | | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 943 | | ug/Kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 943 | | ug/Kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 943 | | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 943 | | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 943 | | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 943 | | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 943 | | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 943 | | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 943 | | ug/Kg |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **7040** | **1890** | | **ug/Kg** |
| 78-87-5 | 1,2-Dichloropropane | ND | 943 | | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 943 | | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 943 | | ug/Kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 943 | | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 943 | | ug/Kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 943 | | ug/Kg |
| 78-93-3 | 2-Butanone | ND | 943 | | ug/Kg |
| 95-49-8 | 2-Chlorotoluene | ND | 943 | | ug/Kg |
| 591-78-6 | 2-Hexanone | ND | 943 | | ug/Kg |
| 106-43-4 | 4-Chlorotoluene | ND | 943 | | ug/Kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 943 | | ug/Kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 943 | | ug/Kg |
| 67-64-1 | Acetone | ND | 4720 | | ug/Kg |
| 71-43-2 | Benzene | ND | 943 | | ug/Kg |
| 108-86-1 | Bromobenzene | ND | 943 | | ug/Kg |
| 74-97-5 | Bromochloromethane | ND | 943 | | ug/Kg |
| 75-27-4 | Bromodichloromethane | ND | 943 | | ug/Kg |
| 75-25-2 | Bromoform | ND | 943 | | ug/Kg |
| 74-83-9 | Bromomethane | ND | 943 | | ug/Kg |
| 75-15-0 | Carbon disulfide | ND | 943 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170802 | **PD-2 AT 10** | Solid | 01/15/2014 10:20 | 01/17/2014 10:00 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 500 | 01/22/2014 11:47 | LBH | 524047 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | ND | 943 | | ug/Kg |
| 108-90-7 | Chlorobenzene | ND | 943 | | ug/Kg |
| 75-00-3 | Chloroethane | ND | 943 | | ug/Kg |
| 67-66-3 | Chloroform | ND | 943 | | ug/Kg |
| 74-87-3 | Chloromethane | ND | 943 | | ug/Kg |
| 124-48-1 | Dibromochloromethane | ND | 943 | | ug/Kg |
| 74-95-3 | Dibromomethane | ND | 943 | | ug/Kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 943 | | ug/Kg |
| 100-41-4 | Ethylbenzene | ND | 943 | | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | ND | 943 | | ug/Kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 943 | | ug/Kg |
| 74-88-4 | Methyl iodide | ND | 943 | | ug/Kg |
| 75-09-2 | Methylene chloride | ND | 1890 | | ug/Kg |
| 91-20-3 | Naphthalene | ND | 943 | | ug/Kg |
| 100-42-5 | Styrene | ND | 943 | | ug/Kg |
| 108-88-3 | Toluene | ND | 943 | | ug/Kg |
| **79-01-6** | **Trichloroethene** | **21500** | **943** | | **ug/Kg** |
| 75-69-4 | Trichlorofluoromethane | ND | 943 | | ug/Kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 943 | | ug/Kg |
| 75-01-4 | Vinyl chloride | ND | 943 | | ug/Kg |
| 1330-20-7 | Xylene (total) | ND | 1890 | | ug/Kg |
| **156-59-2** | **cis-1,2-Dichloroethene** | **6790** | **943** | | **ug/Kg** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 943 | | ug/Kg |
| 136777-61-2 | m,p-Xylene | ND | 943 | | ug/Kg |
| 104-51-8 | n-Butylbenzene | ND | 943 | | ug/Kg |
| 103-65-1 | n-Propylbenzene | ND | 943 | | ug/Kg |
| 95-47-6 | o-Xylene | ND | 943 | | ug/Kg |
| 135-98-8 | sec-Butylbenzene | ND | 943 | | ug/Kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 943 | | ug/Kg |
| 98-06-6 | tert-Butylbenzene | ND | 943 | | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 943 | | ug/Kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 943 | | ug/Kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 943 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 9430 | 9500 | ug/Kg | 101 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 9430 | 9230 | ug/Kg | 98 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 9430 | 9630 | ug/Kg | 102 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 9430 | 9270 | ug/Kg | 98 | 62 - 125 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170802 | **PD-2 AT 10** | Solid | 01/15/2014 10:20 | 01/17/2014 10:00 |

## EPA 9071B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| 01/17/2014 14:30 | 523768 | EPA 9071B | 1 | 01/20/2014 09:00 | AEL | 523839 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| C-007 | Oil and Grease | ND | 500 | | mg/kg |

RESULTS REPORTED ON A WET WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170803 | **PD-3 AT 2** | Solid | 01/15/2014 10:00 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 2500 | 01/22/2014 12:27 | LBH | 524047 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **540-59-0** | **1,2-Dichloroethene(Total)** | **40200** | **7740** | | **ug/Kg** |
| **127-18-4** | **Tetrachloroethene** | **48700** | **3870** | | **ug/Kg** |
| **156-59-2** | **cis-1,2-Dichloroethene** | **40200** | **3870** | | **ug/Kg** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 38700 | 38700 | ug/Kg | 100 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 38700 | 38000 | ug/Kg | 98 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 38700 | 40000 | ug/Kg | 103 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 38700 | 38200 | ug/Kg | 99 | 62 - 125 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 250 | 01/22/2014 12:47 | LBH | 524047 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 387 | | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 387 | | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 387 | | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 387 | | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 387 | | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 387 | | ug/Kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 387 | | ug/Kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 387 | | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 387 | | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 387 | | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 387 | | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 387 | | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 387 | | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 387 | | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | ND | 387 | | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 387 | | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 387 | | ug/Kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 387 | | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 387 | | ug/Kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 387 | | ug/Kg |
| 78-93-3 | 2-Butanone | ND | 387 | | ug/Kg |
| 95-49-8 | 2-Chlorotoluene | ND | 387 | | ug/Kg |
| 591-78-6 | 2-Hexanone | ND | 387 | | ug/Kg |
| 106-43-4 | 4-Chlorotoluene | ND | 387 | | ug/Kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 387 | | ug/Kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 387 | | ug/Kg |
| 67-64-1 | Acetone | ND | 1930 | | ug/Kg |
| 71-43-2 | Benzene | ND | 387 | | ug/Kg |
| 108-86-1 | Bromobenzene | ND | 387 | | ug/Kg |
| 74-97-5 | Bromochloromethane | ND | 387 | | ug/Kg |
| 75-27-4 | Bromodichloromethane | ND | 387 | | ug/Kg |
| 75-25-2 | Bromoform | ND | 387 | | ug/Kg |
| 74-83-9 | Bromomethane | ND | 387 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170803 | **PD-3 AT 2** | Solid | 01/15/2014 10:00 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 250 | 01/22/2014 12:47 | LBH | 524047 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 75-15-0 | Carbon disulfide | ND | 387 | | ug/Kg |
| 56-23-5 | Carbon tetrachloride | ND | 387 | | ug/Kg |
| 108-90-7 | Chlorobenzene | ND | 387 | | ug/Kg |
| 75-00-3 | Chloroethane | ND | 387 | | ug/Kg |
| 67-66-3 | Chloroform | ND | 387 | | ug/Kg |
| 74-87-3 | Chloromethane | ND | 387 | | ug/Kg |
| 124-48-1 | Dibromochloromethane | ND | 387 | | ug/Kg |
| 74-95-3 | Dibromomethane | ND | 387 | | ug/Kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 387 | | ug/Kg |
| 100-41-4 | Ethylbenzene | ND | 387 | | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | ND | 387 | | ug/Kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 387 | | ug/Kg |
| 74-88-4 | Methyl iodide | ND | 387 | | ug/Kg |
| 75-09-2 | Methylene chloride | ND | 774 | | ug/Kg |
| 91-20-3 | Naphthalene | ND | 387 | | ug/Kg |
| 100-42-5 | Styrene | ND | 387 | | ug/Kg |
| 108-88-3 | Toluene | ND | 387 | | ug/Kg |
| **79-01-6** | **Trichloroethene** | **3740** | **387** | | **ug/Kg** |
| 75-69-4 | Trichlorofluoromethane | ND | 387 | | ug/Kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 387 | | ug/Kg |
| 75-01-4 | Vinyl chloride | ND | 387 | | ug/Kg |
| **1330-20-7** | **Xylene (total)** | **835** | **774** | | **ug/Kg** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 387 | | ug/Kg |
| **136777-61-2** | **m,p-Xylene** | **574** | **387** | | **ug/Kg** |
| 104-51-8 | n-Butylbenzene | ND | 387 | | ug/Kg |
| 103-65-1 | n-Propylbenzene | ND | 387 | | ug/Kg |
| 95-47-6 | o-Xylene | ND | 387 | | ug/Kg |
| 135-98-8 | sec-Butylbenzene | ND | 387 | | ug/Kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 387 | | ug/Kg |
| 98-06-6 | tert-Butylbenzene | ND | 387 | | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 387 | | ug/Kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 387 | | ug/Kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 387 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 3870 | 3860 | ug/Kg | 100 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 3870 | 3720 | ug/Kg | 96 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 3870 | 3910 | ug/Kg | 101 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 3870 | 3690 | ug/Kg | 95 | 62 - 125 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170803 | **PD-3 AT 2** | Solid | 01/15/2014 10:00 | 01/17/2014 10:00 |

## EPA 9071B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| 01/17/2014 14:30 | 523768 | EPA 9071B | 1 | 01/20/2014 09:00 | AEL | 523839 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| C-007 | Oil and Grease | ND | 495 | | mg/kg |

RESULTS REPORTED ON A WET WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170804 | **PD-3 AT 10** | Solid | 01/15/2014 10:00 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 01/22/2014 13:27 | LBH | 524047 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 98.3 | | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 98.3 | | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 98.3 | | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 98.3 | | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 98.3 | | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 98.3 | | ug/Kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 98.3 | | ug/Kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 98.3 | | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 98.3 | | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 98.3 | | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 98.3 | | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 98.3 | | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 98.3 | | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 98.3 | | ug/Kg |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **415** | **197** | | **ug/Kg** |
| 78-87-5 | 1,2-Dichloropropane | ND | 98.3 | | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 98.3 | | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 98.3 | | ug/Kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 98.3 | | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 98.3 | | ug/Kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 98.3 | | ug/Kg |
| 78-93-3 | 2-Butanone | ND | 98.3 | | ug/Kg |
| 95-49-8 | 2-Chlorotoluene | ND | 98.3 | | ug/Kg |
| 591-78-6 | 2-Hexanone | ND | 98.3 | | ug/Kg |
| 106-43-4 | 4-Chlorotoluene | ND | 98.3 | | ug/Kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 98.3 | | ug/Kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 98.3 | | ug/Kg |
| 67-64-1 | Acetone | ND | 492 | | ug/Kg |
| 71-43-2 | Benzene | ND | 98.3 | | ug/Kg |
| 108-86-1 | Bromobenzene | ND | 98.3 | | ug/Kg |
| 74-97-5 | Bromochloromethane | ND | 98.3 | | ug/Kg |
| 75-27-4 | Bromodichloromethane | ND | 98.3 | | ug/Kg |
| 75-25-2 | Bromoform | ND | 98.3 | | ug/Kg |
| 74-83-9 | Bromomethane | ND | 98.3 | | ug/Kg |
| 75-15-0 | Carbon disulfide | ND | 98.3 | | ug/Kg |
| 56-23-5 | Carbon tetrachloride | ND | 98.3 | | ug/Kg |
| 108-90-7 | Chlorobenzene | ND | 98.3 | | ug/Kg |
| 75-00-3 | Chloroethane | ND | 98.3 | | ug/Kg |
| 67-66-3 | Chloroform | ND | 98.3 | | ug/Kg |
| 74-87-3 | Chloromethane | ND | 98.3 | | ug/Kg |
| 124-48-1 | Dibromochloromethane | ND | 98.3 | | ug/Kg |
| 74-95-3 | Dibromomethane | ND | 98.3 | | ug/Kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 98.3 | | ug/Kg |
| 100-41-4 | Ethylbenzene | ND | 98.3 | | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | ND | 98.3 | | ug/Kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 98.3 | | ug/Kg |
| 74-88-4 | Methyl iodide | ND | 98.3 | | ug/Kg |
| 75-09-2 | Methylene chloride | ND | 197 | | ug/Kg |
| 91-20-3 | Naphthalene | ND | 98.3 | | ug/Kg |
| 100-42-5 | Styrene | ND | 98.3 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170804 | **PD-3 AT 10** | Solid | 01/15/2014 10:00 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 01/22/2014 13:27 | LBH | 524047 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **1020** | **98.3** | | **ug/Kg** |
| 108-88-3 | Toluene | ND | 98.3 | | ug/Kg |
| **79-01-6** | **Trichloroethene** | **179** | **98.3** | | **ug/Kg** |
| 75-69-4 | Trichlorofluoromethane | ND | 98.3 | | ug/Kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 98.3 | | ug/Kg |
| 75-01-4 | Vinyl chloride | ND | 98.3 | | ug/Kg |
| 1330-20-7 | Xylene (total) | ND | 197 | | ug/Kg |
| **156-59-2** | **cis-1,2-Dichloroethene** | **415** | **98.3** | | **ug/Kg** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 98.3 | | ug/Kg |
| 136777-61-2 | m,p-Xylene | ND | 98.3 | | ug/Kg |
| 104-51-8 | n-Butylbenzene | ND | 98.3 | | ug/Kg |
| 103-65-1 | n-Propylbenzene | ND | 98.3 | | ug/Kg |
| 95-47-6 | o-Xylene | ND | 98.3 | | ug/Kg |
| 135-98-8 | sec-Butylbenzene | ND | 98.3 | | ug/Kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 98.3 | | ug/Kg |
| 98-06-6 | tert-Butylbenzene | ND | 98.3 | | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 98.3 | | ug/Kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 98.3 | | ug/Kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 98.3 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 983 | 982 | ug/Kg | 100 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 983 | 942 | ug/Kg | 96 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 983 | 1010 | ug/Kg | 103 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 983 | 948 | ug/Kg | 96 | 62 - 125 |

## EPA 9071B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| 01/17/2014 14:30 | 523768 | EPA 9071B | 1 | 01/20/2014 09:00 | AEL | 523839 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| C-007 | Oil and Grease | ND | 485 | | mg/kg |

RESULTS REPORTED ON A WET WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170805 | **OT-5 AT 10** | Solid | 01/15/2014 14:00 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 01/22/2014 13:46 | LBH | 524047 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 117 | | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 117 | | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 117 | | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 117 | | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 117 | | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 117 | | ug/Kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 117 | | ug/Kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 117 | | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 117 | | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 117 | | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 117 | | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 117 | | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 117 | | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 117 | | ug/Kg |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 234 | | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | ND | 117 | | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 117 | | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 117 | | ug/Kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 117 | | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 117 | | ug/Kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 117 | | ug/Kg |
| 78-93-3 | 2-Butanone | ND | 117 | | ug/Kg |
| 95-49-8 | 2-Chlorotoluene | ND | 117 | | ug/Kg |
| 591-78-6 | 2-Hexanone | ND | 117 | | ug/Kg |
| 106-43-4 | 4-Chlorotoluene | ND | 117 | | ug/Kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 117 | | ug/Kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 117 | | ug/Kg |
| 67-64-1 | Acetone | ND | 586 | | ug/Kg |
| 71-43-2 | Benzene | ND | 117 | | ug/Kg |
| 108-86-1 | Bromobenzene | ND | 117 | | ug/Kg |
| 74-97-5 | Bromochloromethane | ND | 117 | | ug/Kg |
| 75-27-4 | Bromodichloromethane | ND | 117 | | ug/Kg |
| 75-25-2 | Bromoform | ND | 117 | | ug/Kg |
| 74-83-9 | Bromomethane | ND | 117 | | ug/Kg |
| 75-15-0 | Carbon disulfide | ND | 117 | | ug/Kg |
| 56-23-5 | Carbon tetrachloride | ND | 117 | | ug/Kg |
| 108-90-7 | Chlorobenzene | ND | 117 | | ug/Kg |
| 75-00-3 | Chloroethane | ND | 117 | | ug/Kg |
| 67-66-3 | Chloroform | ND | 117 | | ug/Kg |
| 74-87-3 | Chloromethane | ND | 117 | | ug/Kg |
| 124-48-1 | Dibromochloromethane | ND | 117 | | ug/Kg |
| 74-95-3 | Dibromomethane | ND | 117 | | ug/Kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 117 | | ug/Kg |
| 100-41-4 | Ethylbenzene | ND | 117 | | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | ND | 117 | | ug/Kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 117 | | ug/Kg |
| 74-88-4 | Methyl iodide | ND | 117 | | ug/Kg |
| 75-09-2 | Methylene chloride | ND | 234 | | ug/Kg |
| 91-20-3 | Naphthalene | ND | 117 | | ug/Kg |
| 100-42-5 | Styrene | ND | 117 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170805 | **OT-5 AT 10** | Solid | 01/15/2014 14:00 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 01/22/2014 13:46 | LBH | 524047 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **645** | **117** | | **ug/Kg** |
| 108-88-3 | Toluene | ND | 117 | | ug/Kg |
| 79-01-6 | Trichloroethene | ND | 117 | | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | ND | 117 | | ug/Kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 117 | | ug/Kg |
| 75-01-4 | Vinyl chloride | ND | 117 | | ug/Kg |
| 1330-20-7 | Xylene (total) | ND | 234 | | ug/Kg |
| **156-59-2** | **cis-1,2-Dichloroethene** | **159** | **117** | | **ug/Kg** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 117 | | ug/Kg |
| 136777-61-2 | m,p-Xylene | ND | 117 | | ug/Kg |
| 104-51-8 | n-Butylbenzene | ND | 117 | | ug/Kg |
| 103-65-1 | n-Propylbenzene | ND | 117 | | ug/Kg |
| 95-47-6 | o-Xylene | ND | 117 | | ug/Kg |
| 135-98-8 | sec-Butylbenzene | ND | 117 | | ug/Kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 117 | | ug/Kg |
| 98-06-6 | tert-Butylbenzene | ND | 117 | | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 117 | | ug/Kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 117 | | ug/Kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 117 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 1170 | 1150 | ug/Kg | 98 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 1170 | 1110 | ug/Kg | 95 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 1170 | 1180 | ug/Kg | 101 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 1170 | 1160 | ug/Kg | 99 | 62 - 125 |

## EPA 9071B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| 01/17/2014 14:30 | 523768 | EPA 9071B | 1 | 01/20/2014 09:00 | AEL | 523839 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| C-007 | Oil and Grease | ND | 490 | | mg/kg |

RESULTS REPORTED ON A WET WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170806 | **OT-6 AT 5** | Solid | 01/15/2014 13:10 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 01/22/2014 14:06 | LBH | 524047 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 115 | | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 115 | | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 115 | | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 115 | | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 115 | | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 115 | | ug/Kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 115 | | ug/Kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 115 | | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 115 | | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 115 | | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 115 | | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 115 | | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 115 | | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 115 | | ug/Kg |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **1350** | **230** | | **ug/Kg** |
| 78-87-5 | 1,2-Dichloropropane | ND | 115 | | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 115 | | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 115 | | ug/Kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 115 | | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 115 | | ug/Kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 115 | | ug/Kg |
| 78-93-3 | 2-Butanone | ND | 115 | | ug/Kg |
| 95-49-8 | 2-Chlorotoluene | ND | 115 | | ug/Kg |
| 591-78-6 | 2-Hexanone | ND | 115 | | ug/Kg |
| 106-43-4 | 4-Chlorotoluene | ND | 115 | | ug/Kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 115 | | ug/Kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 115 | | ug/Kg |
| **67-64-1** | **Acetone** | **710** | **576** | | **ug/Kg** |
| 71-43-2 | Benzene | ND | 115 | | ug/Kg |
| 108-86-1 | Bromobenzene | ND | 115 | | ug/Kg |
| 74-97-5 | Bromochloromethane | ND | 115 | | ug/Kg |
| 75-27-4 | Bromodichloromethane | ND | 115 | | ug/Kg |
| 75-25-2 | Bromoform | ND | 115 | | ug/Kg |
| 74-83-9 | Bromomethane | ND | 115 | | ug/Kg |
| 75-15-0 | Carbon disulfide | ND | 115 | | ug/Kg |
| 56-23-5 | Carbon tetrachloride | ND | 115 | | ug/Kg |
| 108-90-7 | Chlorobenzene | ND | 115 | | ug/Kg |
| 75-00-3 | Chloroethane | ND | 115 | | ug/Kg |
| 67-66-3 | Chloroform | ND | 115 | | ug/Kg |
| 74-87-3 | Chloromethane | ND | 115 | | ug/Kg |
| 124-48-1 | Dibromochloromethane | ND | 115 | | ug/Kg |
| 74-95-3 | Dibromomethane | ND | 115 | | ug/Kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 115 | | ug/Kg |
| 100-41-4 | Ethylbenzene | ND | 115 | | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | ND | 115 | | ug/Kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 115 | | ug/Kg |
| 74-88-4 | Methyl iodide | ND | 115 | | ug/Kg |
| 75-09-2 | Methylene chloride | ND | 230 | | ug/Kg |
| 91-20-3 | Naphthalene | ND | 115 | | ug/Kg |
| 100-42-5 | Styrene | ND | 115 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170806 | **OT-6 AT 5** | Solid | 01/15/2014 13:10 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 01/22/2014 14:06 | LBH | 524047 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | ND | 115 | | ug/Kg |
| 108-88-3 | Toluene | ND | 115 | | ug/Kg |
| 79-01-6 | Trichloroethene | ND | 115 | | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | ND | 115 | | ug/Kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 115 | | ug/Kg |
| 75-01-4 | Vinyl chloride | ND | 115 | | ug/Kg |
| 1330-20-7 | Xylene (total) | ND | 230 | | ug/Kg |
| **156-59-2** | **cis-1,2-Dichloroethene** | **1350** | **115** | | **ug/Kg** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 115 | | ug/Kg |
| 136777-61-2 | m,p-Xylene | ND | 115 | | ug/Kg |
| 104-51-8 | n-Butylbenzene | ND | 115 | | ug/Kg |
| 103-65-1 | n-Propylbenzene | ND | 115 | | ug/Kg |
| 95-47-6 | o-Xylene | ND | 115 | | ug/Kg |
| 135-98-8 | sec-Butylbenzene | ND | 115 | | ug/Kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 115 | | ug/Kg |
| 98-06-6 | tert-Butylbenzene | ND | 115 | | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 115 | | ug/Kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 115 | | ug/Kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 115 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 1150 | 1170 | ug/Kg | 102 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 1150 | 1110 | ug/Kg | 96 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 1150 | 1170 | ug/Kg | 102 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 1150 | 1120 | ug/Kg | 97 | 62 - 125 |

## EPA 9071B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| 01/17/2014 14:30 | 523768 | EPA 9071B | 1 | 01/20/2014 09:00 | AEL | 523839 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| C-007 | Oil and Grease | ND | 490 | | mg/kg |

RESULTS REPORTED ON A WET WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170807 | **OT-6 AT 10** | Solid | 01/15/2014 13:10 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/20/2014 16:34 | KRH | 523919 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 2.07 | | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.07 | | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.07 | | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.07 | | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.07 | | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 2.07 | | ug/Kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 2.07 | | ug/Kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 2.07 | | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.07 | | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.07 | | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.07 | | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.07 | | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.07 | | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 2.07 | | ug/Kg |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **15.5** | **4.15** | | **ug/Kg** |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.07 | | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.07 | | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.07 | | ug/Kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 2.07 | | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.07 | | ug/Kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 2.07 | | ug/Kg |
| 78-93-3 | 2-Butanone | ND | 2.07 | | ug/Kg |
| 95-49-8 | 2-Chlorotoluene | ND | 2.07 | | ug/Kg |
| 591-78-6 | 2-Hexanone | ND | 2.07 | | ug/Kg |
| 106-43-4 | 4-Chlorotoluene | ND | 2.07 | | ug/Kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 2.07 | | ug/Kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.07 | | ug/Kg |
| **67-64-1** | **Acetone** | **14.5** | **10.4** | | **ug/Kg** |
| 71-43-2 | Benzene | ND | 2.07 | | ug/Kg |
| 108-86-1 | Bromobenzene | ND | 2.07 | | ug/Kg |
| 74-97-5 | Bromochloromethane | ND | 2.07 | | ug/Kg |
| 75-27-4 | Bromodichloromethane | ND | 2.07 | | ug/Kg |
| 75-25-2 | Bromoform | ND | 2.07 | | ug/Kg |
| 74-83-9 | Bromomethane | ND | 2.07 | | ug/Kg |
| 75-15-0 | Carbon disulfide | ND | 2.07 | | ug/Kg |
| 56-23-5 | Carbon tetrachloride | ND | 2.07 | | ug/Kg |
| 108-90-7 | Chlorobenzene | ND | 2.07 | | ug/Kg |
| 75-00-3 | Chloroethane | ND | 2.07 | | ug/Kg |
| 67-66-3 | Chloroform | ND | 2.07 | | ug/Kg |
| 74-87-3 | Chloromethane | ND | 2.07 | | ug/Kg |
| 124-48-1 | Dibromochloromethane | ND | 2.07 | | ug/Kg |
| 74-95-3 | Dibromomethane | ND | 2.07 | | ug/Kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.07 | | ug/Kg |
| 100-41-4 | Ethylbenzene | ND | 2.07 | | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | ND | 2.07 | | ug/Kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 2.07 | | ug/Kg |
| 74-88-4 | Methyl iodide | ND | 2.07 | | ug/Kg |
| 75-09-2 | Methylene chloride | ND | 4.15 | | ug/Kg |
| 91-20-3 | Naphthalene | ND | 2.07 | | ug/Kg |
| 100-42-5 | Styrene | ND | 2.07 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170807 | **OT-6 AT 10** | Solid | 01/15/2014 13:10 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/20/2014 16:34 | KRH | 523919 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | ND | 2.07 | | ug/Kg |
| 108-88-3 | Toluene | ND | 2.07 | | ug/Kg |
| 79-01-6 | Trichloroethene | ND | 2.07 | | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | ND | 2.07 | | ug/Kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 2.07 | | ug/Kg |
| 75-01-4 | Vinyl chloride | ND | 2.07 | | ug/Kg |
| 1330-20-7 | Xylene (total) | ND | 4.15 | | ug/Kg |
| **156-59-2** | **cis-1,2-Dichloroethene** | **15.5** | **2.07** | | **ug/Kg** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.07 | | ug/Kg |
| 136777-61-2 | m,p-Xylene | ND | 2.07 | | ug/Kg |
| 104-51-8 | n-Butylbenzene | ND | 2.07 | | ug/Kg |
| 103-65-1 | n-Propylbenzene | ND | 2.07 | | ug/Kg |
| 95-47-6 | o-Xylene | ND | 2.07 | | ug/Kg |
| 135-98-8 | sec-Butylbenzene | ND | 2.07 | | ug/Kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 2.07 | | ug/Kg |
| 98-06-6 | tert-Butylbenzene | ND | 2.07 | | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.07 | | ug/Kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.07 | | ug/Kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 2.07 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 20.7 | 22.1 | ug/Kg | 107 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 20.7 | 21.2 | ug/Kg | 102 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 20.7 | 22.4 | ug/Kg | 108 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 20.7 | 22 | ug/Kg | 106 | 62 - 125 |

## EPA 9071B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| 01/17/2014 14:30 | 523768 | EPA 9071B | 1 | 01/20/2014 09:00 | AEL | 523839 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **C-007** | **Oil and Grease** | **485** | **485** | | **mg/kg** |

RESULTS REPORTED ON A WET WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170808 | **OT-7 AT 2** | Solid | 01/15/2014 12:40 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/20/2014 16:56 | AMD | 523919 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 1.88 | | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.88 | | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.88 | | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.88 | | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.88 | | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.88 | | ug/Kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 1.88 | | ug/Kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 1.88 | | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.88 | | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 1.88 | | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.88 | | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.88 | | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.88 | | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.88 | | ug/Kg |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 3.76 | | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.88 | | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 1.88 | | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.88 | | ug/Kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 1.88 | | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.88 | | ug/Kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 1.88 | | ug/Kg |
| 78-93-3 | 2-Butanone | ND | 1.88 | | ug/Kg |
| 95-49-8 | 2-Chlorotoluene | ND | 1.88 | | ug/Kg |
| 591-78-6 | 2-Hexanone | ND | 1.88 | | ug/Kg |
| 106-43-4 | 4-Chlorotoluene | ND | 1.88 | | ug/Kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 1.88 | | ug/Kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 1.88 | | ug/Kg |
| **67-64-1** | **Acetone** | **16.9** | **9.40** | | **ug/Kg** |
| 71-43-2 | Benzene | ND | 1.88 | | ug/Kg |
| 108-86-1 | Bromobenzene | ND | 1.88 | | ug/Kg |
| 74-97-5 | Bromochloromethane | ND | 1.88 | | ug/Kg |
| 75-27-4 | Bromodichloromethane | ND | 1.88 | | ug/Kg |
| 75-25-2 | Bromoform | ND | 1.88 | | ug/Kg |
| 74-83-9 | Bromomethane | ND | 1.88 | | ug/Kg |
| 75-15-0 | Carbon disulfide | ND | 1.88 | | ug/Kg |
| 56-23-5 | Carbon tetrachloride | ND | 1.88 | | ug/Kg |
| 108-90-7 | Chlorobenzene | ND | 1.88 | | ug/Kg |
| 75-00-3 | Chloroethane | ND | 1.88 | | ug/Kg |
| 67-66-3 | Chloroform | ND | 1.88 | | ug/Kg |
| 74-87-3 | Chloromethane | ND | 1.88 | | ug/Kg |
| 124-48-1 | Dibromochloromethane | ND | 1.88 | | ug/Kg |
| 74-95-3 | Dibromomethane | ND | 1.88 | | ug/Kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 1.88 | | ug/Kg |
| 100-41-4 | Ethylbenzene | ND | 1.88 | | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | ND | 1.88 | | ug/Kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 1.88 | | ug/Kg |
| 74-88-4 | Methyl iodide | ND | 1.88 | | ug/Kg |
| 75-09-2 | Methylene chloride | ND | 3.76 | | ug/Kg |
| 91-20-3 | Naphthalene | ND | 1.88 | | ug/Kg |
| 100-42-5 | Styrene | ND | 1.88 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170808 | **OT-7 AT 2** | Solid | 01/15/2014 12:40 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/20/2014 16:56 | AMD | 523919 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | ND | 1.88 | | ug/Kg |
| 108-88-3 | Toluene | ND | 1.88 | | ug/Kg |
| 79-01-6 | Trichloroethene | ND | 1.88 | | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | ND | 1.88 | | ug/Kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 1.88 | | ug/Kg |
| 75-01-4 | Vinyl chloride | ND | 1.88 | | ug/Kg |
| 1330-20-7 | Xylene (total) | ND | 3.76 | | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.88 | | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.88 | | ug/Kg |
| 136777-61-2 | m,p-Xylene | ND | 1.88 | | ug/Kg |
| 104-51-8 | n-Butylbenzene | ND | 1.88 | | ug/Kg |
| 103-65-1 | n-Propylbenzene | ND | 1.88 | | ug/Kg |
| 95-47-6 | o-Xylene | ND | 1.88 | | ug/Kg |
| 135-98-8 | sec-Butylbenzene | ND | 1.88 | | ug/Kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 1.88 | | ug/Kg |
| 98-06-6 | tert-Butylbenzene | ND | 1.88 | | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.88 | | ug/Kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.88 | | ug/Kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 1.88 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 18.8 | 19.2 | ug/Kg | 102 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 18.8 | 19.9 | ug/Kg | 106 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 18.8 | 19.2 | ug/Kg | 102 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 18.8 | 21 | ug/Kg | 112 | 62 - 125 |

## EPA 9071B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| 01/17/2014 14:30 | 523768 | EPA 9071B | 1 | 01/20/2014 09:00 | AEL | 523839 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| C-007 | Oil and Grease | ND | 485 | | mg/kg |

RESULTS REPORTED ON A WET WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170809 | **MS-1 AT 5** | Solid | 01/15/2014 08:50 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/20/2014 17:18 | AMD | 523919 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 2.00 | | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.00 | | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.00 | | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.00 | | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.00 | | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 2.00 | | ug/Kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 2.00 | | ug/Kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 2.00 | | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.00 | | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.00 | | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.00 | | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.00 | | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.00 | | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 2.00 | | ug/Kg |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 4.00 | | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.00 | | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.00 | | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.00 | | ug/Kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 2.00 | | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.00 | | ug/Kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 2.00 | | ug/Kg |
| 78-93-3 | 2-Butanone | ND | 2.00 | | ug/Kg |
| 95-49-8 | 2-Chlorotoluene | ND | 2.00 | | ug/Kg |
| 591-78-6 | 2-Hexanone | ND | 2.00 | | ug/Kg |
| 106-43-4 | 4-Chlorotoluene | ND | 2.00 | | ug/Kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 2.00 | | ug/Kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.00 | | ug/Kg |
| **67-64-1** | **Acetone** | **11.5** | **10.0** | | **ug/Kg** |
| 71-43-2 | Benzene | ND | 2.00 | | ug/Kg |
| 108-86-1 | Bromobenzene | ND | 2.00 | | ug/Kg |
| 74-97-5 | Bromochloromethane | ND | 2.00 | | ug/Kg |
| 75-27-4 | Bromodichloromethane | ND | 2.00 | | ug/Kg |
| 75-25-2 | Bromoform | ND | 2.00 | | ug/Kg |
| 74-83-9 | Bromomethane | ND | 2.00 | | ug/Kg |
| 75-15-0 | Carbon disulfide | ND | 2.00 | | ug/Kg |
| 56-23-5 | Carbon tetrachloride | ND | 2.00 | | ug/Kg |
| 108-90-7 | Chlorobenzene | ND | 2.00 | | ug/Kg |
| 75-00-3 | Chloroethane | ND | 2.00 | | ug/Kg |
| 67-66-3 | Chloroform | ND | 2.00 | | ug/Kg |
| 74-87-3 | Chloromethane | ND | 2.00 | | ug/Kg |
| 124-48-1 | Dibromochloromethane | ND | 2.00 | | ug/Kg |
| 74-95-3 | Dibromomethane | ND | 2.00 | | ug/Kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.00 | | ug/Kg |
| 100-41-4 | Ethylbenzene | ND | 2.00 | | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | ND | 2.00 | | ug/Kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 2.00 | | ug/Kg |
| 74-88-4 | Methyl iodide | ND | 2.00 | | ug/Kg |
| 75-09-2 | Methylene chloride | ND | 4.00 | | ug/Kg |
| 91-20-3 | Naphthalene | ND | 2.00 | | ug/Kg |
| 100-42-5 | Styrene | ND | 2.00 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170809 | **MS-1 AT 5** | Solid | 01/15/2014 08:50 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/20/2014 17:18 | AMD | 523919 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 108-88-3 | Toluene | ND | 2.00 | | ug/Kg |
| 79-01-6 | Trichloroethene | ND | 2.00 | | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | ND | 2.00 | | ug/Kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 2.00 | | ug/Kg |
| 75-01-4 | Vinyl chloride | ND | 2.00 | | ug/Kg |
| 1330-20-7 | Xylene (total) | ND | 4.00 | | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.00 | | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.00 | | ug/Kg |
| 136777-61-2 | m,p-Xylene | ND | 2.00 | | ug/Kg |
| 104-51-8 | n-Butylbenzene | ND | 2.00 | | ug/Kg |
| 103-65-1 | n-Propylbenzene | ND | 2.00 | | ug/Kg |
| 95-47-6 | o-Xylene | ND | 2.00 | | ug/Kg |
| 135-98-8 | sec-Butylbenzene | ND | 2.00 | | ug/Kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 2.00 | | ug/Kg |
| 98-06-6 | tert-Butylbenzene | ND | 2.00 | | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.00 | | ug/Kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.00 | | ug/Kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 2.00 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 20 | 20.5 | ug/Kg | 103 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 20 | 20.6 | ug/Kg | 103 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 20 | 21 | ug/Kg | 105 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 20 | 21.8 | ug/Kg | 109 | 62 - 125 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 01/22/2014 14:26 | LBH | 524047 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | ND | 84.1 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 841 | 844 | ug/Kg | 100 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 841 | 795 | ug/Kg | 95 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 841 | 849 | ug/Kg | 101 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 841 | 835 | ug/Kg | 99 | 62 - 125 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170809 | **MS-1 AT 5** | Solid | 01/15/2014 08:50 | 01/17/2014 10:00 |

## EPA 9071B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| 01/17/2014 14:30 | 523768 | EPA 9071B | 1 | 01/20/2014 09:00 | AEL | 523839 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| C-007 | Oil and Grease | ND | 495 | | mg/kg |

RESULTS REPORTED ON A WET WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170810 | **MS-2 AT 5** | Solid | 01/15/2014 09:00 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/21/2014 13:22 | JCK | 523947 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 1.76 | | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.76 | | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.76 | | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.76 | | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.76 | | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.76 | | ug/Kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 1.76 | | ug/Kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 1.76 | | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.76 | | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 1.76 | | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.76 | | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.76 | | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.76 | | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.76 | | ug/Kg |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 3.51 | | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.76 | | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 1.76 | | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.76 | | ug/Kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 1.76 | | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.76 | | ug/Kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 1.76 | | ug/Kg |
| **78-93-3** | **2-Butanone** | **2.14** | **1.76** | | **ug/Kg** |
| 95-49-8 | 2-Chlorotoluene | ND | 1.76 | | ug/Kg |
| 591-78-6 | 2-Hexanone | ND | 1.76 | | ug/Kg |
| 106-43-4 | 4-Chlorotoluene | ND | 1.76 | | ug/Kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 1.76 | | ug/Kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 1.76 | | ug/Kg |
| **67-64-1** | **Acetone** | **22.0** | **8.78** | | **ug/Kg** |
| 71-43-2 | Benzene | ND | 1.76 | | ug/Kg |
| 108-86-1 | Bromobenzene | ND | 1.76 | | ug/Kg |
| 74-97-5 | Bromochloromethane | ND | 1.76 | | ug/Kg |
| 75-27-4 | Bromodichloromethane | ND | 1.76 | | ug/Kg |
| 75-25-2 | Bromoform | ND | 1.76 | | ug/Kg |
| 74-83-9 | Bromomethane | ND | 1.76 | | ug/Kg |
| 75-15-0 | Carbon disulfide | ND | 1.76 | | ug/Kg |
| 56-23-5 | Carbon tetrachloride | ND | 1.76 | | ug/Kg |
| 108-90-7 | Chlorobenzene | ND | 1.76 | | ug/Kg |
| 75-00-3 | Chloroethane | ND | 1.76 | | ug/Kg |
| 67-66-3 | Chloroform | ND | 1.76 | | ug/Kg |
| 74-87-3 | Chloromethane | ND | 1.76 | | ug/Kg |
| 124-48-1 | Dibromochloromethane | ND | 1.76 | | ug/Kg |
| 74-95-3 | Dibromomethane | ND | 1.76 | | ug/Kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 1.76 | | ug/Kg |
| 100-41-4 | Ethylbenzene | ND | 1.76 | | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | ND | 1.76 | | ug/Kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 1.76 | | ug/Kg |
| 74-88-4 | Methyl iodide | ND | 1.76 | | ug/Kg |
| 75-09-2 | Methylene chloride | ND | 3.51 | | ug/Kg |
| 91-20-3 | Naphthalene | ND | 1.76 | | ug/Kg |
| 100-42-5 | Styrene | ND | 1.76 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170810 | **MS-2 AT 5** | Solid | 01/15/2014 09:00 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/21/2014 13:22 | JCK | 523947 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **7.67** | **1.76** | | **ug/Kg** |
| 108-88-3 | Toluene | ND | 1.76 | | ug/Kg |
| 79-01-6 | Trichloroethene | ND | 1.76 | | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | ND | 1.76 | | ug/Kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 1.76 | | ug/Kg |
| 75-01-4 | Vinyl chloride | ND | 1.76 | | ug/Kg |
| 1330-20-7 | Xylene (total) | ND | 3.51 | | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.76 | | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.76 | | ug/Kg |
| 136777-61-2 | m,p-Xylene | ND | 1.76 | | ug/Kg |
| 104-51-8 | n-Butylbenzene | ND | 1.76 | | ug/Kg |
| 103-65-1 | n-Propylbenzene | ND | 1.76 | | ug/Kg |
| 95-47-6 | o-Xylene | ND | 1.76 | | ug/Kg |
| 135-98-8 | sec-Butylbenzene | ND | 1.76 | | ug/Kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 1.76 | | ug/Kg |
| 98-06-6 | tert-Butylbenzene | ND | 1.76 | | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.76 | | ug/Kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.76 | | ug/Kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 1.76 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 17.6 | 17 | ug/Kg | 97 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 17.6 | 18.6 | ug/Kg | 106 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 17.6 | 20.3 | ug/Kg | 116 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 17.6 | 19 | ug/Kg | 108 | 62 - 125 |

## EPA 9071B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| 01/17/2014 14:30 | 523768 | EPA 9071B | 1 | 01/20/2014 09:00 | AEL | 523839 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| C-007 | Oil and Grease | ND | 490 | | mg/kg |

RESULTS REPORTED ON A WET WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170811 | **MS-3 AT 10** | Solid | 01/15/2014 09:15 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/20/2014 18:03 | AMD | 523919 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 2.05 | | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.05 | | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.05 | | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.05 | | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.05 | | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 2.05 | | ug/Kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 2.05 | | ug/Kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 2.05 | | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.05 | | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.05 | | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.05 | | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.05 | | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.05 | | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 2.05 | | ug/Kg |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 4.10 | | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.05 | | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.05 | | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.05 | | ug/Kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 2.05 | | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.05 | | ug/Kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 2.05 | | ug/Kg |
| 78-93-3 | 2-Butanone | ND | 2.05 | | ug/Kg |
| 95-49-8 | 2-Chlorotoluene | ND | 2.05 | | ug/Kg |
| 591-78-6 | 2-Hexanone | ND | 2.05 | | ug/Kg |
| 106-43-4 | 4-Chlorotoluene | ND | 2.05 | | ug/Kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 2.05 | | ug/Kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.05 | | ug/Kg |
| 67-64-1 | Acetone | ND | 10.2 | | ug/Kg |
| 71-43-2 | Benzene | ND | 2.05 | | ug/Kg |
| 108-86-1 | Bromobenzene | ND | 2.05 | | ug/Kg |
| 74-97-5 | Bromochloromethane | ND | 2.05 | | ug/Kg |
| 75-27-4 | Bromodichloromethane | ND | 2.05 | | ug/Kg |
| 75-25-2 | Bromoform | ND | 2.05 | | ug/Kg |
| 74-83-9 | Bromomethane | ND | 2.05 | | ug/Kg |
| 75-15-0 | Carbon disulfide | ND | 2.05 | | ug/Kg |
| 56-23-5 | Carbon tetrachloride | ND | 2.05 | | ug/Kg |
| 108-90-7 | Chlorobenzene | ND | 2.05 | | ug/Kg |
| 75-00-3 | Chloroethane | ND | 2.05 | | ug/Kg |
| 67-66-3 | Chloroform | ND | 2.05 | | ug/Kg |
| 74-87-3 | Chloromethane | ND | 2.05 | | ug/Kg |
| 124-48-1 | Dibromochloromethane | ND | 2.05 | | ug/Kg |
| 74-95-3 | Dibromomethane | ND | 2.05 | | ug/Kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.05 | | ug/Kg |
| 100-41-4 | Ethylbenzene | ND | 2.05 | | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | ND | 2.05 | | ug/Kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 2.05 | | ug/Kg |
| 74-88-4 | Methyl iodide | ND | 2.05 | | ug/Kg |
| 75-09-2 | Methylene chloride | ND | 4.10 | | ug/Kg |
| 91-20-3 | Naphthalene | ND | 2.05 | | ug/Kg |
| 100-42-5 | Styrene | ND | 2.05 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170811 | **MS-3 AT 10** | Solid | 01/15/2014 09:15 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/20/2014 18:03 | AMD | 523919 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | ND | 2.05 | | ug/Kg |
| 108-88-3 | Toluene | ND | 2.05 | | ug/Kg |
| 79-01-6 | Trichloroethene | ND | 2.05 | | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | ND | 2.05 | | ug/Kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 2.05 | | ug/Kg |
| 75-01-4 | Vinyl chloride | ND | 2.05 | | ug/Kg |
| 1330-20-7 | Xylene (total) | ND | 4.10 | | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.05 | | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.05 | | ug/Kg |
| 136777-61-2 | m,p-Xylene | ND | 2.05 | | ug/Kg |
| 104-51-8 | n-Butylbenzene | ND | 2.05 | | ug/Kg |
| 103-65-1 | n-Propylbenzene | ND | 2.05 | | ug/Kg |
| 95-47-6 | o-Xylene | ND | 2.05 | | ug/Kg |
| 135-98-8 | sec-Butylbenzene | ND | 2.05 | | ug/Kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 2.05 | | ug/Kg |
| 98-06-6 | tert-Butylbenzene | ND | 2.05 | | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.05 | | ug/Kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.05 | | ug/Kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 2.05 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 20.5 | 21.6 | ug/Kg | 105 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 20.5 | 21 | ug/Kg | 102 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 20.5 | 21.5 | ug/Kg | 105 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 20.5 | 22.3 | ug/Kg | 109 | 62 - 125 |

## EPA 9071B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| 01/17/2014 14:30 | 523768 | EPA 9071B | 1 | 01/20/2014 09:00 | AEL | 523839 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| C-007 | Oil and Grease | ND | 485 | | mg/kg |

RESULTS REPORTED ON A WET WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170812 | **CO-1 AT 10** | Solid | 01/15/2014 11:15 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/20/2014 18:25 | AMD | 523919 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 1.87 | | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.87 | | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.87 | | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.87 | | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.87 | | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.87 | | ug/Kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 1.87 | | ug/Kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 1.87 | | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.87 | | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 1.87 | | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.87 | | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.87 | | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.87 | | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.87 | | ug/Kg |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **8.41** | **3.74** | | **ug/Kg** |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.87 | | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 1.87 | | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.87 | | ug/Kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 1.87 | | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.87 | | ug/Kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 1.87 | | ug/Kg |
| 78-93-3 | 2-Butanone | ND | 1.87 | | ug/Kg |
| 95-49-8 | 2-Chlorotoluene | ND | 1.87 | | ug/Kg |
| 591-78-6 | 2-Hexanone | ND | 1.87 | | ug/Kg |
| 106-43-4 | 4-Chlorotoluene | ND | 1.87 | | ug/Kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 1.87 | | ug/Kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 1.87 | | ug/Kg |
| 67-64-1 | Acetone | ND | 9.35 | | ug/Kg |
| 71-43-2 | Benzene | ND | 1.87 | | ug/Kg |
| 108-86-1 | Bromobenzene | ND | 1.87 | | ug/Kg |
| 74-97-5 | Bromochloromethane | ND | 1.87 | | ug/Kg |
| 75-27-4 | Bromodichloromethane | ND | 1.87 | | ug/Kg |
| 75-25-2 | Bromoform | ND | 1.87 | | ug/Kg |
| 74-83-9 | Bromomethane | ND | 1.87 | | ug/Kg |
| 75-15-0 | Carbon disulfide | ND | 1.87 | | ug/Kg |
| 56-23-5 | Carbon tetrachloride | ND | 1.87 | | ug/Kg |
| 108-90-7 | Chlorobenzene | ND | 1.87 | | ug/Kg |
| 75-00-3 | Chloroethane | ND | 1.87 | | ug/Kg |
| 67-66-3 | Chloroform | ND | 1.87 | | ug/Kg |
| 74-87-3 | Chloromethane | ND | 1.87 | | ug/Kg |
| 124-48-1 | Dibromochloromethane | ND | 1.87 | | ug/Kg |
| 74-95-3 | Dibromomethane | ND | 1.87 | | ug/Kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 1.87 | | ug/Kg |
| 100-41-4 | Ethylbenzene | ND | 1.87 | | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | ND | 1.87 | | ug/Kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 1.87 | | ug/Kg |
| 74-88-4 | Methyl iodide | ND | 1.87 | | ug/Kg |
| 75-09-2 | Methylene chloride | ND | 3.74 | | ug/Kg |
| **91-20-3** | **Naphthalene** | **2.24** | **1.87** | | **ug/Kg** |
| 100-42-5 | Styrene | ND | 1.87 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170812 | **CO-1 AT 10** | Solid | 01/15/2014 11:15 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/20/2014 18:25 | AMD | 523919 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | ND | 1.87 | | ug/Kg |
| 108-88-3 | Toluene | ND | 1.87 | | ug/Kg |
| 79-01-6 | Trichloroethene | ND | 1.87 | | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | ND | 1.87 | | ug/Kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 1.87 | | ug/Kg |
| 75-01-4 | Vinyl chloride | ND | 1.87 | | ug/Kg |
| 1330-20-7 | Xylene (total) | ND | 3.74 | | ug/Kg |
| **156-59-2** | **cis-1,2-Dichloroethene** | **8.41** | **1.87** | | **ug/Kg** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.87 | | ug/Kg |
| 136777-61-2 | m,p-Xylene | ND | 1.87 | | ug/Kg |
| 104-51-8 | n-Butylbenzene | ND | 1.87 | | ug/Kg |
| 103-65-1 | n-Propylbenzene | ND | 1.87 | | ug/Kg |
| 95-47-6 | o-Xylene | ND | 1.87 | | ug/Kg |
| 135-98-8 | sec-Butylbenzene | ND | 1.87 | | ug/Kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 1.87 | | ug/Kg |
| 98-06-6 | tert-Butylbenzene | ND | 1.87 | | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.87 | | ug/Kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.87 | | ug/Kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 1.87 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 18.7 | 20 | ug/Kg | 107 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 18.7 | 19.4 | ug/Kg | 104 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 18.7 | 19.2 | ug/Kg | 103 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 18.7 | 20.5 | ug/Kg | 110 | 62 - 125 |

## EPA 8015C

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| 01/21/2014 08:30 | 523898 | EPA 3550C | 1 | 01/21/2014 13:27 | PMM | 524003 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **GCSV-00-4** | **Diesel Range Organics** | **4950** | **4000** | | **ug/Kg** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 1670 | 1310 | ug/Kg | 79 | 63 - 120 |

## EPA 9071B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| 01/17/2014 14:30 | 523768 | EPA 9071B | 1 | 01/20/2014 09:00 | AEL | 523839 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| C-007 | Oil and Grease | ND | 485 | | mg/kg |

RESULTS REPORTED ON A WET WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170813 | **CO-2 AT 5** | Solid | 01/15/2014 11:00 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/20/2014 18:47 | AMD | 523919 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 1.63 | | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.63 | | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.63 | | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.63 | | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.63 | | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.63 | | ug/Kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 1.63 | | ug/Kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 1.63 | | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.63 | | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 1.63 | | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.63 | | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.63 | | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.63 | | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.63 | | ug/Kg |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 3.26 | | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.63 | | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 1.63 | | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.63 | | ug/Kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 1.63 | | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.63 | | ug/Kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 1.63 | | ug/Kg |
| 78-93-3 | 2-Butanone | ND | 1.63 | | ug/Kg |
| 95-49-8 | 2-Chlorotoluene | ND | 1.63 | | ug/Kg |
| 591-78-6 | 2-Hexanone | ND | 1.63 | | ug/Kg |
| 106-43-4 | 4-Chlorotoluene | ND | 1.63 | | ug/Kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 1.63 | | ug/Kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 1.63 | | ug/Kg |
| 67-64-1 | Acetone | ND | 8.16 | | ug/Kg |
| 71-43-2 | Benzene | ND | 1.63 | | ug/Kg |
| 108-86-1 | Bromobenzene | ND | 1.63 | | ug/Kg |
| 74-97-5 | Bromochloromethane | ND | 1.63 | | ug/Kg |
| 75-27-4 | Bromodichloromethane | ND | 1.63 | | ug/Kg |
| 75-25-2 | Bromoform | ND | 1.63 | | ug/Kg |
| 74-83-9 | Bromomethane | ND | 1.63 | | ug/Kg |
| 75-15-0 | Carbon disulfide | ND | 1.63 | | ug/Kg |
| 56-23-5 | Carbon tetrachloride | ND | 1.63 | | ug/Kg |
| 108-90-7 | Chlorobenzene | ND | 1.63 | | ug/Kg |
| 75-00-3 | Chloroethane | ND | 1.63 | | ug/Kg |
| 67-66-3 | Chloroform | ND | 1.63 | | ug/Kg |
| 74-87-3 | Chloromethane | ND | 1.63 | | ug/Kg |
| 124-48-1 | Dibromochloromethane | ND | 1.63 | | ug/Kg |
| 74-95-3 | Dibromomethane | ND | 1.63 | | ug/Kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 1.63 | | ug/Kg |
| 100-41-4 | Ethylbenzene | ND | 1.63 | | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | ND | 1.63 | | ug/Kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 1.63 | | ug/Kg |
| 74-88-4 | Methyl iodide | ND | 1.63 | | ug/Kg |
| 75-09-2 | Methylene chloride | ND | 3.26 | | ug/Kg |
| 91-20-3 | Naphthalene | ND | 1.63 | | ug/Kg |
| 100-42-5 | Styrene | ND | 1.63 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170813 | **CO-2 AT 5** | Solid | 01/15/2014 11:00 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/20/2014 18:47 | AMD | 523919 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | ND | 1.63 | | ug/Kg |
| 108-88-3 | Toluene | ND | 1.63 | | ug/Kg |
| 79-01-6 | Trichloroethene | ND | 1.63 | | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | ND | 1.63 | | ug/Kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 1.63 | | ug/Kg |
| 75-01-4 | Vinyl chloride | ND | 1.63 | | ug/Kg |
| 1330-20-7 | Xylene (total) | ND | 3.26 | | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.63 | | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.63 | | ug/Kg |
| 136777-61-2 | m,p-Xylene | ND | 1.63 | | ug/Kg |
| 104-51-8 | n-Butylbenzene | ND | 1.63 | | ug/Kg |
| 103-65-1 | n-Propylbenzene | ND | 1.63 | | ug/Kg |
| 95-47-6 | o-Xylene | ND | 1.63 | | ug/Kg |
| 135-98-8 | sec-Butylbenzene | ND | 1.63 | | ug/Kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 1.63 | | ug/Kg |
| 98-06-6 | tert-Butylbenzene | ND | 1.63 | | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.63 | | ug/Kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.63 | | ug/Kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 1.63 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 16.3 | 17.8 | ug/Kg | 109 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 16.3 | 17 | ug/Kg | 104 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 16.3 | 17.1 | ug/Kg | 105 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 16.3 | 18.4 | ug/Kg | 113 | 62 - 125 |

## EPA 8015C

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| 01/21/2014 08:30 | 523898 | EPA 3550C | 1 | 01/21/2014 13:46 | PMM | 524003 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **GCSV-00-4** | **Diesel Range Organics** | **12600** | **4000** | | **ug/Kg** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 1670 | 1420 | ug/Kg | 85 | 63 - 120 |

## EPA 9071B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| 01/17/2014 14:30 | 523768 | EPA 9071B | 1 | 01/20/2014 09:00 | AEL | 523839 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| C-007 | Oil and Grease | ND | 495 | | mg/kg |

RESULTS REPORTED ON A WET WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170814 | **AST-1 AT 10** | Solid | 01/14/2014 10:50 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/20/2014 19:09 | AMD | 523919 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 2.47 | | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.47 | | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.47 | | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.47 | | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.47 | | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 2.47 | | ug/Kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 2.47 | | ug/Kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 2.47 | | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.47 | | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.47 | | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.47 | | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.47 | | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.47 | | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 2.47 | | ug/Kg |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 4.93 | | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.47 | | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.47 | | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.47 | | ug/Kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 2.47 | | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.47 | | ug/Kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 2.47 | | ug/Kg |
| 78-93-3 | 2-Butanone | ND | 2.47 | | ug/Kg |
| 95-49-8 | 2-Chlorotoluene | ND | 2.47 | | ug/Kg |
| 591-78-6 | 2-Hexanone | ND | 2.47 | | ug/Kg |
| 106-43-4 | 4-Chlorotoluene | ND | 2.47 | | ug/Kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 2.47 | | ug/Kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.47 | | ug/Kg |
| 67-64-1 | Acetone | ND | 12.3 | | ug/Kg |
| 71-43-2 | Benzene | ND | 2.47 | | ug/Kg |
| 108-86-1 | Bromobenzene | ND | 2.47 | | ug/Kg |
| 74-97-5 | Bromochloromethane | ND | 2.47 | | ug/Kg |
| 75-27-4 | Bromodichloromethane | ND | 2.47 | | ug/Kg |
| 75-25-2 | Bromoform | ND | 2.47 | | ug/Kg |
| 74-83-9 | Bromomethane | ND | 2.47 | | ug/Kg |
| 75-15-0 | Carbon disulfide | ND | 2.47 | | ug/Kg |
| 56-23-5 | Carbon tetrachloride | ND | 2.47 | | ug/Kg |
| 108-90-7 | Chlorobenzene | ND | 2.47 | | ug/Kg |
| 75-00-3 | Chloroethane | ND | 2.47 | | ug/Kg |
| 67-66-3 | Chloroform | ND | 2.47 | | ug/Kg |
| 74-87-3 | Chloromethane | ND | 2.47 | | ug/Kg |
| 124-48-1 | Dibromochloromethane | ND | 2.47 | | ug/Kg |
| 74-95-3 | Dibromomethane | ND | 2.47 | | ug/Kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.47 | | ug/Kg |
| 100-41-4 | Ethylbenzene | ND | 2.47 | | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | ND | 2.47 | | ug/Kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 2.47 | | ug/Kg |
| 74-88-4 | Methyl iodide | ND | 2.47 | | ug/Kg |
| 75-09-2 | Methylene chloride | ND | 4.93 | | ug/Kg |
| 91-20-3 | Naphthalene | ND | 2.47 | | ug/Kg |
| 100-42-5 | Styrene | ND | 2.47 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170814 | **AST-1 AT 10** | Solid | 01/14/2014 10:50 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/20/2014 19:09 | AMD | 523919 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | ND | 2.47 | | ug/Kg |
| 108-88-3 | Toluene | ND | 2.47 | | ug/Kg |
| 79-01-6 | Trichloroethene | ND | 2.47 | | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | ND | 2.47 | | ug/Kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 2.47 | | ug/Kg |
| 75-01-4 | Vinyl chloride | ND | 2.47 | | ug/Kg |
| 1330-20-7 | Xylene (total) | ND | 4.93 | | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.47 | | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.47 | | ug/Kg |
| 136777-61-2 | m,p-Xylene | ND | 2.47 | | ug/Kg |
| 104-51-8 | n-Butylbenzene | ND | 2.47 | | ug/Kg |
| 103-65-1 | n-Propylbenzene | ND | 2.47 | | ug/Kg |
| 95-47-6 | o-Xylene | ND | 2.47 | | ug/Kg |
| 135-98-8 | sec-Butylbenzene | ND | 2.47 | | ug/Kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 2.47 | | ug/Kg |
| 98-06-6 | tert-Butylbenzene | ND | 2.47 | | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.47 | | ug/Kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.47 | | ug/Kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 2.47 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 24.7 | 26.4 | ug/Kg | 107 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 24.7 | 25.4 | ug/Kg | 103 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 24.7 | 25.9 | ug/Kg | 105 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 24.7 | 26.6 | ug/Kg | 108 | 62 - 125 |

RESULTS REPORTED ON A WET WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170815 | **AST-2 AT 10** | Solid | 01/14/2014 11:00 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 150 | 01/22/2014 14:45 | LBH | 524047 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 324 | | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 324 | | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 324 | | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 324 | | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 324 | | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 324 | | ug/Kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 324 | | ug/Kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 324 | | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 324 | | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 324 | | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 324 | | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 324 | | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 324 | | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 324 | | ug/Kg |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 648 | | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | ND | 324 | | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 324 | | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 324 | | ug/Kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 324 | | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 324 | | ug/Kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 324 | | ug/Kg |
| 78-93-3 | 2-Butanone | ND | 324 | | ug/Kg |
| 95-49-8 | 2-Chlorotoluene | ND | 324 | | ug/Kg |
| 591-78-6 | 2-Hexanone | ND | 324 | | ug/Kg |
| 106-43-4 | 4-Chlorotoluene | ND | 324 | | ug/Kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 324 | | ug/Kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 324 | | ug/Kg |
| 67-64-1 | Acetone | ND | 1620 | | ug/Kg |
| 71-43-2 | Benzene | ND | 324 | | ug/Kg |
| 108-86-1 | Bromobenzene | ND | 324 | | ug/Kg |
| 74-97-5 | Bromochloromethane | ND | 324 | | ug/Kg |
| 75-27-4 | Bromodichloromethane | ND | 324 | | ug/Kg |
| 75-25-2 | Bromoform | ND | 324 | | ug/Kg |
| 74-83-9 | Bromomethane | ND | 324 | | ug/Kg |
| 75-15-0 | Carbon disulfide | ND | 324 | | ug/Kg |
| 56-23-5 | Carbon tetrachloride | ND | 324 | | ug/Kg |
| 108-90-7 | Chlorobenzene | ND | 324 | | ug/Kg |
| 75-00-3 | Chloroethane | ND | 324 | | ug/Kg |
| 67-66-3 | Chloroform | ND | 324 | | ug/Kg |
| 74-87-3 | Chloromethane | ND | 324 | | ug/Kg |
| 124-48-1 | Dibromochloromethane | ND | 324 | | ug/Kg |
| 74-95-3 | Dibromomethane | ND | 324 | | ug/Kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 324 | | ug/Kg |
| 100-41-4 | Ethylbenzene | ND | 324 | | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | ND | 324 | | ug/Kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 324 | | ug/Kg |
| 74-88-4 | Methyl iodide | ND | 324 | | ug/Kg |
| 75-09-2 | Methylene chloride | ND | 648 | | ug/Kg |
| 91-20-3 | Naphthalene | ND | 324 | | ug/Kg |
| 100-42-5 | Styrene | ND | 324 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170815 | **AST-2 AT 10** | Solid | 01/14/2014 11:00 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 150 | 01/22/2014 14:45 | LBH | 524047 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **694** | **324** | | **ug/Kg** |
| 108-88-3 | Toluene | ND | 324 | | ug/Kg |
| 79-01-6 | Trichloroethene | ND | 324 | | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | ND | 324 | | ug/Kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 324 | | ug/Kg |
| 75-01-4 | Vinyl chloride | ND | 324 | | ug/Kg |
| 1330-20-7 | Xylene (total) | ND | 648 | | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 324 | | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 324 | | ug/Kg |
| 136777-61-2 | m,p-Xylene | ND | 324 | | ug/Kg |
| 104-51-8 | n-Butylbenzene | ND | 324 | | ug/Kg |
| 103-65-1 | n-Propylbenzene | ND | 324 | | ug/Kg |
| 95-47-6 | o-Xylene | ND | 324 | | ug/Kg |
| 135-98-8 | sec-Butylbenzene | ND | 324 | | ug/Kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 324 | | ug/Kg |
| 98-06-6 | tert-Butylbenzene | ND | 324 | | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 324 | | ug/Kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 324 | | ug/Kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 324 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 3240 | 3310 | ug/Kg | 102 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 3240 | 3060 | ug/Kg | 94 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 3240 | 3300 | ug/Kg | 102 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 3240 | 3230 | ug/Kg | 100 | 62 - 125 |

RESULTS REPORTED ON A WET WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170816 | **AST-3 AT 10** | Solid | 01/14/2014 11:15 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/20/2014 19:31 | AMD | 523919 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 1.95 | | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.95 | | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.95 | | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.95 | | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.95 | | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.95 | | ug/Kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 1.95 | | ug/Kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 1.95 | | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.95 | | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 1.95 | | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.95 | | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.95 | | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.95 | | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.95 | | ug/Kg |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 3.91 | | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.95 | | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 1.95 | | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.95 | | ug/Kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 1.95 | | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.95 | | ug/Kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 1.95 | | ug/Kg |
| 78-93-3 | 2-Butanone | ND | 1.95 | | ug/Kg |
| 95-49-8 | 2-Chlorotoluene | ND | 1.95 | | ug/Kg |
| 591-78-6 | 2-Hexanone | ND | 1.95 | | ug/Kg |
| 106-43-4 | 4-Chlorotoluene | ND | 1.95 | | ug/Kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 1.95 | | ug/Kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 1.95 | | ug/Kg |
| 67-64-1 | Acetone | ND | 9.77 | | ug/Kg |
| 71-43-2 | Benzene | ND | 1.95 | | ug/Kg |
| 108-86-1 | Bromobenzene | ND | 1.95 | | ug/Kg |
| 74-97-5 | Bromochloromethane | ND | 1.95 | | ug/Kg |
| 75-27-4 | Bromodichloromethane | ND | 1.95 | | ug/Kg |
| 75-25-2 | Bromoform | ND | 1.95 | | ug/Kg |
| 74-83-9 | Bromomethane | ND | 1.95 | | ug/Kg |
| 75-15-0 | Carbon disulfide | ND | 1.95 | | ug/Kg |
| 56-23-5 | Carbon tetrachloride | ND | 1.95 | | ug/Kg |
| 108-90-7 | Chlorobenzene | ND | 1.95 | | ug/Kg |
| 75-00-3 | Chloroethane | ND | 1.95 | | ug/Kg |
| 67-66-3 | Chloroform | ND | 1.95 | | ug/Kg |
| 74-87-3 | Chloromethane | ND | 1.95 | | ug/Kg |
| 124-48-1 | Dibromochloromethane | ND | 1.95 | | ug/Kg |
| 74-95-3 | Dibromomethane | ND | 1.95 | | ug/Kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 1.95 | | ug/Kg |
| 100-41-4 | Ethylbenzene | ND | 1.95 | | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | ND | 1.95 | | ug/Kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 1.95 | | ug/Kg |
| 74-88-4 | Methyl iodide | ND | 1.95 | | ug/Kg |
| 75-09-2 | Methylene chloride | ND | 3.91 | | ug/Kg |
| 91-20-3 | Naphthalene | ND | 1.95 | | ug/Kg |
| 100-42-5 | Styrene | ND | 1.95 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170816 | **AST-3 AT 10** | Solid | 01/14/2014 11:15 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/20/2014 19:31 | AMD | 523919 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **177** | **1.95** | | **ug/Kg** |
| 108-88-3 | Toluene | ND | 1.95 | | ug/Kg |
| 79-01-6 | Trichloroethene | ND | 1.95 | | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | ND | 1.95 | | ug/Kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 1.95 | | ug/Kg |
| 75-01-4 | Vinyl chloride | ND | 1.95 | | ug/Kg |
| 1330-20-7 | Xylene (total) | ND | 3.91 | | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.95 | | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.95 | | ug/Kg |
| 136777-61-2 | m,p-Xylene | ND | 1.95 | | ug/Kg |
| 104-51-8 | n-Butylbenzene | ND | 1.95 | | ug/Kg |
| 103-65-1 | n-Propylbenzene | ND | 1.95 | | ug/Kg |
| 95-47-6 | o-Xylene | ND | 1.95 | | ug/Kg |
| 135-98-8 | sec-Butylbenzene | ND | 1.95 | | ug/Kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 1.95 | | ug/Kg |
| 98-06-6 | tert-Butylbenzene | ND | 1.95 | | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.95 | | ug/Kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.95 | | ug/Kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 1.95 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 19.5 | 20.3 | ug/Kg | 104 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 19.5 | 20 | ug/Kg | 102 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 19.5 | 21 | ug/Kg | 107 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 19.5 | 20.3 | ug/Kg | 104 | 62 - 125 |

RESULTS REPORTED ON A WET WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170817 | **OT-1 AT 10** | Solid | 01/14/2014 11:33 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/20/2014 19:54 | AMD | 523919 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 2.53 | | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.53 | | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.53 | | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.53 | | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.53 | | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 2.53 | | ug/Kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 2.53 | | ug/Kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 2.53 | | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.53 | | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.53 | | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.53 | | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.53 | | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.53 | | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 2.53 | | ug/Kg |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 5.07 | | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.53 | | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.53 | | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.53 | | ug/Kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 2.53 | | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.53 | | ug/Kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 2.53 | | ug/Kg |
| 78-93-3 | 2-Butanone | ND | 2.53 | | ug/Kg |
| 95-49-8 | 2-Chlorotoluene | ND | 2.53 | | ug/Kg |
| 591-78-6 | 2-Hexanone | ND | 2.53 | | ug/Kg |
| 106-43-4 | 4-Chlorotoluene | ND | 2.53 | | ug/Kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 2.53 | | ug/Kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.53 | | ug/Kg |
| 67-64-1 | Acetone | ND | 12.7 | | ug/Kg |
| 71-43-2 | Benzene | ND | 2.53 | | ug/Kg |
| 108-86-1 | Bromobenzene | ND | 2.53 | | ug/Kg |
| 74-97-5 | Bromochloromethane | ND | 2.53 | | ug/Kg |
| 75-27-4 | Bromodichloromethane | ND | 2.53 | | ug/Kg |
| 75-25-2 | Bromoform | ND | 2.53 | | ug/Kg |
| 74-83-9 | Bromomethane | ND | 2.53 | | ug/Kg |
| 75-15-0 | Carbon disulfide | ND | 2.53 | | ug/Kg |
| 56-23-5 | Carbon tetrachloride | ND | 2.53 | | ug/Kg |
| 108-90-7 | Chlorobenzene | ND | 2.53 | | ug/Kg |
| 75-00-3 | Chloroethane | ND | 2.53 | | ug/Kg |
| 67-66-3 | Chloroform | ND | 2.53 | | ug/Kg |
| 74-87-3 | Chloromethane | ND | 2.53 | | ug/Kg |
| 124-48-1 | Dibromochloromethane | ND | 2.53 | | ug/Kg |
| 74-95-3 | Dibromomethane | ND | 2.53 | | ug/Kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.53 | | ug/Kg |
| 100-41-4 | Ethylbenzene | ND | 2.53 | | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | ND | 2.53 | | ug/Kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 2.53 | | ug/Kg |
| 74-88-4 | Methyl iodide | ND | 2.53 | | ug/Kg |
| 75-09-2 | Methylene chloride | ND | 5.07 | | ug/Kg |
| 91-20-3 | Naphthalene | ND | 2.53 | | ug/Kg |
| 100-42-5 | Styrene | ND | 2.53 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170817 | **OT-1 AT 10** | Solid | 01/14/2014 11:33 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/20/2014 19:54 | AMD | 523919 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | ND | 2.53 | | ug/Kg |
| 108-88-3 | Toluene | ND | 2.53 | | ug/Kg |
| 79-01-6 | Trichloroethene | ND | 2.53 | | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | ND | 2.53 | | ug/Kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 2.53 | | ug/Kg |
| 75-01-4 | Vinyl chloride | ND | 2.53 | | ug/Kg |
| 1330-20-7 | Xylene (total) | ND | 5.07 | | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.53 | | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.53 | | ug/Kg |
| 136777-61-2 | m,p-Xylene | ND | 2.53 | | ug/Kg |
| 104-51-8 | n-Butylbenzene | ND | 2.53 | | ug/Kg |
| 103-65-1 | n-Propylbenzene | ND | 2.53 | | ug/Kg |
| 95-47-6 | o-Xylene | ND | 2.53 | | ug/Kg |
| 135-98-8 | sec-Butylbenzene | ND | 2.53 | | ug/Kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 2.53 | | ug/Kg |
| 98-06-6 | tert-Butylbenzene | ND | 2.53 | | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.53 | | ug/Kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.53 | | ug/Kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 2.53 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 25.3 | 26.9 | ug/Kg | 106 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 25.3 | 26.6 | ug/Kg | 105 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 25.3 | 26.7 | ug/Kg | 105 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 25.3 | 27.7 | ug/Kg | 109 | 62 - 125 |

## EPA 9071B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| 01/17/2014 14:30 | 523768 | EPA 9071B | 1 | 01/20/2014 09:00 | AEL | 523839 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **C-007** | **Oil and Grease** | **1300** | **485** | | **mg/kg** |

RESULTS REPORTED ON A WET WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170818 | **OT-2 AT 2** | Solid | 01/14/2014 12:10 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 01/22/2014 15:25 | LBH | 524047 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 99.0 | | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 99.0 | | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 99.0 | | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 99.0 | | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 99.0 | | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 99.0 | | ug/Kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 99.0 | | ug/Kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 99.0 | | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 99.0 | | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 99.0 | | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 99.0 | | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 99.0 | | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 99.0 | | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 99.0 | | ug/Kg |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 198 | | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | ND | 99.0 | | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 99.0 | | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 99.0 | | ug/Kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 99.0 | | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 99.0 | | ug/Kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 99.0 | | ug/Kg |
| 78-93-3 | 2-Butanone | ND | 99.0 | | ug/Kg |
| 95-49-8 | 2-Chlorotoluene | ND | 99.0 | | ug/Kg |
| 591-78-6 | 2-Hexanone | ND | 99.0 | | ug/Kg |
| 106-43-4 | 4-Chlorotoluene | ND | 99.0 | | ug/Kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 99.0 | | ug/Kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 99.0 | | ug/Kg |
| 67-64-1 | Acetone | ND | 495 | | ug/Kg |
| 71-43-2 | Benzene | ND | 99.0 | | ug/Kg |
| 108-86-1 | Bromobenzene | ND | 99.0 | | ug/Kg |
| 74-97-5 | Bromochloromethane | ND | 99.0 | | ug/Kg |
| 75-27-4 | Bromodichloromethane | ND | 99.0 | | ug/Kg |
| 75-25-2 | Bromoform | ND | 99.0 | | ug/Kg |
| 74-83-9 | Bromomethane | ND | 99.0 | | ug/Kg |
| 75-15-0 | Carbon disulfide | ND | 99.0 | | ug/Kg |
| 56-23-5 | Carbon tetrachloride | ND | 99.0 | | ug/Kg |
| 108-90-7 | Chlorobenzene | ND | 99.0 | | ug/Kg |
| 75-00-3 | Chloroethane | ND | 99.0 | | ug/Kg |
| 67-66-3 | Chloroform | ND | 99.0 | | ug/Kg |
| 74-87-3 | Chloromethane | ND | 99.0 | | ug/Kg |
| 124-48-1 | Dibromochloromethane | ND | 99.0 | | ug/Kg |
| 74-95-3 | Dibromomethane | ND | 99.0 | | ug/Kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 99.0 | | ug/Kg |
| 100-41-4 | Ethylbenzene | ND | 99.0 | | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | ND | 99.0 | | ug/Kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 99.0 | | ug/Kg |
| 74-88-4 | Methyl iodide | ND | 99.0 | | ug/Kg |
| 75-09-2 | Methylene chloride | ND | 198 | | ug/Kg |
| 91-20-3 | Naphthalene | ND | 99.0 | | ug/Kg |
| 100-42-5 | Styrene | ND | 99.0 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170818 | **OT-2 AT 2** | Solid | 01/14/2014 12:10 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 01/22/2014 15:25 | LBH | 524047 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **185** | **99.0** | | **ug/Kg** |
| 108-88-3 | Toluene | ND | 99.0 | | ug/Kg |
| 79-01-6 | Trichloroethene | ND | 99.0 | | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | ND | 99.0 | | ug/Kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 99.0 | | ug/Kg |
| 75-01-4 | Vinyl chloride | ND | 99.0 | | ug/Kg |
| 1330-20-7 | Xylene (total) | ND | 198 | | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 99.0 | | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 99.0 | | ug/Kg |
| 136777-61-2 | m,p-Xylene | ND | 99.0 | | ug/Kg |
| 104-51-8 | n-Butylbenzene | ND | 99.0 | | ug/Kg |
| 103-65-1 | n-Propylbenzene | ND | 99.0 | | ug/Kg |
| 95-47-6 | o-Xylene | ND | 99.0 | | ug/Kg |
| 135-98-8 | sec-Butylbenzene | ND | 99.0 | | ug/Kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 99.0 | | ug/Kg |
| 98-06-6 | tert-Butylbenzene | ND | 99.0 | | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 99.0 | | ug/Kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 99.0 | | ug/Kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 99.0 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 990 | 995 | ug/Kg | 100 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 990 | 935 | ug/Kg | 94 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 990 | 1000 | ug/Kg | 101 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 990 | 968 | ug/Kg | 98 | 62 - 125 |

## EPA 9071B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| 01/17/2014 14:30 | 523768 | EPA 9071B | 1 | 01/20/2014 09:00 | AEL | 523839 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| C-007 | Oil and Grease | ND | 495 | | mg/kg |

RESULTS REPORTED ON A WET WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170819 | **OT-3 AT 10** | Solid | 01/14/2014 14:00 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/20/2014 20:16 | AMD | 523919 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 2.04 | | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.04 | | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.04 | | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.04 | | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.04 | | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 2.04 | | ug/Kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 2.04 | | ug/Kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 2.04 | | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.04 | | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.04 | | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.04 | | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.04 | | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.04 | | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 2.04 | | ug/Kg |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **26.0** | **4.08** | | **ug/Kg** |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.04 | | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.04 | | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.04 | | ug/Kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 2.04 | | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.04 | | ug/Kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 2.04 | | ug/Kg |
| **78-93-3** | **2-Butanone** | **2.90** | **2.04** | | **ug/Kg** |
| 95-49-8 | 2-Chlorotoluene | ND | 2.04 | | ug/Kg |
| 591-78-6 | 2-Hexanone | ND | 2.04 | | ug/Kg |
| 106-43-4 | 4-Chlorotoluene | ND | 2.04 | | ug/Kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 2.04 | | ug/Kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.04 | | ug/Kg |
| 67-64-1 | Acetone | ND | 10.2 | | ug/Kg |
| 71-43-2 | Benzene | ND | 2.04 | | ug/Kg |
| 108-86-1 | Bromobenzene | ND | 2.04 | | ug/Kg |
| 74-97-5 | Bromochloromethane | ND | 2.04 | | ug/Kg |
| 75-27-4 | Bromodichloromethane | ND | 2.04 | | ug/Kg |
| 75-25-2 | Bromoform | ND | 2.04 | | ug/Kg |
| 74-83-9 | Bromomethane | ND | 2.04 | | ug/Kg |
| 75-15-0 | Carbon disulfide | ND | 2.04 | | ug/Kg |
| 56-23-5 | Carbon tetrachloride | ND | 2.04 | | ug/Kg |
| 108-90-7 | Chlorobenzene | ND | 2.04 | | ug/Kg |
| 75-00-3 | Chloroethane | ND | 2.04 | | ug/Kg |
| 67-66-3 | Chloroform | ND | 2.04 | | ug/Kg |
| 74-87-3 | Chloromethane | ND | 2.04 | | ug/Kg |
| 124-48-1 | Dibromochloromethane | ND | 2.04 | | ug/Kg |
| 74-95-3 | Dibromomethane | ND | 2.04 | | ug/Kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.04 | | ug/Kg |
| 100-41-4 | Ethylbenzene | ND | 2.04 | | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | ND | 2.04 | | ug/Kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 2.04 | | ug/Kg |
| 74-88-4 | Methyl iodide | ND | 2.04 | | ug/Kg |
| 75-09-2 | Methylene chloride | ND | 4.08 | | ug/Kg |
| 91-20-3 | Naphthalene | ND | 2.04 | | ug/Kg |
| 100-42-5 | Styrene | ND | 2.04 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170819 | **OT-3 AT 10** | Solid | 01/14/2014 14:00 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/20/2014 20:16 | AMD | 523919 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **76.8** | **2.04** | | **ug/Kg** |
| 108-88-3 | Toluene | ND | 2.04 | | ug/Kg |
| **79-01-6** | **Trichloroethene** | **10.8** | **2.04** | | **ug/Kg** |
| 75-69-4 | Trichlorofluoromethane | ND | 2.04 | | ug/Kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 2.04 | | ug/Kg |
| 75-01-4 | Vinyl chloride | ND | 2.04 | | ug/Kg |
| 1330-20-7 | Xylene (total) | ND | 4.08 | | ug/Kg |
| **156-59-2** | **cis-1,2-Dichloroethene** | **26.0** | **2.04** | | **ug/Kg** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.04 | | ug/Kg |
| 136777-61-2 | m,p-Xylene | ND | 2.04 | | ug/Kg |
| 104-51-8 | n-Butylbenzene | ND | 2.04 | | ug/Kg |
| 103-65-1 | n-Propylbenzene | ND | 2.04 | | ug/Kg |
| 95-47-6 | o-Xylene | ND | 2.04 | | ug/Kg |
| 135-98-8 | sec-Butylbenzene | ND | 2.04 | | ug/Kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 2.04 | | ug/Kg |
| 98-06-6 | tert-Butylbenzene | ND | 2.04 | | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.04 | | ug/Kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.04 | | ug/Kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 2.04 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 20.4 | 22.1 | ug/Kg | 108 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 20.4 | 20.8 | ug/Kg | 102 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 20.4 | 21.2 | ug/Kg | 104 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 20.4 | 22.2 | ug/Kg | 109 | 62 - 125 |

## EPA 9071B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| 01/17/2014 14:30 | 523768 | EPA 9071B | 1 | 01/20/2014 09:00 | AEL | 523839 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| C-007 | Oil and Grease | ND | 490 | | mg/kg |

RESULTS REPORTED ON A WET WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170820 | **OT-3 AT 2** | Solid | 01/14/2014 14:00 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 250 | 01/22/2014 15:45 | LBH | 524047 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **9900** | **397** | | **ug/Kg** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 3970 | 4130 | ug/Kg | 104 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 3970 | 3820 | ug/Kg | 96 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 3970 | 4140 | ug/Kg | 104 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 3970 | 3800 | ug/Kg | 96 | 62 - 125 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 01/22/2014 16:05 | LBH | 524047 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 79.5 | | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 79.5 | | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 79.5 | | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 79.5 | | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 79.5 | | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 79.5 | | ug/Kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 79.5 | | ug/Kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 79.5 | | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 79.5 | | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 79.5 | | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 79.5 | | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 79.5 | | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 79.5 | | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 79.5 | | ug/Kg |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 159 | | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | ND | 79.5 | | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 79.5 | | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 79.5 | | ug/Kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 79.5 | | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 79.5 | | ug/Kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 79.5 | | ug/Kg |
| 78-93-3 | 2-Butanone | ND | 79.5 | | ug/Kg |
| 95-49-8 | 2-Chlorotoluene | ND | 79.5 | | ug/Kg |
| 591-78-6 | 2-Hexanone | ND | 79.5 | | ug/Kg |
| 106-43-4 | 4-Chlorotoluene | ND | 79.5 | | ug/Kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 79.5 | | ug/Kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 79.5 | | ug/Kg |
| 67-64-1 | Acetone | ND | 397 | | ug/Kg |
| 71-43-2 | Benzene | ND | 79.5 | | ug/Kg |
| 108-86-1 | Bromobenzene | ND | 79.5 | | ug/Kg |
| 74-97-5 | Bromochloromethane | ND | 79.5 | | ug/Kg |
| 75-27-4 | Bromodichloromethane | ND | 79.5 | | ug/Kg |
| 75-25-2 | Bromoform | ND | 79.5 | | ug/Kg |
| 74-83-9 | Bromomethane | ND | 79.5 | | ug/Kg |
| 75-15-0 | Carbon disulfide | ND | 79.5 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170820 | **OT-3 AT 2** | Solid | 01/14/2014 14:00 | 01/17/2014 10:00 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 01/22/2014 16:05 | LBH | 524047 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | ND | 79.5 | | ug/Kg |
| 108-90-7 | Chlorobenzene | ND | 79.5 | | ug/Kg |
| 75-00-3 | Chloroethane | ND | 79.5 | | ug/Kg |
| 67-66-3 | Chloroform | ND | 79.5 | | ug/Kg |
| 74-87-3 | Chloromethane | ND | 79.5 | | ug/Kg |
| 124-48-1 | Dibromochloromethane | ND | 79.5 | | ug/Kg |
| 74-95-3 | Dibromomethane | ND | 79.5 | | ug/Kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 79.5 | | ug/Kg |
| 100-41-4 | Ethylbenzene | ND | 79.5 | | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | ND | 79.5 | | ug/Kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 79.5 | | ug/Kg |
| 74-88-4 | Methyl iodide | ND | 79.5 | | ug/Kg |
| 75-09-2 | Methylene chloride | ND | 159 | | ug/Kg |
| 91-20-3 | Naphthalene | ND | 79.5 | | ug/Kg |
| 100-42-5 | Styrene | ND | 79.5 | | ug/Kg |
| 108-88-3 | Toluene | ND | 79.5 | | ug/Kg |
| **79-01-6** | **Trichloroethene** | **186** | **79.5** | | **ug/Kg** |
| 75-69-4 | Trichlorofluoromethane | ND | 79.5 | | ug/Kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 79.5 | | ug/Kg |
| 75-01-4 | Vinyl chloride | ND | 79.5 | | ug/Kg |
| 1330-20-7 | Xylene (total) | ND | 159 | | ug/Kg |
| **156-59-2** | **cis-1,2-Dichloroethene** | **139** | **79.5** | | **ug/Kg** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 79.5 | | ug/Kg |
| 136777-61-2 | m,p-Xylene | ND | 79.5 | | ug/Kg |
| 104-51-8 | n-Butylbenzene | ND | 79.5 | | ug/Kg |
| 103-65-1 | n-Propylbenzene | ND | 79.5 | | ug/Kg |
| 95-47-6 | o-Xylene | ND | 79.5 | | ug/Kg |
| 135-98-8 | sec-Butylbenzene | ND | 79.5 | | ug/Kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 79.5 | | ug/Kg |
| 98-06-6 | tert-Butylbenzene | ND | 79.5 | | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 79.5 | | ug/Kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 79.5 | | ug/Kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 79.5 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 795 | 833 | ug/Kg | 105 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 795 | 753 | ug/Kg | 95 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 795 | 810 | ug/Kg | 102 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 795 | 763 | ug/Kg | 96 | 62 - 125 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170820 | **OT-3 AT 2** | Solid | 01/14/2014 14:00 | 01/17/2014 10:00 |

## EPA 9071B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| 01/17/2014 14:30 | 523768 | EPA 9071B | 1 | 01/20/2014 09:00 | AEL | 523839 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| C-007 | Oil and Grease | ND | 485 | | mg/kg |

RESULTS REPORTED ON A WET WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170821 | **OT-4 AT 10** | Solid | 01/14/2014 15:00 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/20/2014 20:38 | AMD | 523919 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 2.70 | | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.70 | | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.70 | | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.70 | | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.70 | | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 2.70 | | ug/Kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 2.70 | | ug/Kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 2.70 | | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.70 | | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.70 | | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.70 | | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.70 | | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.70 | | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 2.70 | | ug/Kg |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **36.1** | **5.41** | | **ug/Kg** |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.70 | | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.70 | | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.70 | | ug/Kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 2.70 | | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.70 | | ug/Kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 2.70 | | ug/Kg |
| 78-93-3 | 2-Butanone | ND | 2.70 | | ug/Kg |
| 95-49-8 | 2-Chlorotoluene | ND | 2.70 | | ug/Kg |
| 591-78-6 | 2-Hexanone | ND | 2.70 | | ug/Kg |
| 106-43-4 | 4-Chlorotoluene | ND | 2.70 | | ug/Kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 2.70 | | ug/Kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.70 | | ug/Kg |
| 67-64-1 | Acetone | ND | 13.5 | | ug/Kg |
| 71-43-2 | Benzene | ND | 2.70 | | ug/Kg |
| 108-86-1 | Bromobenzene | ND | 2.70 | | ug/Kg |
| 74-97-5 | Bromochloromethane | ND | 2.70 | | ug/Kg |
| 75-27-4 | Bromodichloromethane | ND | 2.70 | | ug/Kg |
| 75-25-2 | Bromoform | ND | 2.70 | | ug/Kg |
| 74-83-9 | Bromomethane | ND | 2.70 | | ug/Kg |
| 75-15-0 | Carbon disulfide | ND | 2.70 | | ug/Kg |
| 56-23-5 | Carbon tetrachloride | ND | 2.70 | | ug/Kg |
| 108-90-7 | Chlorobenzene | ND | 2.70 | | ug/Kg |
| 75-00-3 | Chloroethane | ND | 2.70 | | ug/Kg |
| 67-66-3 | Chloroform | ND | 2.70 | | ug/Kg |
| 74-87-3 | Chloromethane | ND | 2.70 | | ug/Kg |
| 124-48-1 | Dibromochloromethane | ND | 2.70 | | ug/Kg |
| 74-95-3 | Dibromomethane | ND | 2.70 | | ug/Kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.70 | | ug/Kg |
| 100-41-4 | Ethylbenzene | ND | 2.70 | | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | ND | 2.70 | | ug/Kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 2.70 | | ug/Kg |
| 74-88-4 | Methyl iodide | ND | 2.70 | | ug/Kg |
| 75-09-2 | Methylene chloride | ND | 5.41 | | ug/Kg |
| 91-20-3 | Naphthalene | ND | 2.70 | | ug/Kg |
| 100-42-5 | Styrene | ND | 2.70 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170821 | **OT-4 AT 10** | Solid | 01/14/2014 15:00 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/20/2014 20:38 | AMD | 523919 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **58.2** | **2.70** | | **ug/Kg** |
| 108-88-3 | Toluene | ND | 2.70 | | ug/Kg |
| **79-01-6** | **Trichloroethene** | **7.00** | **2.70** | | **ug/Kg** |
| 75-69-4 | Trichlorofluoromethane | ND | 2.70 | | ug/Kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 2.70 | | ug/Kg |
| 75-01-4 | Vinyl chloride | ND | 2.70 | | ug/Kg |
| 1330-20-7 | Xylene (total) | ND | 5.41 | | ug/Kg |
| **156-59-2** | **cis-1,2-Dichloroethene** | **36.1** | **2.70** | | **ug/Kg** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.70 | | ug/Kg |
| 136777-61-2 | m,p-Xylene | ND | 2.70 | | ug/Kg |
| 104-51-8 | n-Butylbenzene | ND | 2.70 | | ug/Kg |
| 103-65-1 | n-Propylbenzene | ND | 2.70 | | ug/Kg |
| 95-47-6 | o-Xylene | ND | 2.70 | | ug/Kg |
| 135-98-8 | sec-Butylbenzene | ND | 2.70 | | ug/Kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 2.70 | | ug/Kg |
| 98-06-6 | tert-Butylbenzene | ND | 2.70 | | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.70 | | ug/Kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.70 | | ug/Kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 2.70 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 27 | 28 | ug/Kg | 104 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 27 | 28.1 | ug/Kg | 104 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 27 | 28.1 | ug/Kg | 104 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 27 | 28.7 | ug/Kg | 106 | 62 - 125 |

## EPA 9071B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| 01/17/2014 14:30 | 523768 | EPA 9071B | 1 | 01/20/2014 09:00 | AEL | 523839 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| C-007 | Oil and Grease | ND | 495 | | mg/kg |

RESULTS REPORTED ON A WET WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170822 | **CD-1 AT 5** | Solid | 01/14/2014 14:40 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 250 | 01/22/2014 16:44 | LBH | 524047 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **95-63-6** | **1,2,4-Trimethylbenzene** | **2630** | **336** | | **ug/Kg** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 3360 | 3450 | ug/Kg | 103 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 3360 | 3190 | ug/Kg | 95 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 3360 | 3410 | ug/Kg | 101 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 3360 | 3350 | ug/Kg | 100 | 62 - 125 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 01/22/2014 17:04 | LBH | 524047 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 67.2 | | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 67.2 | | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 67.2 | | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 67.2 | | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 67.2 | | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 67.2 | | ug/Kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 67.2 | | ug/Kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 67.2 | | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 67.2 | | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 67.2 | | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 67.2 | | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 67.2 | | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 67.2 | | ug/Kg |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 134 | | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | ND | 67.2 | | ug/Kg |
| **108-67-8** | **1,3,5-Trimethylbenzene** | **923** | **67.2** | | **ug/Kg** |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 67.2 | | ug/Kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 67.2 | | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 67.2 | | ug/Kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 67.2 | | ug/Kg |
| 78-93-3 | 2-Butanone | ND | 67.2 | | ug/Kg |
| 95-49-8 | 2-Chlorotoluene | ND | 67.2 | | ug/Kg |
| 591-78-6 | 2-Hexanone | ND | 67.2 | | ug/Kg |
| 106-43-4 | 4-Chlorotoluene | ND | 67.2 | | ug/Kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 67.2 | | ug/Kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 67.2 | | ug/Kg |
| 67-64-1 | Acetone | ND | 336 | | ug/Kg |
| 71-43-2 | Benzene | ND | 67.2 | | ug/Kg |
| 108-86-1 | Bromobenzene | ND | 67.2 | | ug/Kg |
| 74-97-5 | Bromochloromethane | ND | 67.2 | | ug/Kg |
| 75-27-4 | Bromodichloromethane | ND | 67.2 | | ug/Kg |
| 75-25-2 | Bromoform | ND | 67.2 | | ug/Kg |
| 74-83-9 | Bromomethane | ND | 67.2 | | ug/Kg |
| 75-15-0 | Carbon disulfide | ND | 67.2 | | ug/Kg |
| 56-23-5 | Carbon tetrachloride | ND | 67.2 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170822 | **CD-1 AT 5** | Solid | 01/14/2014 14:40 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 01/22/2014 17:04 | LBH | 524047 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 108-90-7 | Chlorobenzene | ND | 67.2 | | ug/Kg |
| 75-00-3 | Chloroethane | ND | 67.2 | | ug/Kg |
| 67-66-3 | Chloroform | ND | 67.2 | | ug/Kg |
| 74-87-3 | Chloromethane | ND | 67.2 | | ug/Kg |
| 124-48-1 | Dibromochloromethane | ND | 67.2 | | ug/Kg |
| 74-95-3 | Dibromomethane | ND | 67.2 | | ug/Kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 67.2 | | ug/Kg |
| **100-41-4** | **Ethylbenzene** | **206** | **67.2** | | **ug/Kg** |
| 87-68-3 | Hexachlorobutadiene | ND | 67.2 | | ug/Kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 67.2 | | ug/Kg |
| 74-88-4 | Methyl iodide | ND | 67.2 | | ug/Kg |
| 75-09-2 | Methylene chloride | ND | 134 | | ug/Kg |
| **91-20-3** | **Naphthalene** | **878** | **67.2** | | **ug/Kg** |
| 100-42-5 | Styrene | ND | 67.2 | | ug/Kg |
| 127-18-4 | Tetrachloroethene | ND | 67.2 | | ug/Kg |
| 108-88-3 | Toluene | ND | 67.2 | | ug/Kg |
| 79-01-6 | Trichloroethene | ND | 67.2 | | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | ND | 67.2 | | ug/Kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 67.2 | | ug/Kg |
| 75-01-4 | Vinyl chloride | ND | 67.2 | | ug/Kg |
| **1330-20-7** | **Xylene (total)** | **948** | **134** | | **ug/Kg** |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 67.2 | | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 67.2 | | ug/Kg |
| **136777-61-2** | **m,p-Xylene** | **547** | **67.2** | | **ug/Kg** |
| **104-51-8** | **n-Butylbenzene** | **165** | **67.2** | | **ug/Kg** |
| **103-65-1** | **n-Propylbenzene** | **240** | **67.2** | | **ug/Kg** |
| **95-47-6** | **o-Xylene** | **402** | **67.2** | | **ug/Kg** |
| 135-98-8 | sec-Butylbenzene | ND | 67.2 | | ug/Kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 67.2 | | ug/Kg |
| 98-06-6 | tert-Butylbenzene | ND | 67.2 | | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 67.2 | | ug/Kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 67.2 | | ug/Kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 67.2 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 672 | 698 | ug/Kg | 104 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 672 | 621 | ug/Kg | 92 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 672 | 683 | ug/Kg | 102 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 672 | 655 | ug/Kg | 97 | 62 - 125 |

## EPA 8015C

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| 01/18/2014 03:10 | 523788 | EPA 3550C | 10 | 01/20/2014 12:08 | PMM | 523911 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **GCSV-00-4** | **Diesel Range Organics** | **494000** | **40000** | | **ug/Kg** |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170822 | **CD-1 AT 5** | Solid | 01/14/2014 14:40 | 01/17/2014 10:00 |

## EPA 8015C

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| 01/18/2014 03:10 | 523788 | EPA 3550C | 10 | 01/20/2014 12:08 | PMM | 523911 |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 1670 | Diluted Out | ug/Kg | **0*** | 63 - 120 |

## EPA 9071B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| 01/17/2014 14:30 | 523768 | EPA 9071B | 1 | 01/20/2014 09:00 | AEL | 523839 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| C-007 | Oil and Grease | ND | 500 | | mg/kg |

RESULTS REPORTED ON A WET WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170823 | **CD-1 AT 10** | Solid | 01/14/2014 14:40 | 01/17/2014 10:00 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/21/2014 18:09 | JCK | 523947 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 2.13 | | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.13 | | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.13 | | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.13 | | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.13 | | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 2.13 | | ug/Kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 2.13 | | ug/Kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 2.13 | | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.13 | | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.13 | | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.13 | | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.13 | | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.13 | | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 2.13 | | ug/Kg |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 4.26 | | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.13 | | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.13 | | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.13 | | ug/Kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 2.13 | | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.13 | | ug/Kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 2.13 | | ug/Kg |
| 78-93-3 | 2-Butanone | ND | 2.13 | | ug/Kg |
| 95-49-8 | 2-Chlorotoluene | ND | 2.13 | | ug/Kg |
| 591-78-6 | 2-Hexanone | ND | 2.13 | | ug/Kg |
| 106-43-4 | 4-Chlorotoluene | ND | 2.13 | | ug/Kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 2.13 | | ug/Kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.13 | | ug/Kg |
| 67-64-1 | Acetone | ND | 10.7 | | ug/Kg |
| 71-43-2 | Benzene | ND | 2.13 | | ug/Kg |
| 108-86-1 | Bromobenzene | ND | 2.13 | | ug/Kg |
| 74-97-5 | Bromochloromethane | ND | 2.13 | | ug/Kg |
| 75-27-4 | Bromodichloromethane | ND | 2.13 | | ug/Kg |
| 75-25-2 | Bromoform | ND | 2.13 | | ug/Kg |
| 74-83-9 | Bromomethane | ND | 2.13 | | ug/Kg |
| 75-15-0 | Carbon disulfide | ND | 2.13 | | ug/Kg |
| 56-23-5 | Carbon tetrachloride | ND | 2.13 | | ug/Kg |
| 108-90-7 | Chlorobenzene | ND | 2.13 | | ug/Kg |
| 75-00-3 | Chloroethane | ND | 2.13 | | ug/Kg |
| 67-66-3 | Chloroform | ND | 2.13 | | ug/Kg |
| 74-87-3 | Chloromethane | ND | 2.13 | | ug/Kg |
| 124-48-1 | Dibromochloromethane | ND | 2.13 | | ug/Kg |
| 74-95-3 | Dibromomethane | ND | 2.13 | | ug/Kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.13 | | ug/Kg |
| 100-41-4 | Ethylbenzene | ND | 2.13 | | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | ND | 2.13 | | ug/Kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 2.13 | | ug/Kg |
| 74-88-4 | Methyl iodide | ND | 2.13 | | ug/Kg |
| 75-09-2 | Methylene chloride | ND | 4.26 | | ug/Kg |
| 91-20-3 | Naphthalene | ND | 2.13 | | ug/Kg |
| 100-42-5 | Styrene | ND | 2.13 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170823 | **CD-1 AT 10** | Solid | 01/14/2014 14:40 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/21/2014 18:09 | JCK | 523947 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **10.3** | **2.13** | | **ug/Kg** |
| 108-88-3 | Toluene | ND | 2.13 | | ug/Kg |
| 79-01-6 | Trichloroethene | ND | 2.13 | | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | ND | 2.13 | | ug/Kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 2.13 | | ug/Kg |
| 75-01-4 | Vinyl chloride | ND | 2.13 | | ug/Kg |
| 1330-20-7 | Xylene (total) | ND | 4.26 | | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.13 | | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.13 | | ug/Kg |
| 136777-61-2 | m,p-Xylene | ND | 2.13 | | ug/Kg |
| 104-51-8 | n-Butylbenzene | ND | 2.13 | | ug/Kg |
| 103-65-1 | n-Propylbenzene | ND | 2.13 | | ug/Kg |
| 95-47-6 | o-Xylene | ND | 2.13 | | ug/Kg |
| 135-98-8 | sec-Butylbenzene | ND | 2.13 | | ug/Kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 2.13 | | ug/Kg |
| 98-06-6 | tert-Butylbenzene | ND | 2.13 | | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.13 | | ug/Kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.13 | | ug/Kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 2.13 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 21.3 | 23.1 | ug/Kg | 108 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 21.3 | 21.5 | ug/Kg | 101 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 21.3 | 22.9 | ug/Kg | 107 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 21.3 | 21.7 | ug/Kg | 102 | 62 - 125 |

## EPA 8015C

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| 01/18/2014 03:10 | 523788 | EPA 3550C | 1 | 01/20/2014 10:52 | PMM | 523911 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| GCSV-00-4 | Diesel Range Organics | ND | 4000 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 1670 | 1070 | ug/Kg | 64 | 63 - 120 |

## EPA 9071B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| 01/17/2014 14:30 | 523768 | EPA 9071B | 1 | 01/20/2014 09:00 | AEL | 523839 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| C-007 | Oil and Grease | ND | 490 | | mg/kg |

RESULTS REPORTED ON A WET WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170824 | **CD-2 AT 5** | Solid | 01/14/2014 14:20 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/21/2014 18:32 | JCK | 523947 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 2.23 | | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.23 | | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.23 | | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.23 | | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.23 | | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 2.23 | | ug/Kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 2.23 | | ug/Kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 2.23 | | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.23 | | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.23 | | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.23 | | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.23 | | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.23 | | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 2.23 | | ug/Kg |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 4.46 | | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.23 | | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.23 | | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.23 | | ug/Kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 2.23 | | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.23 | | ug/Kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 2.23 | | ug/Kg |
| 78-93-3 | 2-Butanone | ND | 2.23 | | ug/Kg |
| 95-49-8 | 2-Chlorotoluene | ND | 2.23 | | ug/Kg |
| 591-78-6 | 2-Hexanone | ND | 2.23 | | ug/Kg |
| 106-43-4 | 4-Chlorotoluene | ND | 2.23 | | ug/Kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 2.23 | | ug/Kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.23 | | ug/Kg |
| 67-64-1 | Acetone | ND | 11.2 | | ug/Kg |
| 71-43-2 | Benzene | ND | 2.23 | | ug/Kg |
| 108-86-1 | Bromobenzene | ND | 2.23 | | ug/Kg |
| 74-97-5 | Bromochloromethane | ND | 2.23 | | ug/Kg |
| 75-27-4 | Bromodichloromethane | ND | 2.23 | | ug/Kg |
| 75-25-2 | Bromoform | ND | 2.23 | | ug/Kg |
| 74-83-9 | Bromomethane | ND | 2.23 | | ug/Kg |
| 75-15-0 | Carbon disulfide | ND | 2.23 | | ug/Kg |
| 56-23-5 | Carbon tetrachloride | ND | 2.23 | | ug/Kg |
| 108-90-7 | Chlorobenzene | ND | 2.23 | | ug/Kg |
| 75-00-3 | Chloroethane | ND | 2.23 | | ug/Kg |
| 67-66-3 | Chloroform | ND | 2.23 | | ug/Kg |
| 74-87-3 | Chloromethane | ND | 2.23 | | ug/Kg |
| 124-48-1 | Dibromochloromethane | ND | 2.23 | | ug/Kg |
| 74-95-3 | Dibromomethane | ND | 2.23 | | ug/Kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.23 | | ug/Kg |
| 100-41-4 | Ethylbenzene | ND | 2.23 | | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | ND | 2.23 | | ug/Kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 2.23 | | ug/Kg |
| 74-88-4 | Methyl iodide | ND | 2.23 | | ug/Kg |
| 75-09-2 | Methylene chloride | ND | 4.46 | | ug/Kg |
| 91-20-3 | Naphthalene | ND | 2.23 | | ug/Kg |
| 100-42-5 | Styrene | ND | 2.23 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170824 | **CD-2 AT 5** | Solid | 01/14/2014 14:20 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/21/2014 18:32 | JCK | 523947 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **21.6** | **2.23** | | **ug/Kg** |
| 108-88-3 | Toluene | ND | 2.23 | | ug/Kg |
| 79-01-6 | Trichloroethene | ND | 2.23 | | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | ND | 2.23 | | ug/Kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 2.23 | | ug/Kg |
| 75-01-4 | Vinyl chloride | ND | 2.23 | | ug/Kg |
| 1330-20-7 | Xylene (total) | ND | 4.46 | | ug/Kg |
| **156-59-2** | **cis-1,2-Dichloroethene** | **2.99** | **2.23** | | **ug/Kg** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.23 | | ug/Kg |
| 136777-61-2 | m,p-Xylene | ND | 2.23 | | ug/Kg |
| 104-51-8 | n-Butylbenzene | ND | 2.23 | | ug/Kg |
| 103-65-1 | n-Propylbenzene | ND | 2.23 | | ug/Kg |
| 95-47-6 | o-Xylene | ND | 2.23 | | ug/Kg |
| 135-98-8 | sec-Butylbenzene | ND | 2.23 | | ug/Kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 2.23 | | ug/Kg |
| 98-06-6 | tert-Butylbenzene | ND | 2.23 | | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.23 | | ug/Kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.23 | | ug/Kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 2.23 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 22.3 | 23.8 | ug/Kg | 107 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 22.3 | 22.7 | ug/Kg | 102 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 22.3 | 24 | ug/Kg | 108 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 22.3 | 23.2 | ug/Kg | 104 | 62 - 125 |

## EPA 8015C

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| 01/21/2014 08:30 | 523898 | EPA 3550C | 1 | 01/21/2014 14:05 | PMM | 524003 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| GCSV-00-4 | Diesel Range Organics | ND | 4000 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 1670 | 1170 | ug/Kg | 70 | 63 - 120 |

## EPA 9071B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| 01/17/2014 14:30 | 523769 | EPA 9071B | 1 | 01/21/2014 09:30 | AEL | 523844 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| C-007 | Oil and Grease | ND | 500 | | mg/kg |

RESULTS REPORTED ON A WET WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170825 | **OT-0-2 AT 10** | Solid | 01/14/2014 12:10 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/21/2014 18:54 | JCK | 523947 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 2.47 | | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.47 | | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.47 | | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.47 | | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.47 | | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 2.47 | | ug/Kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 2.47 | | ug/Kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 2.47 | | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.47 | | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.47 | | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.47 | | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.47 | | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.47 | | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 2.47 | | ug/Kg |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 4.94 | | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.47 | | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.47 | | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.47 | | ug/Kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 2.47 | | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.47 | | ug/Kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 2.47 | | ug/Kg |
| 78-93-3 | 2-Butanone | ND | 2.47 | | ug/Kg |
| 95-49-8 | 2-Chlorotoluene | ND | 2.47 | | ug/Kg |
| 591-78-6 | 2-Hexanone | ND | 2.47 | | ug/Kg |
| 106-43-4 | 4-Chlorotoluene | ND | 2.47 | | ug/Kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 2.47 | | ug/Kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.47 | | ug/Kg |
| 67-64-1 | Acetone | ND | 12.3 | | ug/Kg |
| 71-43-2 | Benzene | ND | 2.47 | | ug/Kg |
| 108-86-1 | Bromobenzene | ND | 2.47 | | ug/Kg |
| 74-97-5 | Bromochloromethane | ND | 2.47 | | ug/Kg |
| 75-27-4 | Bromodichloromethane | ND | 2.47 | | ug/Kg |
| 75-25-2 | Bromoform | ND | 2.47 | | ug/Kg |
| 74-83-9 | Bromomethane | ND | 2.47 | | ug/Kg |
| 75-15-0 | Carbon disulfide | ND | 2.47 | | ug/Kg |
| 56-23-5 | Carbon tetrachloride | ND | 2.47 | | ug/Kg |
| 108-90-7 | Chlorobenzene | ND | 2.47 | | ug/Kg |
| 75-00-3 | Chloroethane | ND | 2.47 | | ug/Kg |
| 67-66-3 | Chloroform | ND | 2.47 | | ug/Kg |
| 74-87-3 | Chloromethane | ND | 2.47 | | ug/Kg |
| 124-48-1 | Dibromochloromethane | ND | 2.47 | | ug/Kg |
| 74-95-3 | Dibromomethane | ND | 2.47 | | ug/Kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.47 | | ug/Kg |
| 100-41-4 | Ethylbenzene | ND | 2.47 | | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | ND | 2.47 | | ug/Kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 2.47 | | ug/Kg |
| 74-88-4 | Methyl iodide | ND | 2.47 | | ug/Kg |
| 75-09-2 | Methylene chloride | ND | 4.94 | | ug/Kg |
| 91-20-3 | Naphthalene | ND | 2.47 | | ug/Kg |
| 100-42-5 | Styrene | ND | 2.47 | | ug/Kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170825 | **OT-0-2 AT 10** | Solid | 01/14/2014 12:10 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/21/2014 18:54 | JCK | 523947 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | ND | 2.47 | | ug/Kg |
| 108-88-3 | Toluene | ND | 2.47 | | ug/Kg |
| 79-01-6 | Trichloroethene | ND | 2.47 | | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | ND | 2.47 | | ug/Kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 2.47 | | ug/Kg |
| 75-01-4 | Vinyl chloride | ND | 2.47 | | ug/Kg |
| 1330-20-7 | Xylene (total) | ND | 4.94 | | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.47 | | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.47 | | ug/Kg |
| 136777-61-2 | m,p-Xylene | ND | 2.47 | | ug/Kg |
| 104-51-8 | n-Butylbenzene | ND | 2.47 | | ug/Kg |
| 103-65-1 | n-Propylbenzene | ND | 2.47 | | ug/Kg |
| 95-47-6 | o-Xylene | ND | 2.47 | | ug/Kg |
| 135-98-8 | sec-Butylbenzene | ND | 2.47 | | ug/Kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 2.47 | | ug/Kg |
| 98-06-6 | tert-Butylbenzene | ND | 2.47 | | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.47 | | ug/Kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.47 | | ug/Kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 2.47 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 24.7 | 26.9 | ug/Kg | 109 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 24.7 | 24.9 | ug/Kg | 101 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 24.7 | 26.2 | ug/Kg | 106 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 24.7 | 25.1 | ug/Kg | 102 | 62 - 125 |

## EPA 9071B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| 01/17/2014 14:30 | 523769 | EPA 9071B | 1 | 01/21/2014 09:30 | AEL | 523844 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| C-007 | Oil and Grease | ND | 500 | | mg/kg |

RESULTS REPORTED ON A WET WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170826 | **UST-1 AT 5** | Solid | 01/15/2014 15:00 | 01/17/2014 10:00 |

## EPA 8015C

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 01/22/2014 12:27 | BMR | 524066 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 8006-61-9 | Gasoline Range Organics | ND | 2500 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 106-39-8 | Bromochlorobenzene | 751 | 561 | ug/Kg | 75 | 47 - 164 |

RESULTS REPORTED ON A WET WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170827 | **UST-2 AT 2** | Solid | 01/15/2014 15:05 | 01/17/2014 10:00 |

## EPA 8015C

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 01/22/2014 13:29 | BMR | 524066 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 8006-61-9 | Gasoline Range Organics | ND | 2020 | | ug/Kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 106-39-8 | Bromochlorobenzene | 605 | 448 | ug/Kg | 74 | 47 - 164 |

RESULTS REPORTED ON A WET WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170828 | **TRIP BLANK** | Water | 01/14/2014 00:00 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/18/2014 19:59 | CLH | 523813 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.00 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.00 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.00 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.00 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.00 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.00 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.00 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.00 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.00 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.00 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.00 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.00 | | ug/L |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 10.0 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.00 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.00 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.00 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.00 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.00 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.00 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 5.00 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 5.00 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 5.00 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 5.00 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 5.00 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | | ug/L |
| 67-64-1 | Acetone | ND | 5.00 | | ug/L |
| 71-43-2 | Benzene | ND | 5.00 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 5.00 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 5.00 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 5.00 | | ug/L |
| 75-25-2 | Bromoform | ND | 5.00 | | ug/L |
| 74-83-9 | Bromomethane | ND | 5.00 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 5.00 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 5.00 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 5.00 | | ug/L |
| 75-00-3 | Chloroethane | ND | 5.00 | | ug/L |
| 67-66-3 | Chloroform | ND | 5.00 | | ug/L |
| 74-87-3 | Chloromethane | ND | 5.00 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 5.00 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 5.00 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.00 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 5.00 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 5.00 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 5.00 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 5.00 | | ug/L |
| 91-20-3 | Naphthalene | ND | 5.00 | | ug/L |
| 100-42-5 | Styrene | ND | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21401170828 | **TRIP BLANK** | Water | 01/14/2014 00:00 | 01/17/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 01/18/2014 19:59 | CLH | 523813 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | ND | 5.00 | | ug/L |
| 108-88-3 | Toluene | ND | 5.00 | | ug/L |
| 79-01-6 | Trichloroethene | ND | 5.00 | | ug/L |
| 75-69-4 | Trichlorofluoromethane | ND | 5.00 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.00 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 5.00 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 15.0 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 10.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 5.00 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | | ug/L |
| 95-47-6 | o-Xylene | ND | 5.00 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 5.00 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 5.00 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 5.00 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.00 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 50 | 52.5 | ug/L | 105 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 50 | 50.2 | ug/L | 100 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 50 | 52.2 | ug/L | 104 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50 | 48 | ug/L | 96 | 71 - 127 |

# GC/MS Volatiles Quality Control Summary

| | | | | |
|---|---|---|---|---|
| **Analytical Batch** 523813 | **Client ID** | MB523813 | LCS523813 | LCSD523813 |
| **Prep Batch** N/A | **GCAL ID** | 1274572 | 1274573 | 1274574 |
| | **Sample Type** | Method Blank | LCS | LCSD |
| | **Analytical Date** | 01/18/2014 14:18 | 01/18/2014 12:32 | 01/18/2014 12:53 |
| | **Matrix** | Water | Water | Water |

| **EPA 8260B** | | **Units** | ug/L | **Spike** | **Result** | | **Control** | **Result** | | | **RPD** |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Result** | **RDL** | **Added** | | **% R** | **Limits % R** | | **% R** | **RPD** | **Limit** |
| 67-64-1 | Acetone | ND | 5.00 | 50.0 | 55.3 | 111 | 44 - 156 | 57.8 | 116 | 4 | 30 |
| 74-97-5 | Bromochloromethane | ND | 5.00 | 50.0 | 50.6 | 101 | 76 - 130 | 53.2 | 106 | 5 | 30 |
| 75-27-4 | Bromodichloromethane | ND | 5.00 | 50.0 | 50.1 | 100 | 74 - 125 | 52.0 | 104 | 4 | 30 |
| 75-25-2 | Bromoform | ND | 5.00 | 50.0 | 48.1 | 96 | 64 - 122 | 50.1 | 100 | 4 | 30 |
| 74-83-9 | Bromomethane | ND | 5.00 | 50.0 | 42.6 | 85 | 47 - 138 | 48.7 | 97 | 13 | 30 |
| 75-15-0 | Carbon disulfide | ND | 5.00 | 50.0 | 52.4 | 105 | 69 - 136 | 51.4 | 103 | 2 | 30 |
| 56-23-5 | Carbon tetrachloride | ND | 5.00 | 50.0 | 50.9 | 102 | 76 - 128 | 49.7 | 99 | 2 | 30 |
| 75-00-3 | Chloroethane | ND | 5.00 | 50.0 | 50.8 | 102 | 62 - 141 | 54.1 | 108 | 6 | 30 |
| 136777-61-2 | m,p-Xylene | ND | 10.0 | 100 | 99.7 | 100 | 74 - 126 | 99.6 | 100 | 0 | 30 |
| 67-66-3 | Chloroform | ND | 5.00 | 50.0 | 49.8 | 100 | 75 - 122 | 50.1 | 100 | 1 | 30 |
| 74-87-3 | Chloromethane | ND | 5.00 | 50.0 | 55.1 | 110 | 59 - 132 | 55.1 | 110 | 0 | 30 |
| 124-48-1 | Dibromochloromethane | ND | 5.00 | 50.0 | 50.5 | 101 | 71 - 123 | 52.6 | 105 | 4 | 30 |
| 74-95-3 | Dibromomethane | ND | 5.00 | 50.0 | 52.1 | 104 | 72 - 129 | 54.7 | 109 | 5 | 30 |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.00 | 50.0 | 59.7 | 119 | 58 - 140 | 58.5 | 117 | 2 | 30 |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.00 | 50.0 | 49.9 | 100 | 74 - 127 | 50.9 | 102 | 2 | 30 |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.00 | 50.0 | 48.8 | 98 | 71 - 129 | 51.2 | 102 | 5 | 30 |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.00 | 50.0 | 51.4 | 103 | 73 - 130 | 51.8 | 104 | 1 | 30 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | 50.0 | 52.8 | 106 | 69 - 132 | 52.8 | 106 | 0 | 30 |
| 75-09-2 | Methylene chloride | ND | 5.00 | 50.0 | 46.3 | 93 | 68 - 132 | 47.8 | 96 | 3 | 30 |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.00 | 50.0 | 52.5 | 105 | 72 - 128 | 52.9 | 106 | 1 | 30 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | 50.0 | 48.6 | 97 | 71 - 132 | 48.9 | 98 | 1 | 30 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | 50.0 | 46.0 | 92 | 71 - 131 | 48.0 | 96 | 4 | 30 |
| 100-41-4 | Ethylbenzene | ND | 5.00 | 50.0 | 52.7 | 105 | 74 - 126 | 52.9 | 106 | 0 | 30 |
| 591-78-6 | 2-Hexanone | ND | 5.00 | 50.0 | 50.9 | 102 | 50 - 135 | 54.3 | 109 | 6 | 30 |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | 50.0 | 50.7 | 101 | 71 - 125 | 50.6 | 101 | 0 | 30 |
| 78-93-3 | 2-Butanone | ND | 5.00 | 50.0 | 57.0 | 114 | 58 - 137 | 62.6 | 125 | 9 | 30 |
| 74-88-4 | Methyl iodide | ND | 5.00 | 50.0 | 44.0 | 88 | 57 - 141 | 48.6 | 97 | 10 | 30 |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | 50.0 | 53.3 | 107 | 57 - 132 | 55.9 | 112 | 5 | 30 |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | 50.0 | 52.1 | 104 | 75 - 129 | 51.9 | 104 | 0 | 30 |
| 100-42-5 | Styrene | ND | 5.00 | 50.0 | 49.1 | 98 | 71 - 127 | 50.0 | 100 | 2 | 30 |
| 127-18-4 | Tetrachloroethene | ND | 5.00 | 50.0 | 53.1 | 106 | 68 - 128 | 52.1 | 104 | 2 | 30 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | 50.0 | 50.7 | 101 | 75 - 124 | 52.6 | 105 | 4 | 30 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | 50.0 | 50.9 | 102 | 70 - 122 | 53.3 | 107 | 5 | 30 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 523813 | **Client ID** | MB523813 | | | LCS523813 | | | LCSD523813 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1274572 | | | 1274573 | | | 1274574 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 01/18/2014 14:18 | | | 01/18/2014 12:32 | | | 01/18/2014 12:53 | | |
| | | **Matrix** | Water | | | Water | | | Water | | |
| **EPA 8260B** | | **Units** | **Result** | ug/L **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 120-82-1 | 1,2,4-Trichlorobenzene | | ND | 5.00 | 50.0 | 45.0 | 90 | 61 - 135 | 47.5 | 95 | 5 | 30 |
| 71-55-6 | 1,1,1-Trichloroethane | | ND | 5.00 | 50.0 | 51.0 | 102 | 76 - 126 | 50.6 | 101 | 1 | 30 |
| 79-00-5 | 1,1,2-Trichloroethane | | ND | 5.00 | 50.0 | 50.6 | 101 | 72 - 121 | 53.5 | 107 | 6 | 30 |
| 75-69-4 | Trichlorofluoromethane | | ND | 5.00 | 50.0 | 50.8 | 102 | 72 - 136 | 50.0 | 100 | 2 | 30 |
| 96-18-4 | 1,2,3-Trichloropropane | | ND | 5.00 | 50.0 | 49.6 | 99 | 70 - 120 | 52.2 | 104 | 5 | 30 |
| 95-63-6 | 1,2,4-Trimethylbenzene | | ND | 5.00 | 50.0 | 51.6 | 103 | 74 - 125 | 52.3 | 105 | 1 | 30 |
| 108-67-8 | 1,3,5-Trimethylbenzene | | ND | 5.00 | 50.0 | 52.7 | 105 | 71 - 132 | 52.4 | 105 | 1 | 30 |
| 75-01-4 | Vinyl chloride | | ND | 5.00 | 50.0 | 51.6 | 103 | 68 - 132 | 52.0 | 104 | 1 | 30 |
| 95-47-6 | o-Xylene | | ND | 5.00 | 50.0 | 49.9 | 100 | 73 - 130 | 50.8 | 102 | 2 | 30 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | ND | 5.00 | 50.0 | 47.1 | 94 | 57 - 121 | 50.4 | 101 | 7 | 30 |
| 106-93-4 | 1,2-Dibromoethane | | ND | 5.00 | 50.0 | 51.3 | 103 | 70 - 124 | 54.1 | 108 | 5 | 30 |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | | ND | 5.00 | 50.0 | 52.1 | 104 | 71 - 125 | 54.4 | 109 | 4 | 30 |
| 540-59-0 | 1,2-Dichloroethene(Total) | | ND | 10.0 | 100 | 104 | 104 | 74 - 128 | 105 | 105 | 1 | 30 |
| 99-87-6 | 4-Isopropyltoluene | | ND | 5.00 | 50.0 | 50.3 | 101 | 71 - 129 | 49.5 | 99 | 2 | 30 |
| 1330-20-7 | Xylene (total) | | ND | 15.0 | 150 | 150 | 100 | 74 - 127 | 150 | 100 | 0 | 30 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | | ND | 5.00 | 50.0 | 48.0 | 96 | 56 - 132 | 51.2 | 102 | 6 | 30 |
| 594-20-7 | 2,2-Dichloropropane | | ND | 5.00 | 50.0 | 52.8 | 106 | 77 - 124 | 52.1 | 104 | 1 | 30 |
| 76-13-1 | Trichlorotrifluoroethane | | ND | 5.00 | 50.0 | 54.3 | 109 | 72 - 136 | 52.7 | 105 | 3 | 30 |
| 563-58-6 | 1,1-Dichloropropene | | ND | 5.00 | 50.0 | 52.7 | 105 | 72 - 131 | 52.9 | 106 | 0 | 30 |
| 142-28-9 | 1,3-Dichloropropane | | ND | 5.00 | 50.0 | 51.7 | 103 | 74 - 122 | 53.9 | 108 | 4 | 30 |
| 108-86-1 | Bromobenzene | | ND | 5.00 | 50.0 | 48.8 | 98 | 71 - 120 | 50.4 | 101 | 3 | 30 |
| 95-49-8 | 2-Chlorotoluene | | ND | 5.00 | 50.0 | 50.8 | 102 | 72 - 127 | 51.4 | 103 | 1 | 30 |
| 106-43-4 | 4-Chlorotoluene | | ND | 5.00 | 50.0 | 51.6 | 103 | 75 - 126 | 52.0 | 104 | 1 | 30 |
| 98-06-6 | tert-Butylbenzene | | ND | 5.00 | 50.0 | 52.5 | 105 | 72 - 126 | 52.8 | 106 | 1 | 30 |
| 135-98-8 | sec-Butylbenzene | | ND | 5.00 | 50.0 | 54.0 | 108 | 70 - 136 | 53.4 | 107 | 1 | 30 |
| 541-73-1 | 1,3-Dichlorobenzene | | ND | 5.00 | 50.0 | 51.0 | 102 | 74 - 126 | 51.4 | 103 | 1 | 30 |
| 106-46-7 | 1,4-Dichlorobenzene | | ND | 5.00 | 50.0 | 48.6 | 97 | 72 - 122 | 50.1 | 100 | 3 | 30 |
| 104-51-8 | n-Butylbenzene | | ND | 5.00 | 50.0 | 55.0 | 110 | 69 - 134 | 53.9 | 108 | 2 | 30 |
| 95-50-1 | 1,2-Dichlorobenzene | | ND | 5.00 | 50.0 | 50.8 | 102 | 71 - 126 | 52.7 | 105 | 4 | 30 |
| 87-68-3 | Hexachlorobutadiene | | ND | 5.00 | 50.0 | 52.1 | 104 | 61 - 144 | 51.0 | 102 | 2 | 30 |
| 91-20-3 | Naphthalene | | ND | 5.00 | 50.0 | 43.7 | 87 | 57 - 138 | 49.2 | 98 | 12 | 35 |
| 75-35-4 | 1,1-Dichloroethene | | ND | 5.00 | 50.0 | 51.8 | 104 | 69 - 129 | 49.3 | 99 | 5 | 20 |
| 71-43-2 | Benzene | | ND | 5.00 | 50.0 | 52.7 | 105 | 70 - 129 | 53.1 | 106 | 1 | 20 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 523813 | **Client ID** | MB523813 | | | LCS523813 | | | LCSD523813 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1274572 | | | 1274573 | | | 1274574 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 01/18/2014 14:18 | | | 01/18/2014 12:32 | | | 01/18/2014 12:53 | | |
| | | **Matrix** | Water | | | Water | | | Water | | |
| **EPA 8260B** | | **Units** | **Result** | ug/L **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 79-01-6 | Trichloroethene | | ND | 5.00 | 50.0 | 52.8 | 106 | 76 - 129 | 52.4 | 105 | 1 | 20 |
| 108-88-3 | Toluene | | ND | 5.00 | 50.0 | 50.8 | 102 | 72 - 120 | 51.0 | 102 | 0 | 20 |
| 108-90-7 | Chlorobenzene | | ND | 5.00 | 50.0 | 50.3 | 101 | 74 - 123 | 51.2 | 102 | 2 | 20 |
| **Surrogate** | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | | 50.3 | 101 | 50 | 50.6 | 101 | 78 - 130 | 51.3 | 103 | | |
| 1868-53-7 | Dibromofluoromethane | | 49.3 | 99 | 50 | 48.6 | 97 | 77 - 127 | 48.3 | 97 | | |
| 2037-26-5 | Toluene d8 | | 52.1 | 104 | 50 | 49.6 | 99 | 76 - 134 | 49.5 | 99 | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | | 47.4 | 95 | 50 | 48.6 | 97 | 71 - 127 | 48.7 | 97 | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 523919 | **Client ID** | MB523919 | | | LCS523919 | | | LCSD523919 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1275014 | | | 1275015 | | | 1275016 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 01/20/2014 16:12 | | | 01/20/2014 14:30 | | | 01/20/2014 14:51 | | |
| | | **Matrix** | Solid | | | Solid | | | Solid | | |
| **EPA 8260B** | | **Units** | **Result** | ug/Kg **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 67-64-1 | Acetone | | ND | 25.0 | 50.0 | 44.0 | 88 | 38 - 152 | 53.5 | 107 | 19 | 30 |
| 74-97-5 | Bromochloromethane | | ND | 5.00 | 50.0 | 44.7 | 89 | 73 - 127 | 48.4 | 97 | 8 | 30 |
| 75-27-4 | Bromodichloromethane | | ND | 5.00 | 50.0 | 46.9 | 94 | 74 - 126 | 49.5 | 99 | 5 | 30 |
| 75-25-2 | Bromoform | | ND | 5.00 | 50.0 | 44.9 | 90 | 67 - 122 | 50.0 | 100 | 11 | 30 |
| 74-83-9 | Bromomethane | | ND | 5.00 | 50.0 | 61.3 | 123 | 48 - 139 | 60.4 | 121 | 1 | 30 |
| 75-15-0 | Carbon disulfide | | ND | 5.00 | 50.0 | 46.6 | 93 | 68 - 133 | 48.4 | 97 | 4 | 30 |
| 56-23-5 | Carbon tetrachloride | | ND | 5.00 | 50.0 | 48.1 | 96 | 71 - 133 | 49.7 | 99 | 3 | 30 |
| 75-00-3 | Chloroethane | | ND | 5.00 | 50.0 | 45.7 | 91 | 57 - 144 | 47.0 | 94 | 3 | 30 |
| 136777-61-2 | m,p-Xylene | | ND | 5.00 | 100 | 99.7 | 100 | 72 - 128 | 105 | 105 | 5 | 30 |
| 67-66-3 | Chloroform | | ND | 5.00 | 50.0 | 46.1 | 92 | 74 - 124 | 47.9 | 96 | 4 | 30 |
| 74-87-3 | Chloromethane | | ND | 5.00 | 50.0 | 52.0 | 104 | 61 - 130 | 53.3 | 107 | 2 | 30 |
| 124-48-1 | Dibromochloromethane | | ND | 5.00 | 50.0 | 46.0 | 92 | 74 - 122 | 50.4 | 101 | 9 | 30 |
| 74-95-3 | Dibromomethane | | ND | 5.00 | 50.0 | 44.7 | 89 | 72 - 125 | 49.3 | 99 | 10 | 30 |
| 75-71-8 | Dichlorodifluoromethane | | ND | 5.00 | 50.0 | 49.2 | 98 | 59 - 138 | 48.7 | 97 | 1 | 30 |
| 75-34-3 | 1,1-Dichloroethane | | ND | 5.00 | 50.0 | 48.0 | 96 | 71 - 126 | 50.7 | 101 | 5 | 30 |
| 107-06-2 | 1,2-Dichloroethane | | ND | 5.00 | 50.0 | 45.7 | 91 | 68 - 126 | 48.8 | 98 | 7 | 30 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 523919 | **Client ID** | MB523919 | | | LCS523919 | | | LCSD523919 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1275014 | | | 1275015 | | | 1275016 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 01/20/2014 16:12 | | | 01/20/2014 14:30 | | | 01/20/2014 14:51 | | |
| | | **Matrix** | Solid | | | Solid | | | Solid | | |
| **EPA 8260B** | | **Units** | ug/Kg | **Spike** | **Result** | | **Control** | **Result** | | | **RPD** |
| | | **Result** | **RDL** | **Added** | | **% R** | **Limits % R** | | **% R** | **RPD** | **Limit** |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.00 | 50.0 | 50.4 | 101 | 72 - 130 | 52.2 | 104 | 4 | 30 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | 50.0 | 48.6 | 97 | 67 - 134 | 51.1 | 102 | 5 | 30 |
| 75-09-2 | Methylene chloride | ND | 10.0 | 50.0 | 47.0 | 94 | 66 - 130 | 50.3 | 101 | 7 | 30 |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.00 | 50.0 | 48.1 | 96 | 72 - 129 | 50.9 | 102 | 6 | 30 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | 50.0 | 50.8 | 102 | 72 - 129 | 54.5 | 109 | 7 | 30 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | 50.0 | 48.3 | 97 | 72 - 126 | 53.1 | 106 | 9 | 30 |
| 100-41-4 | Ethylbenzene | ND | 5.00 | 50.0 | 47.5 | 95 | 74 - 130 | 49.1 | 98 | 3 | 30 |
| 591-78-6 | 2-Hexanone | ND | 5.00 | 50.0 | 46.5 | 93 | 47 - 137 | 55.4 | 111 | 17 | 30 |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | 50.0 | 52.7 | 105 | 74 - 125 | 54.8 | 110 | 4 | 30 |
| 78-93-3 | 2-Butanone | ND | 5.00 | 50.0 | 43.4 | 87 | 47 - 142 | 51.1 | 102 | 16 | 30 |
| 74-88-4 | Methyl iodide | ND | 5.00 | 50.0 | 46.8 | 94 | 54 - 140 | 48.7 | 97 | 4 | 30 |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | 50.0 | 40.7 | 81 | 52 - 136 | 47.4 | 95 | 15 | 30 |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | 50.0 | 50.1 | 100 | 73 - 137 | 52.0 | 104 | 4 | 30 |
| 100-42-5 | Styrene | ND | 5.00 | 50.0 | 52.1 | 104 | 72 - 128 | 54.8 | 110 | 5 | 30 |
| 127-18-4 | Tetrachloroethene | ND | 5.00 | 50.0 | 50.1 | 100 | 70 - 127 | 52.3 | 105 | 4 | 30 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | 50.0 | 48.3 | 97 | 77 - 122 | 51.0 | 102 | 5 | 30 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | 50.0 | 45.9 | 92 | 66 - 129 | 50.8 | 102 | 10 | 30 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.00 | 50.0 | 53.8 | 108 | 64 - 135 | 57.2 | 114 | 6 | 30 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.00 | 50.0 | 48.7 | 97 | 70 - 130 | 50.3 | 101 | 3 | 30 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.00 | 50.0 | 44.7 | 89 | 74 - 120 | 49.8 | 100 | 11 | 30 |
| 75-69-4 | Trichlorofluoromethane | ND | 5.00 | 50.0 | 45.7 | 91 | 64 - 141 | 47.9 | 96 | 5 | 30 |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.00 | 50.0 | 43.8 | 88 | 63 - 132 | 50.4 | 101 | 14 | 30 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.00 | 50.0 | 52.1 | 104 | 75 - 130 | 54.0 | 108 | 4 | 30 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.00 | 50.0 | 52.1 | 104 | 74 - 136 | 53.1 | 106 | 2 | 30 |
| 75-01-4 | Vinyl chloride | ND | 5.00 | 50.0 | 51.3 | 103 | 67 - 131 | 52.5 | 105 | 2 | 30 |
| 95-47-6 | o-Xylene | ND | 5.00 | 50.0 | 51.1 | 102 | 69 - 133 | 54.3 | 109 | 6 | 30 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.00 | 50.0 | 45.1 | 90 | 60 - 123 | 52.6 | 105 | 15 | 30 |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.00 | 50.0 | 45.8 | 92 | 74 - 122 | 50.5 | 101 | 10 | 30 |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 5.00 | 50.0 | 47.5 | 95 | 69 - 126 | 51.9 | 104 | 9 | 30 |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 10.0 | 100 | 99.1 | 99 | 72 - 129 | 103 | 103 | 4 | 30 |
| 99-87-6 | 4-Isopropyltoluene | ND | 5.00 | 50.0 | 53.8 | 108 | 71 - 136 | 54.8 | 110 | 2 | 30 |
| 1330-20-7 | Xylene (total) | ND | 10.0 | 150 | 151 | 101 | 71 - 129 | 160 | 107 | 6 | 30 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.00 | 50.0 | 45.3 | 91 | 44 - 146 | 51.9 | 104 | 14 | 30 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 523919 | **Client ID** | MB523919 | | | LCS523919 | | | LCSD523919 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1275014 | | | 1275015 | | | 1275016 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 01/20/2014 16:12 | | | 01/20/2014 14:30 | | | 01/20/2014 14:51 | | |
| | | **Matrix** | Solid | | | Solid | | | Solid | | |
| **EPA 8260B** | | **Units** | **Result** | ug/Kg **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 594-20-7 | 2,2-Dichloropropane | | ND | 5.00 | 50.0 | 51.5 | 103 | 74 - 129 | 53.1 | 106 | 3 | 30 |
| 76-13-1 | Trichlorotrifluoroethane | | ND | 5.00 | 50.0 | 47.3 | 95 | 66 - 139 | 49.1 | 98 | 4 | 30 |
| 563-58-6 | 1,1-Dichloropropene | | ND | 5.00 | 50.0 | 51.3 | 103 | 70 - 138 | 53.2 | 106 | 4 | 30 |
| 142-28-9 | 1,3-Dichloropropane | | ND | 5.00 | 50.0 | 46.4 | 93 | 77 - 121 | 50.9 | 102 | 9 | 30 |
| 108-86-1 | Bromobenzene | | ND | 5.00 | 50.0 | 47.9 | 96 | 73 - 124 | 50.6 | 101 | 5 | 30 |
| 95-49-8 | 2-Chlorotoluene | | ND | 5.00 | 50.0 | 50.6 | 101 | 75 - 132 | 52.6 | 105 | 4 | 30 |
| 106-43-4 | 4-Chlorotoluene | | ND | 5.00 | 50.0 | 50.7 | 101 | 74 - 133 | 53.5 | 107 | 5 | 30 |
| 98-06-6 | tert-Butylbenzene | | ND | 5.00 | 50.0 | 52.0 | 104 | 72 - 136 | 54.3 | 109 | 4 | 30 |
| 135-98-8 | sec-Butylbenzene | | ND | 5.00 | 50.0 | 52.0 | 104 | 72 - 141 | 53.3 | 107 | 2 | 30 |
| 541-73-1 | 1,3-Dichlorobenzene | | ND | 5.00 | 50.0 | 49.4 | 99 | 77 - 127 | 51.2 | 102 | 4 | 30 |
| 106-46-7 | 1,4-Dichlorobenzene | | ND | 5.00 | 50.0 | 48.8 | 98 | 74 - 123 | 50.5 | 101 | 3 | 30 |
| 104-51-8 | n-Butylbenzene | | ND | 5.00 | 50.0 | 53.4 | 107 | 68 - 144 | 54.9 | 110 | 3 | 30 |
| 95-50-1 | 1,2-Dichlorobenzene | | ND | 5.00 | 50.0 | 48.3 | 97 | 76 - 125 | 52.2 | 104 | 8 | 30 |
| 87-68-3 | Hexachlorobutadiene | | ND | 5.00 | 50.0 | 51.2 | 102 | 71 - 140 | 52.5 | 105 | 3 | 30 |
| 91-20-3 | Naphthalene | | ND | 5.00 | 50.0 | 45.0 | 90 | 54 - 132 | 50.9 | 102 | 12 | 35 |
| 75-35-4 | 1,1-Dichloroethene | | ND | 5.00 | 50.0 | 47.1 | 94 | 68 - 129 | 49.2 | 98 | 4 | 20 |
| 71-43-2 | Benzene | | ND | 5.00 | 50.0 | 48.8 | 98 | 73 - 128 | 50.9 | 102 | 4 | 20 |
| 79-01-6 | Trichloroethene | | ND | 5.00 | 50.0 | 46.4 | 93 | 78 - 127 | 49.1 | 98 | 6 | 20 |
| 108-88-3 | Toluene | | ND | 5.00 | 50.0 | 47.6 | 95 | 74 - 121 | 50.1 | 100 | 5 | 20 |
| 108-90-7 | Chlorobenzene | | ND | 5.00 | 50.0 | 47.6 | 95 | 75 - 121 | 50.2 | 100 | 5 | 20 |
| **Surrogate** | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | | 51.6 | 103 | 50 | 50 | 100 | 62 - 127 | 49.6 | 99 | | |
| 1868-53-7 | Dibromofluoromethane | | 49.9 | 100 | 50 | 49.3 | 99 | 65 - 130 | 49.9 | 100 | | |
| 2037-26-5 | Toluene d8 | | 53.3 | 107 | 50 | 50.3 | 101 | 71 - 132 | 50.6 | 101 | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | | 49.1 | 98 | 50 | 48.7 | 97 | 62 - 125 | 49.3 | 99 | | |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 523947 | **Client ID** | MB523947 | | LCS523947 | | | LCSD523947 | | | |
| **Prep Batch** | N/A | **GCAL ID** | 1275149 | | 1275150 | | | 1275151 | | | |
| | | **Sample Type** | Method Blank | | LCS | | | LCSD | | | |
| | | **Analytical Date** | 01/21/2014 12:36 | | 01/21/2014 10:30 | | | 01/21/2014 10:53 | | | |
| | | **Matrix** | Solid | | Solid | | | Solid | | | |
| **EPA 8260B** | | **Units** | ug/Kg | **Spike** | **Result** | | **Control** | **Result** | | | **RPD** |
| | | **Result** | **RDL** | **Added** | | **% R** | **Limits % R** | | **% R** | **RPD** | **Limit** |
| 67-64-1 | Acetone | ND | 25.0 | 50.0 | 52.7 | 105 | 38 - 152 | 51.6 | 103 | 2 | 30 |
| 74-97-5 | Bromochloromethane | ND | 5.00 | 50.0 | 45.7 | 91 | 73 - 127 | 45.1 | 90 | 1 | 30 |
| 75-27-4 | Bromodichloromethane | ND | 5.00 | 50.0 | 45.4 | 91 | 74 - 126 | 46.3 | 93 | 2 | 30 |
| 75-25-2 | Bromoform | ND | 5.00 | 50.0 | 48.8 | 98 | 67 - 122 | 48.7 | 97 | 0 | 30 |
| 74-83-9 | Bromomethane | ND | 5.00 | 50.0 | 52.8 | 106 | 48 - 139 | 55.1 | 110 | 4 | 30 |
| 75-15-0 | Carbon disulfide | ND | 5.00 | 50.0 | 45.3 | 91 | 68 - 133 | 44.6 | 89 | 2 | 30 |
| 56-23-5 | Carbon tetrachloride | ND | 5.00 | 50.0 | 44.7 | 89 | 71 - 133 | 44.2 | 88 | 1 | 30 |
| 75-00-3 | Chloroethane | ND | 5.00 | 50.0 | 44.7 | 89 | 57 - 144 | 43.9 | 88 | 2 | 30 |
| 136777-61-2 | m,p-Xylene | ND | 5.00 | 100 | 97.6 | 98 | 72 - 128 | 96.4 | 96 | 1 | 30 |
| 67-66-3 | Chloroform | ND | 5.00 | 50.0 | 44.0 | 88 | 74 - 124 | 44.4 | 89 | 1 | 30 |
| 74-87-3 | Chloromethane | ND | 5.00 | 50.0 | 47.8 | 96 | 61 - 130 | 46.1 | 92 | 4 | 30 |
| 124-48-1 | Dibromochloromethane | ND | 5.00 | 50.0 | 47.3 | 95 | 74 - 122 | 47.8 | 96 | 1 | 30 |
| 74-95-3 | Dibromomethane | ND | 5.00 | 50.0 | 46.8 | 94 | 72 - 125 | 47.1 | 94 | 1 | 30 |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.00 | 50.0 | 44.1 | 88 | 59 - 138 | 43.4 | 87 | 2 | 30 |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.00 | 50.0 | 45.0 | 90 | 71 - 126 | 45.2 | 90 | 0 | 30 |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.00 | 50.0 | 45.0 | 90 | 68 - 126 | 45.5 | 91 | 1 | 30 |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.00 | 50.0 | 47.1 | 94 | 72 - 130 | 47.3 | 95 | 0 | 30 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | 50.0 | 45.6 | 91 | 67 - 134 | 45.5 | 91 | 0 | 30 |
| 75-09-2 | Methylene chloride | ND | 10.0 | 50.0 | 50.3 | 101 | 66 - 130 | 52.0 | 104 | 3 | 30 |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.00 | 50.0 | 46.1 | 92 | 72 - 129 | 46.6 | 93 | 1 | 30 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | 50.0 | 49.9 | 100 | 72 - 129 | 51.2 | 102 | 3 | 30 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | 50.0 | 48.9 | 98 | 72 - 126 | 49.9 | 100 | 2 | 30 |
| 100-41-4 | Ethylbenzene | ND | 5.00 | 50.0 | 45.9 | 92 | 74 - 130 | 45.9 | 92 | 0 | 30 |
| 591-78-6 | 2-Hexanone | ND | 5.00 | 50.0 | 53.6 | 107 | 47 - 137 | 53.5 | 107 | 0 | 30 |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | 50.0 | 50.5 | 101 | 74 - 125 | 49.9 | 100 | 1 | 30 |
| 78-93-3 | 2-Butanone | ND | 5.00 | 50.0 | 50.4 | 101 | 47 - 142 | 49.4 | 99 | 2 | 30 |
| 74-88-4 | Methyl iodide | ND | 5.00 | 50.0 | 47.0 | 94 | 54 - 140 | 47.6 | 95 | 1 | 30 |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | 50.0 | 45.1 | 90 | 52 - 136 | 44.4 | 89 | 2 | 30 |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | 50.0 | 45.7 | 91 | 73 - 137 | 45.5 | 91 | 0 | 30 |
| 100-42-5 | Styrene | ND | 5.00 | 50.0 | 50.5 | 101 | 72 - 128 | 51.2 | 102 | 1 | 30 |
| 127-18-4 | Tetrachloroethene | ND | 5.00 | 50.0 | 48.5 | 97 | 70 - 127 | 47.8 | 96 | 1 | 30 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | 50.0 | 47.5 | 95 | 77 - 122 | 47.9 | 96 | 1 | 30 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | 50.0 | 47.3 | 95 | 66 - 129 | 46.1 | 92 | 3 | 30 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 523947 | **Client ID** | MB523947 | | | LCS523947 | | | LCSD523947 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1275149 | | | 1275150 | | | 1275151 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 01/21/2014 12:36 | | | 01/21/2014 10:30 | | | 01/21/2014 10:53 | | |
| | | **Matrix** | Solid | | | Solid | | | Solid | | |
| **EPA 8260B** | | **Units** | ug/Kg | **Spike** | **Result** | | **Control** | **Result** | | | **RPD** |
| | | **Result** | **RDL** | **Added** | | **% R** | **Limits % R** | | **% R** | **RPD** | **Limit** |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.00 | 50.0 | 50.4 | 101 | 64 - 135 | 51.4 | 103 | 2 | 30 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.00 | 50.0 | 45.7 | 91 | 70 - 130 | 45.4 | 91 | 1 | 30 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.00 | 50.0 | 46.1 | 92 | 74 - 120 | 47.5 | 95 | 3 | 30 |
| 75-69-4 | Trichlorofluoromethane | ND | 5.00 | 50.0 | 44.7 | 89 | 64 - 141 | 43.4 | 87 | 3 | 30 |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.00 | 50.0 | 46.2 | 92 | 63 - 132 | 45.1 | 90 | 2 | 30 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.00 | 50.0 | 48.0 | 96 | 75 - 130 | 48.4 | 97 | 1 | 30 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.00 | 50.0 | 47.5 | 95 | 74 - 136 | 47.7 | 95 | 0 | 30 |
| 75-01-4 | Vinyl chloride | ND | 5.00 | 50.0 | 48.5 | 97 | 67 - 131 | 48.0 | 96 | 1 | 30 |
| 95-47-6 | o-Xylene | ND | 5.00 | 50.0 | 49.8 | 100 | 69 - 133 | 50.1 | 100 | 1 | 30 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.00 | 50.0 | 50.8 | 102 | 60 - 123 | 49.6 | 99 | 2 | 30 |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.00 | 50.0 | 48.0 | 96 | 74 - 122 | 48.6 | 97 | 1 | 30 |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 5.00 | 50.0 | 48.2 | 96 | 69 - 126 | 49.2 | 98 | 2 | 30 |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 10.0 | 100 | 92.6 | 93 | 72 - 129 | 92.7 | 93 | 0 | 30 |
| 99-87-6 | 4-Isopropyltoluene | ND | 5.00 | 50.0 | 48.8 | 98 | 71 - 136 | 49.0 | 98 | 0 | 30 |
| 1330-20-7 | Xylene (total) | ND | 10.0 | 150 | 147 | 98 | 71 - 129 | 147 | 98 | 0 | 30 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.00 | 50.0 | 47.5 | 95 | 44 - 146 | 47.2 | 94 | 1 | 30 |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.00 | 50.0 | 47.6 | 95 | 74 - 129 | 47.3 | 95 | 1 | 30 |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.00 | 50.0 | 46.3 | 93 | 66 - 139 | 45.0 | 90 | 3 | 30 |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.00 | 50.0 | 47.0 | 94 | 70 - 138 | 46.7 | 93 | 1 | 30 |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.00 | 50.0 | 47.8 | 96 | 77 - 121 | 47.6 | 95 | 0 | 30 |
| 108-86-1 | Bromobenzene | ND | 5.00 | 50.0 | 44.4 | 89 | 73 - 124 | 45.0 | 90 | 1 | 30 |
| 95-49-8 | 2-Chlorotoluene | ND | 5.00 | 50.0 | 47.0 | 94 | 75 - 132 | 46.5 | 93 | 1 | 30 |
| 106-43-4 | 4-Chlorotoluene | ND | 5.00 | 50.0 | 47.8 | 96 | 74 - 133 | 47.9 | 96 | 0 | 30 |
| 98-06-6 | tert-Butylbenzene | ND | 5.00 | 50.0 | 48.0 | 96 | 72 - 136 | 48.3 | 97 | 1 | 30 |
| 135-98-8 | sec-Butylbenzene | ND | 5.00 | 50.0 | 47.7 | 95 | 72 - 141 | 47.3 | 95 | 1 | 30 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.00 | 50.0 | 46.6 | 93 | 77 - 127 | 46.9 | 94 | 1 | 30 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.00 | 50.0 | 46.0 | 92 | 74 - 123 | 46.1 | 92 | 0 | 30 |
| 104-51-8 | n-Butylbenzene | ND | 5.00 | 50.0 | 48.7 | 97 | 68 - 144 | 48.3 | 97 | 1 | 30 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.00 | 50.0 | 47.0 | 94 | 76 - 125 | 47.6 | 95 | 1 | 30 |
| 87-68-3 | Hexachlorobutadiene | ND | 5.00 | 50.0 | 47.6 | 95 | 71 - 140 | 48.1 | 96 | 1 | 30 |
| 91-20-3 | Naphthalene | ND | 5.00 | 50.0 | 47.2 | 94 | 54 - 132 | 47.8 | 96 | 1 | 35 |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.00 | 50.0 | 46.4 | 93 | 68 - 129 | 45.2 | 90 | 3 | 20 |
| 71-43-2 | Benzene | ND | 5.00 | 50.0 | 46.4 | 93 | 73 - 128 | 46.4 | 93 | 0 | 20 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 523947 | **Client ID** | MB523947 | | | LCS523947 | | | LCSD523947 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1275149 | | | 1275150 | | | 1275151 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 01/21/2014 12:36 | | | 01/21/2014 10:30 | | | 01/21/2014 10:53 | | |
| | | **Matrix** | Solid | | | Solid | | | Solid | | |
| **EPA 8260B** | | **Units** | **Result** | ug/Kg **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 79-01-6 | Trichloroethene | | ND | 5.00 | 50.0 | 45.1 | 90 | 78 - 127 | 45.1 | 90 | 0 | 20 |
| 108-88-3 | Toluene | | ND | 5.00 | 50.0 | 46.2 | 92 | 74 - 121 | 45.8 | 92 | 1 | 20 |
| 108-90-7 | Chlorobenzene | | ND | 5.00 | 50.0 | 46.3 | 93 | 75 - 121 | 47.2 | 94 | 2 | 20 |
| **Surrogate** | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | | 52.3 | 105 | 50 | 51.5 | 103 | 62 - 127 | 51.4 | 103 | | |
| 1868-53-7 | Dibromofluoromethane | | 51.3 | 103 | 50 | 49.2 | 98 | 65 - 130 | 49.6 | 99 | | |
| 2037-26-5 | Toluene d8 | | 54.1 | 108 | 50 | 49.5 | 99 | 71 - 132 | 50.4 | 101 | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | | 50.5 | 101 | 50 | 49.3 | 99 | 62 - 125 | 48.9 | 98 | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 524047 | **Client ID** | MB524047 | | | LCS524047 | | | LCSD524047 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1275866 | | | 1275867 | | | 1275868 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 01/22/2014 08:42 | | | 01/22/2014 07:22 | | | 01/22/2014 07:42 | | |
| | | **Matrix** | Solid | | | Solid | | | Solid | | |
| **EPA 8260B** | | **Units** | **Result** | ug/Kg **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 67-64-1 | Acetone | | ND | 1250 | 2500 | 2210 | 88 | 38 - 152 | 2410 | 96 | 9 | 30 |
| 74-97-5 | Bromochloromethane | | ND | 250 | 2500 | 2620 | 105 | 73 - 127 | 2620 | 105 | 0 | 30 |
| 75-27-4 | Bromodichloromethane | | ND | 250 | 2500 | 2560 | 102 | 74 - 126 | 2710 | 108 | 6 | 30 |
| 75-25-2 | Bromoform | | ND | 250 | 2500 | 2310 | 92 | 67 - 122 | 2440 | 98 | 5 | 30 |
| 74-83-9 | Bromomethane | | ND | 250 | 2500 | 2300 | 92 | 48 - 139 | 2480 | 99 | 8 | 30 |
| 75-15-0 | Carbon disulfide | | ND | 250 | 2500 | 2660 | 106 | 68 - 133 | 2590 | 104 | 3 | 30 |
| 56-23-5 | Carbon tetrachloride | | ND | 250 | 2500 | 2600 | 104 | 71 - 133 | 2630 | 105 | 1 | 30 |
| 75-00-3 | Chloroethane | | ND | 250 | 2500 | 2690 | 108 | 57 - 144 | 2710 | 108 | 1 | 30 |
| 136777-61-2 | m,p-Xylene | | ND | 250 | 5000 | 5430 | 109 | 72 - 128 | 5510 | 110 | 1 | 30 |
| 67-66-3 | Chloroform | | ND | 250 | 2500 | 2550 | 102 | 74 - 124 | 2610 | 104 | 2 | 30 |
| 74-87-3 | Chloromethane | | ND | 250 | 2500 | 2470 | 99 | 61 - 130 | 2560 | 102 | 4 | 30 |
| 124-48-1 | Dibromochloromethane | | ND | 250 | 2500 | 2700 | 108 | 74 - 122 | 2810 | 112 | 4 | 30 |
| 74-95-3 | Dibromomethane | | ND | 250 | 2500 | 2690 | 108 | 72 - 125 | 2780 | 111 | 3 | 30 |
| 75-71-8 | Dichlorodifluoromethane | | ND | 250 | 2500 | 2480 | 99 | 59 - 138 | 2490 | 100 | 0 | 30 |
| 75-34-3 | 1,1-Dichloroethane | | ND | 250 | 2500 | 2600 | 104 | 71 - 126 | 2690 | 108 | 3 | 30 |
| 107-06-2 | 1,2-Dichloroethane | | ND | 250 | 2500 | 2440 | 98 | 68 - 126 | 2540 | 102 | 4 | 30 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 524047 | **Client ID** | MB524047 | | | LCS524047 | | | LCSD524047 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1275866 | | | 1275867 | | | 1275868 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 01/22/2014 08:42 | | | 01/22/2014 07:22 | | | 01/22/2014 07:42 | | |
| | | **Matrix** | Solid | | | Solid | | | Solid | | |
| **EPA 8260B** | | **Units** | **Result** | ug/Kg **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 156-59-2 | cis-1,2-Dichloroethene | | ND | 250 | 2500 | 2670 | 107 | 72 - 130 | 2750 | 110 | 3 | 30 |
| 156-60-5 | trans-1,2-Dichloroethene | | ND | 250 | 2500 | 2700 | 108 | 67 - 134 | 2680 | 107 | 1 | 30 |
| 75-09-2 | Methylene chloride | | ND | 500 | 2500 | 2440 | 98 | 66 - 130 | 2510 | 100 | 3 | 30 |
| 78-87-5 | 1,2-Dichloropropane | | ND | 250 | 2500 | 2620 | 105 | 72 - 129 | 2670 | 107 | 2 | 30 |
| 10061-01-5 | cis-1,3-Dichloropropene | | ND | 250 | 2500 | 2640 | 106 | 72 - 129 | 2760 | 110 | 4 | 30 |
| 10061-02-6 | trans-1,3-Dichloropropene | | ND | 250 | 2500 | 2690 | 108 | 72 - 126 | 2820 | 113 | 5 | 30 |
| 100-41-4 | Ethylbenzene | | ND | 250 | 2500 | 2690 | 108 | 74 - 130 | 2730 | 109 | 1 | 30 |
| 591-78-6 | 2-Hexanone | | ND | 250 | 2500 | 2380 | 95 | 47 - 137 | 2620 | 105 | 10 | 30 |
| 98-82-8 | Isopropylbenzene (Cumene) | | ND | 250 | 2500 | 2790 | 112 | 74 - 125 | 2740 | 110 | 2 | 30 |
| 78-93-3 | 2-Butanone | | ND | 250 | 2500 | 2170 | 87 | 47 - 142 | 2460 | 98 | 13 | 30 |
| 74-88-4 | Methyl iodide | | ND | 250 | 2500 | 2690 | 108 | 54 - 140 | 2790 | 112 | 4 | 30 |
| 108-10-1 | 4-Methyl-2-pentanone | | ND | 250 | 2500 | 2410 | 96 | 52 - 136 | 2630 | 105 | 9 | 30 |
| 103-65-1 | n-Propylbenzene | | ND | 250 | 2500 | 2740 | 110 | 73 - 137 | 2680 | 107 | 2 | 30 |
| 100-42-5 | Styrene | | ND | 250 | 2500 | 2770 | 111 | 72 - 128 | 2890 | 116 | 4 | 30 |
| 127-18-4 | Tetrachloroethene | | ND | 250 | 2500 | 2740 | 110 | 70 - 127 | 2820 | 113 | 3 | 30 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | | ND | 250 | 2500 | 2620 | 105 | 77 - 122 | 2730 | 109 | 4 | 30 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | ND | 250 | 2500 | 2350 | 94 | 66 - 129 | 2530 | 101 | 7 | 30 |
| 120-82-1 | 1,2,4-Trichlorobenzene | | ND | 250 | 2500 | 2780 | 111 | 64 - 135 | 2710 | 108 | 3 | 30 |
| 71-55-6 | 1,1,1-Trichloroethane | | ND | 250 | 2500 | 2630 | 105 | 70 - 130 | 2690 | 108 | 2 | 30 |
| 79-00-5 | 1,1,2-Trichloroethane | | ND | 250 | 2500 | 2590 | 104 | 74 - 120 | 2710 | 108 | 5 | 30 |
| 75-69-4 | Trichlorofluoromethane | | ND | 250 | 2500 | 2540 | 102 | 64 - 141 | 2560 | 102 | 1 | 30 |
| 96-18-4 | 1,2,3-Trichloropropane | | ND | 250 | 2500 | 2410 | 96 | 63 - 132 | 2460 | 98 | 2 | 30 |
| 95-63-6 | 1,2,4-Trimethylbenzene | | ND | 250 | 2500 | 2820 | 113 | 75 - 130 | 2790 | 112 | 1 | 30 |
| 108-67-8 | 1,3,5-Trimethylbenzene | | ND | 250 | 2500 | 2860 | 114 | 74 - 136 | 2780 | 111 | 3 | 30 |
| 75-01-4 | Vinyl chloride | | ND | 250 | 2500 | 2550 | 102 | 67 - 131 | 2570 | 103 | 1 | 30 |
| 95-47-6 | o-Xylene | | ND | 250 | 2500 | 2780 | 111 | 69 - 133 | 2810 | 112 | 1 | 30 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | ND | 250 | 2500 | 2320 | 93 | 60 - 123 | 2520 | 101 | 8 | 30 |
| 106-93-4 | 1,2-Dibromoethane | | ND | 250 | 2500 | 2590 | 104 | 74 - 122 | 2730 | 109 | 5 | 30 |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | | ND | 250 | 2500 | 2660 | 106 | 69 - 126 | 2820 | 113 | 6 | 30 |
| 540-59-0 | 1,2-Dichloroethene(Total) | | ND | 500 | 5000 | 5370 | 107 | 72 - 129 | 5430 | 109 | 1 | 30 |
| 99-87-6 | 4-Isopropyltoluene | | ND | 250 | 2500 | 2910 | 116 | 71 - 136 | 2790 | 112 | 4 | 30 |
| 1330-20-7 | Xylene (total) | | ND | 500 | 7500 | 8220 | 110 | 71 - 129 | 8320 | 111 | 1 | 30 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | | ND | 250 | 2500 | 2440 | 98 | 44 - 146 | 2620 | 105 | 7 | 30 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 524047 | **Client ID** | MB524047 | | | LCS524047 | | | LCSD524047 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1275866 | | | 1275867 | | | 1275868 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 01/22/2014 08:42 | | | 01/22/2014 07:22 | | | 01/22/2014 07:42 | | |
| | | **Matrix** | Solid | | | Solid | | | Solid | | |
| **EPA 8260B** | | **Units** | **Result** | ug/Kg **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 594-20-7 | 2,2-Dichloropropane | | ND | 250 | 2500 | 2780 | 111 | 74 - 129 | 2810 | 112 | 1 | 30 |
| 76-13-1 | Trichlorotrifluoroethane | | ND | 250 | 2500 | 2630 | 105 | 66 - 139 | 2640 | 106 | 0 | 30 |
| 563-58-6 | 1,1-Dichloropropene | | ND | 250 | 2500 | 2650 | 106 | 70 - 138 | 2710 | 108 | 2 | 30 |
| 142-28-9 | 1,3-Dichloropropane | | ND | 250 | 2500 | 2490 | 100 | 77 - 121 | 2630 | 105 | 5 | 30 |
| 108-86-1 | Bromobenzene | | ND | 250 | 2500 | 2550 | 102 | 73 - 124 | 2620 | 105 | 3 | 30 |
| 95-49-8 | 2-Chlorotoluene | | ND | 250 | 2500 | 2680 | 107 | 75 - 132 | 2660 | 106 | 1 | 30 |
| 106-43-4 | 4-Chlorotoluene | | ND | 250 | 2500 | 2670 | 107 | 74 - 133 | 2690 | 108 | 1 | 30 |
| 98-06-6 | tert-Butylbenzene | | ND | 250 | 2500 | 2790 | 112 | 72 - 136 | 2710 | 108 | 3 | 30 |
| 135-98-8 | sec-Butylbenzene | | ND | 250 | 2500 | 2840 | 114 | 72 - 141 | 2720 | 109 | 4 | 30 |
| 541-73-1 | 1,3-Dichlorobenzene | | ND | 250 | 2500 | 2610 | 104 | 77 - 127 | 2580 | 103 | 1 | 30 |
| 106-46-7 | 1,4-Dichlorobenzene | | ND | 250 | 2500 | 2590 | 104 | 74 - 123 | 2630 | 105 | 2 | 30 |
| 104-51-8 | n-Butylbenzene | | ND | 250 | 2500 | 2920 | 117 | 68 - 144 | 2760 | 110 | 6 | 30 |
| 95-50-1 | 1,2-Dichlorobenzene | | ND | 250 | 2500 | 2610 | 104 | 76 - 125 | 2630 | 105 | 1 | 30 |
| 87-68-3 | Hexachlorobutadiene | | ND | 250 | 2500 | 3120 | 125 | 71 - 140 | 2950 | 118 | 6 | 30 |
| 91-20-3 | Naphthalene | | ND | 250 | 2500 | 2670 | 107 | 54 - 132 | 2780 | 111 | 4 | 35 |
| 75-35-4 | 1,1-Dichloroethene | | ND | 250 | 2500 | 2620 | 105 | 68 - 129 | 2620 | 105 | 0 | 20 |
| 71-43-2 | Benzene | | ND | 250 | 2500 | 2580 | 103 | 73 - 128 | 2620 | 105 | 2 | 20 |
| 79-01-6 | Trichloroethene | | ND | 250 | 2500 | 2570 | 103 | 78 - 127 | 2620 | 105 | 2 | 20 |
| 108-88-3 | Toluene | | ND | 250 | 2500 | 2560 | 102 | 74 - 121 | 2610 | 104 | 2 | 20 |
| 108-90-7 | Chlorobenzene | | ND | 250 | 2500 | 2550 | 102 | 75 - 121 | 2660 | 106 | 4 | 20 |
| **Surrogate** | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | | 2540 | 102 | 2500 | 2530 | 101 | 62 - 127 | 2530 | 101 | | |
| 1868-53-7 | Dibromofluoromethane | | 2410 | 96 | 2500 | 2430 | 97 | 65 - 130 | 2460 | 98 | | |
| 2037-26-5 | Toluene d8 | | 2590 | 104 | 2500 | 2490 | 100 | 71 - 132 | 2530 | 101 | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | | 2450 | 98 | 2500 | 2400 | 96 | 62 - 125 | 2380 | 95 | | |

# General Chromatography Quality Control Summary

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 523911 | **Client ID** | MB523788 | | | LCS523788 | | | LCSD523788 | | | |
| **Prep Batch** | 523788 | **GCAL ID** | 1274369 | | | 1274370 | | | 1274371 | | | |
| **Prep Method** | EPA 3550C | **Sample Type** | Method Blank | | | LCS | | | LCSD | | | |
| | | **Prep Date** | 01/18/2014 03:10 | | | 01/18/2014 03:10 | | | 01/18/2014 03:10 | | | |
| | | **Analytical Date** | 01/20/2014 08:53 | | | 01/20/2014 09:11 | | | 01/20/2014 09:30 | | | |
| | | **Matrix** | Solid | | | Solid | | | Solid | | | |
| **EPA 8015C** | | **Units** | **Result** | ug/Kg **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| GCSV-00-4 | Diesel Range Organics | | ND | 4000 | 33300 | 23300 | 70 | 50 - 124 | 23100 | 69 | 1 | 40 |
| **Surrogate** | | | | | | | | | | | | |
| 84-15-1 | o-Terphenyl | | 1130 | 68 | 1670 | 1140 | 68 | 63 - 120 | 1130 | 68 | | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 524003 | **Client ID** | MB523898 | | | LCS523898 | | | LCSD523898 | | | |
| **Prep Batch** | 523898 | **GCAL ID** | 1274869 | | | 1274870 | | | 1274871 | | | |
| **Prep Method** | EPA 3550C | **Sample Type** | Method Blank | | | LCS | | | LCSD | | | |
| | | **Prep Date** | 01/20/2014 12:15 | | | 01/20/2014 12:15 | | | 01/20/2014 12:15 | | | |
| | | **Analytical Date** | 01/21/2014 12:13 | | | 01/21/2014 12:31 | | | 01/21/2014 12:50 | | | |
| | | **Matrix** | Solid | | | Solid | | | Solid | | | |
| **EPA 8015C** | | **Units** | **Result** | ug/Kg **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| GCSV-00-4 | Diesel Range Organics | | ND | 4000 | 33300 | 33200 | 99 | 50 - 124 | 31700 | 95 | 5 | 40 |
| **Surrogate** | | | | | | | | | | | | |
| 84-15-1 | o-Terphenyl | | 1260 | 76 | 1670 | 1420 | 85 | 63 - 120 | 1370 | 82 | | |

# General Chromatography Quality Control Summary

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Analytical Batch** 524066 | | **Client ID** | MB524066 | | LCS524066 | | |
| **Prep Batch** N/A | | **GCAL ID** | 1275914 | | 1275915 | | |
| | | **Sample Type** | Method Blank | | LCS | | |
| | | **Analytical Date** | 01/22/2014 11:45 | | 01/22/2014 11:25 | | |
| | | **Matrix** | Solid | | Solid | | |
| **EPA 8015C** | | **Units** | ug/Kg | **Spike** | **Result** | | **Control** |
| | | **Result** | **RDL** | **Added** | | **% R** | **Limits % R** |
| 8006-61-9 | Gasoline Range Organics | ND | 5000 | 25000 | 20400 | 81 | 67 - 127 |
| **Surrogate** | | | | | | | |
| 106-39-8 | Bromochlorobenzene | 1090 | 73 | 1500 | 1320 | 88 | 47 - 164 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** 524066 | | **Client ID** | UST-1 AT 5 | | | 1274105MS | | | 1274105MSD | | | |
| **Prep Batch** N/A | | **GCAL ID** | 21401170826 | | | 1275916 | | | 1275917 | | | |
| | | **Sample Type** | SAMPLE | | | MS | | | MSD | | | |
| | | **Analytical Date** | 01/22/2014 12:27 | | | 01/22/2014 12:47 | | | 01/22/2014 13:09 | | | |
| | | **Matrix** | Solid | | | Solid | | | Solid | | | |
| **EPA 8015C** | | **Units** | ug/Kg | **Spike** | **Result** | | **Control** | **Result** | | | | **RPD** |
| | | **Result** | **RDL** | **Added** | | **% R** | **Limits % R** | | **% R** | **RPD** | | **Limit** |
| 8006-61-9 | Gasoline Range Organics | 0.00 | 2500 | 12500 | 10400 | 83 | 67 - 127 | 10400 | 83 | 0 | | 40 |
| **Surrogate** | | | | | | | | | | | | |
| 106-39-8 | Bromochlorobenzene | 561 | 75 | 751 | 637 | 85 | 47 - 164 | 665 | 89 | | | |

# General Chemistry Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 523839 | **Client ID** | MB523768 | | | LCS523768 | | | LCSD523768 | | |
| **Prep Batch** | 523768 | **GCAL ID** | 1274241 | | | 1274242 | | | 1274243 | | |
| **Prep Method** | EPA 9071B | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Prep Date** | 01/17/2014 14:30 | | | 01/17/2014 14:30 | | | 01/17/2014 14:30 | | |
| | | **Analytical Date** | 01/20/2014 09:00 | | | 01/20/2014 09:00 | | | 01/20/2014 09:00 | | |
| | | **Matrix** | Solid | | | Solid | | | Solid | | |
| **EPA 9071B** | | **Units** | mg/kg | | **Spike** | **Result** | | **Control** | **Result** | | | **RPD** |
| | | **Result** | | **RDL** | **Added** | | **% R** | **Limits % R** | | **% R** | **RPD** | **Limit** |
| C-007 | Oil and Grease | | ND | 500 | 4000 | 3630 | 91 | 70 - 130 | 3410 | 85 | 6 | 30 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 523844 | **Client ID** | MB523769 | | | LCS523769 | | | LCSD523769 | | |
| **Prep Batch** | 523769 | **GCAL ID** | 1274244 | | | 1274245 | | | 1274246 | | |
| **Prep Method** | EPA 9071B | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Prep Date** | 01/17/2014 14:30 | | | 01/17/2014 14:30 | | | 01/17/2014 14:30 | | |
| | | **Analytical Date** | 01/21/2014 09:30 | | | 01/21/2014 09:30 | | | 01/21/2014 09:30 | | |
| | | **Matrix** | Solid | | | Solid | | | Solid | | |
| **EPA 9071B** | | **Units** | mg/kg | | **Spike** | **Result** | | **Control** | **Result** | | | **RPD** |
| | | **Result** | | **RDL** | **Added** | | **% R** | **Limits % R** | | **% R** | **RPD** | **Limit** |
| C-007 | Oil and Grease | | ND | 500 | 4000 | 3800 | 95 | 70 - 130 | 3880 | 97 | 2 | 30 |

# GCAL

7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

## CHAIN OF CUSTODY RECORD

Lab use only

Client Name

Client ID: 4642 - Sage Environmental
SDG: 214011708
Due Date: 01/24/14

**Report to:**
Client: SAGE Environmental
Address: 600 Chastain RD. Suite 320
Contact: Jack Wintle
Phone: 678-431-0130
Fax:

**Bill to:**
Client: SAME
Address:
Contact:
Phone:
Fax:

Custody Seal
used ☑ yes ☐ no
intact ☑ yes ☐ no
Temperature °C 3.4 E22

P.O. Number: 1221-1-3
Project Name/Number: Raviol URP
Sampled By: Damian Mason

| Matrix[1] | Date | Time (2400) | Comp | Grab | Sample Description | Preservatives | No Containers | VOCs | DRO | GRO | O+G | | | | | | | Remarks: | Lab ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | 11/5 | 10:50 | | X | PD-1@10' | | 4 | X | | | X | | | | | | | | 1 |
| | | 10:20 | | | PD-2@10' | | 4 | X | | | X | | | | | | | | 2 |
| | | 10:00 | | | PD-3@2' | | 4 | X | | | X | | | | | | | | 3 |
| | | 10:00 | | | PD-3@10' | | 4 | X | | | X | | | | | | | | 4 |
| | | 14:00 | | | OT-5@10' | | 4 | X | | | X | | | | | | | | 5 |
| | | 13:10 | | | OT-6@5' | | 4 | X | | | X | | | | | | | | 6 |
| | | 13:10 | | | OT-6@10' | | 4 | X | | | X | | | | | | | | 7 |
| | | 12:40 | | | OT-7@2' | | 4 | X | | | X | | | | | | | | 8 |
| | | 8:50 | | | MS-1@5' | | 4 | X | | | X | | | | | | | | 9 |
| | | 9:00 | | | MS-2@5' | | 4 | X | | | X | | | | | | | | 10 |
| | | 9:15 | | | MS-3@10' | | 4 | X | | | X | | | | | | | | 11 |
| | | 11:15 | | | CO-1@10' | | 4 | X | X | | X | | | | | | | | 12 |
| | | 11:00 | | | CO-2@5' | | 4 | X | X | | X | | | | | | | | 13 |

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| [illegible] | Hugo Anez | 1/16/14 | 11:01 |
| Fedex | [illegible] | 1/17/14 | 1000 |
| 7976 5046 6854 | | | |

Note: PD-1@10' had a high PID reading

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

**We cannot accept verbal changes. Please fax written changes to (225) 767-5717**

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

# GCAL

7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

## CHAIN OF CUSTODY RECORD

Lab use only

Client Name

Client ID: 4642 - Sage Environmental
SDG: 214011708
Due Date: 01/24/14

**Report to:**
Client: SAGE Environmental
Address: 600 Chastain RD Suite 320
Contact: Jack Winte
Phone: 678-431-0130
Fax:

**Bill to:**
Client: SAme
Address:
Contact:
Phone:
Fax:

Analytical Requests & Method

Custody Seal
used ☑ yes ☐ no
intact ☑ yes ☐ no
Temperature °C 3.4 E22

P.O. Number: 1221-1-3
Project Name/Number: Rayloc URP
Sampled By: Damian Mason

| Matrix[1] | Date | Time (2400) | Comp | Grab | Sample Description | Preservatives | No Containers | VOCs | DRO | GRO | OTG | | | | | | | Remarks: | Lab ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | 1/14 | 10:50 | | X | AST-1 @ 10' | | 3 | X | | | | | | | | | | | 14 |
| | | 11:00 | | | AST-2 @ 10' | | 3 | X | | | | | | | | | | | 15 |
| | | 11:45 | | | AST-3 @ 10' | | 3 | X | | | | | | | | | | | 16 |
| | | 11:33 | | | OT-1 @ 10' | | 4 | X | | | X | | | | | | | | 17 |
| | | 12:10 | | | OT-2 @ 2' | | 4 | X | | | X | | | | | | | | 18 |
| | | 14:00 | | | OT-3 @ 10' | | 4 | X | | | X | | | | | | | | 19 |
| | | 14:00 | | | OT-3 @ 2' | | 4 | X | | | X | | | | | | | | 20 |
| | | 15:00 | | | OT-4 @ 10' | | 4 | X | | | X | | | | | | | | 21 |
| | | 14:40 | | | CD-1 @ 5' | | 4 | X | X | | X | | | | | | | | 22 |
| | | 14:40 | | | CD-1 @ 10' | | 4 | X | X | | X | | | | | | | | 23 |
| | | 14:20 | | | CD-2 @ 5' | | 4 | X | X | | X | | | | | | | | 24 |
| | | 12:10 | | | OT-2 @ 10' | | 4 | X | | | X | | | | | | | | 25 |
| DM | DM | | | DM | | | | | | | | | | | | | | | |

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| [signature] | Hugo Alvez | 1/16/14 | 11:01 |
| FedEx | [signature] | 1/17/14 | 1000 |
| | | | |

Note: High PID readings on OT-3 @ 2'

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

**We cannot accept verbal changes. Please fax written changes to (225) 767-5717**

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

# GCAL

7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

## CHAIN OF CUSTODY RECORD

Lab use only

Client Name | Client

**Client ID:** 4642 - Sage Environmental
**SDG:** 214011708
**Due Date:** 01/24/14

**Report to:**
Client: SAGE Environmental
Address: 600 Chastain RD
Suite 320
Contact: Jack Winkle
Phone: 678-431-6130
Fax:

**Bill to:**
Client: SAME
Address:
Contact:
Phone:
Fax:

P.O. Number: 1221-1-3
Project Name/Number: Raylock URP
Sampled By:

Analytical Requests & Method

**Lab use only:**
Custody Seal
used ☑ yes ☐ no
intact ☑ yes ☐ no
Temperature °C 3.4 E22

| Matrix[1] | Date | Time (2400) | Comp | Grab | Sample Description | Preservatives | No Containers | GRO | VOC | Remarks: | Lab ID |
|---|---|---|---|---|---|---|---|---|---|---|---|
| S | 1/15 | 15:00 | | X | UST-1 @ 5' | | 3 | X | | | 26 |
| S | 1/15 | 15:05 | | X | UST-2 @ 2' | | 3 | X | | | 27 |
| W | 1/15 | — | | | Trip Blank -IX5 | | | | X | Added by IKS | |

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| [illegible] | Hugo Alvez | 1/16/14 | 11:01 |
| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
| FedEx | [illegible] | 1/17/14 | 1000 |
| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
| | | | |

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

**We cannot accept verbal changes. Please fax written changes to (225) 767-5717**

GCAL ANALYTICAL LABORATORIES, LLC

# SAMPLE RECEIVING CHECKLIST

*214011708*

## SAMPLE DELIVERY GROUP 214011708

| | |
|---|---|
| **Client**<br>4642 - Sage Environmental | **Transport Method**<br>FEDEX |
| **Profile Number**<br>240745 | **Received By**<br>Saucier, Charlotte |
| **Line Item(s)**<br>2 - Soils | **Receive Date(s)**<br>01/17/14 |

| CHECKLIST | YES | NO | NA |
|---|---|---|---|
| Were all samples received using proper thermal preservation? | ☑ | ☐ | ☐ |
| When used, were all custody seals intact? | ☑ | ☐ | ☐ |
| Were all samples received in proper containers? | ☑ | ☐ | ☐ |
| Were all samples received using proper chemical preservation? | ☑ | ☐ | ☐ |
| Was preservative added to any container at the lab? | ☐ | ☑ | ☐ |
| Were all containers received in good condition? | ☐ | ☑ | ☐ |
| Were all VOA vials received with no head space? | ☑ | ☐ | ☐ |
| Do all sample labels match the Chain of Custody? | ☑ | ☐ | ☐ |
| Did the Chain of Custody list the sampling technician? | ☑ | ☐ | ☐ |
| Was the COC maintained i.e. all signatures, dates and time of receipt included? | ☑ | ☐ | ☐ |

## COOLERS

| Airbill | Thermometer ID: E22 | Temp(°C) |
|---|---|---|
| 7976 5046 6854 | | 3.4 |

## DISCREPANCIES

**21401170808** - OT-7 AT 2:
Broken Container (Container 3 - Unassigned)

## LAB PRESERVATIONS

None

## NOTES

Revision 1.4

*NELAP CERTIFICATE NUMBER 01955*
*DOD ELAP CERTIFICATE NUMBER L13-190*

# ANALYTICAL RESULTS

**PERFORMED BY**


**GCAL, LLC**

**7979 Innovation Park Dr.**

**Baton Rouge, LA 70820**


**Report Date** 09/10/2014

**GCAL Report** 214083017

| | |
|---|---|
| ***Deliver To*** | Sage Environmental Services<br>600 Chastain Rd.<br>Kennesaw, GA 30144<br>678-431-0130 |
| ***Attn*** | Jack Wintle |

***Project*** Rayloc Delineation

# Case Narrative

**Client:** Sage Environmental **Report:** 214083017

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

**VOLATILES MASS SPECTROMETRY**

In the EPA 8260B analysis, several samples had to be diluted to bracket the concentration of target compounds within the calibration range of the instrument and/or to eliminate interference from non-target background. This is reflected in elevated reporting limits.

# Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

**Common Abbreviations Utilized in this Report**

| | |
|---|---|
| **ND** | Indicates the result was Not Detected at the specified RDL |
| **DO** | Indicates the result was Diluted Out |
| **MI** | Indicates the result was subject to Matrix Interference |
| **TNTC** | Indicates the result was Too Numerous To Count |
| **SUBC** | Indicates the analysis was Sub-Contracted |
| **FLD** | Indicates the analysis was performed in the Field |
| **PQL** | Practical Quantitation Limit |
| **MDL** | Method Detection Limit |
| **RDL** | Reporting Detection Limit |
| **00:00** | Reported as a time equivalent to 12:00 AM |

**Reporting Flags Utilized in this Report**

| | |
|---|---|
| **J** | Indicates the result is between the MDL and RDL |
| **U** | Indicates the compound was analyzed for but not detected |
| **B** | Indicates the analyte was detected in the associated Method Blank |

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

_____

Authorized Signature
**GCAL REPORT** 214083017

# Report Sample Summary

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301701 | WD-1 AT 5 | Solid | 08/28/2014 14:00 | 08/30/2014 09:30 |
| 21408301702 | WD-1 AT 20 | Solid | 08/28/2014 14:00 | 08/30/2014 09:30 |
| 21408301703 | WD-2 AT 10 | Solid | 08/28/2014 14:59 | 08/30/2014 09:30 |
| 21408301704 | WD-2 AT 20 | Solid | 08/28/2014 14:59 | 08/30/2014 09:30 |
| 21408301705 | WD-3 AT 5 | Solid | 08/28/2014 12:00 | 08/30/2014 09:30 |
| 21408301706 | WD-3 AT 20 | Solid | 08/28/2014 12:00 | 08/30/2014 09:30 |
| 21408301707 | WD-4 AT 10 | Solid | 08/28/2014 16:17 | 08/30/2014 09:30 |
| 21408301708 | WD-4 AT 20 | Solid | 08/28/2014 16:17 | 08/30/2014 09:30 |
| 21408301709 | WD-5 AT 5 | Solid | 08/28/2014 15:45 | 08/30/2014 09:30 |
| 21408301710 | WD-5 AT 30 | Solid | 08/28/2014 15:45 | 08/30/2014 09:30 |
| 21408301711 | WD-6 AT 5 | Solid | 08/28/2014 10:15 | 08/30/2014 09:30 |
| 21408301712 | WD-6 AT 30 | Solid | 08/28/2014 10:15 | 08/30/2014 09:30 |
| 21408301713 | WD-7 AT 5 | Solid | 08/28/2014 11:00 | 08/30/2014 09:30 |
| 21408301714 | WD-7 AT 20 | Solid | 08/28/2014 11:00 | 08/30/2014 09:30 |
| 21408301715 | TRIP BLANK | Water | 08/28/2014 00:00 | 08/30/2014 09:30 |

# Summary of Compounds Detected

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301701 | **WD-1 AT 5** | Solid | 08/28/2014 14:00 | 08/30/2014 09:30 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 7.90 | 0.301 | | mg/kg |
| 79-01-6 | Trichloroethene | 1.40 | 0.151 | | mg/kg |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 4.89 | 1.51 | | mg/kg |
| 156-59-2 | cis-1,2-Dichloroethene | 3.46 | 1.51 | | mg/kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301702 | **WD-1 AT 20** | Solid | 08/28/2014 14:00 | 08/30/2014 09:30 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.425 | 0.247 | | mg/kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301703 | **WD-2 AT 10** | Solid | 08/28/2014 14:59 | 08/30/2014 09:30 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1670 | 336 | | mg/kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301704 | **WD-2 AT 20** | Solid | 08/28/2014 14:59 | 08/30/2014 09:30 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 0.745 | 0.440 | | mg/kg |
| 127-18-4 | Tetrachloroethene | 7.87 | 0.220 | | mg/kg |
| 79-01-6 | Trichloroethene | 0.727 | 0.220 | | mg/kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.729 | 0.220 | | mg/kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301705 | **WD-3 AT 5** | Solid | 08/28/2014 12:00 | 08/30/2014 09:30 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1.04 | 0.187 | | mg/kg |
| 79-01-6 | Trichloroethene | 0.274 | 0.187 | | mg/kg |

# Summary of Compounds Detected (con't)

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301705 | **WD-3 AT 5** | Solid | 08/28/2014 12:00 | 08/30/2014 09:30 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 156-59-2 | cis-1,2-Dichloroethene | 0.281 | 0.187 | | mg/kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301706 | **WD-3 AT 20** | Solid | 08/28/2014 12:00 | 08/30/2014 09:30 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.484 | 0.180 | | mg/kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301707 | **WD-4 AT 10** | Solid | 08/28/2014 16:17 | 08/30/2014 09:30 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 2190 | 465 | | mg/kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301708 | **WD-4 AT 20** | Solid | 08/28/2014 16:17 | 08/30/2014 09:30 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.360 | 0.302 | | mg/kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301709 | **WD-5 AT 5** | Solid | 08/28/2014 15:45 | 08/30/2014 09:30 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 4.78 | 0.825 | | mg/kg |
| 79-01-6 | Trichloroethene | 1.67 | 0.412 | | mg/kg |
| 156-59-2 | cis-1,2-Dichloroethene | 4.74 | 0.412 | | mg/kg |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 75.5 | 2.06 | | mg/kg |

# Summary of Compounds Detected (con't)

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301710 | **WD-5 AT 30** | Solid | 08/28/2014 15:45 | 08/30/2014 09:30 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 0.357 | 0.270 | | mg/kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301711 | **WD-6 AT 5** | Solid | 08/28/2014 10:15 | 08/30/2014 09:30 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 7.42 | 0.269 | | mg/kg |
| 79-01-6 | Trichloroethene | 0.235 | 0.134 | | mg/kg |
| 75-01-4 | Vinyl chloride | 0.211 | 0.134 | | mg/kg |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 156-59-2 | cis-1,2-Dichloroethene | 7.26 | 0.704 | | mg/kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301712 | **WD-6 AT 30** | Solid | 08/28/2014 10:15 | 08/30/2014 09:30 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 0.035 | 0.00647 | | mg/kg |
| 127-18-4 | Tetrachloroethene | 0.025 | 0.00324 | | mg/kg |
| 79-01-6 | Trichloroethene | 0.00705 | 0.00324 | | mg/kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.035 | 0.00324 | | mg/kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301713 | **WD-7 AT 5** | Solid | 08/28/2014 11:00 | 08/30/2014 09:30 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 12.5 | 0.534 | | mg/kg |
| 75-01-4 | Vinyl chloride | 1.92 | 0.267 | | mg/kg |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 156-59-2 | cis-1,2-Dichloroethene | 10.3 | 1.07 | | mg/kg |

# Summary of Compounds Detected (con't)

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301714 | **WD-7 AT 20** | Solid | 08/28/2014 11:00 | 08/30/2014 09:30 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 0.219 | 0.00993 | | mg/kg |
| 127-18-4 | Tetrachloroethene | 0.321 | 0.00497 | | mg/kg |
| 79-01-6 | Trichloroethene | 0.065 | 0.00497 | | mg/kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.216 | 0.00497 | | mg/kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301715 | **TRIP BLANK** | Water | 08/28/2014 00:00 | 08/30/2014 09:30 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 5.49 | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301701 | **WD-1 AT 5** | Solid | 08/28/2014 14:00 | 08/30/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 500 | 09/05/2014 11:20 | ALC | 540427 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **4.89** | **1.51** | | **mg/kg** |
| **156-59-2** | **cis-1,2-Dichloroethene** | **3.46** | **1.51** | | **mg/kg** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 12.6 | 12.6 | mg/kg | 100 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 12.6 | 12.5 | mg/kg | 99 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 12.6 | 12.9 | mg/kg | 102 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 12.6 | 12.1 | mg/kg | 96 | 62 - 125 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 09/08/2014 20:37 | LBH | 540605 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.151 | | mg/kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.151 | | mg/kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.151 | | mg/kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.151 | | mg/kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.151 | | mg/kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.151 | | mg/kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.151 | | mg/kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.151 | | mg/kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.151 | | mg/kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.151 | | mg/kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.151 | | mg/kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.151 | | mg/kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.151 | | mg/kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.151 | | mg/kg |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **7.90** | **0.301** | | **mg/kg** |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.151 | | mg/kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.151 | | mg/kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.151 | | mg/kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.151 | | mg/kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.151 | | mg/kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.151 | | mg/kg |
| 78-93-3 | 2-Butanone | ND | 0.151 | | mg/kg |
| 95-49-8 | 2-Chlorotoluene | ND | 0.151 | | mg/kg |
| 591-78-6 | 2-Hexanone | ND | 0.151 | | mg/kg |
| 106-43-4 | 4-Chlorotoluene | ND | 0.151 | | mg/kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 0.151 | | mg/kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.151 | | mg/kg |
| 67-64-1 | Acetone | ND | 0.753 | | mg/kg |
| 71-43-2 | Benzene | ND | 0.151 | | mg/kg |
| 108-86-1 | Bromobenzene | ND | 0.151 | | mg/kg |
| 74-97-5 | Bromochloromethane | ND | 0.151 | | mg/kg |
| 75-27-4 | Bromodichloromethane | ND | 0.151 | | mg/kg |
| 75-25-2 | Bromoform | ND | 0.151 | | mg/kg |
| 74-83-9 | Bromomethane | ND | 0.151 | | mg/kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301701 | **WD-1 AT 5** | Solid | 08/28/2014 14:00 | 08/30/2014 09:30 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 09/08/2014 20:37 | LBH | 540605 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 75-15-0 | Carbon disulfide | ND | 0.151 | | mg/kg |
| 56-23-5 | Carbon tetrachloride | ND | 0.151 | | mg/kg |
| 108-90-7 | Chlorobenzene | ND | 0.151 | | mg/kg |
| 75-00-3 | Chloroethane | ND | 0.151 | | mg/kg |
| 67-66-3 | Chloroform | ND | 0.151 | | mg/kg |
| 74-87-3 | Chloromethane | ND | 0.151 | | mg/kg |
| 124-48-1 | Dibromochloromethane | ND | 0.151 | | mg/kg |
| 74-95-3 | Dibromomethane | ND | 0.151 | | mg/kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.151 | | mg/kg |
| 100-41-4 | Ethylbenzene | ND | 0.151 | | mg/kg |
| 87-68-3 | Hexachlorobutadiene | ND | 0.151 | | mg/kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 0.151 | | mg/kg |
| 74-88-4 | Methyl iodide | ND | 0.151 | | mg/kg |
| 75-09-2 | Methylene chloride | ND | 0.301 | | mg/kg |
| 91-20-3 | Naphthalene | ND | 0.151 | | mg/kg |
| 100-42-5 | Styrene | ND | 0.151 | | mg/kg |
| 108-88-3 | Toluene | ND | 0.151 | | mg/kg |
| **79-01-6** | **Trichloroethene** | **1.40** | **0.151** | | **mg/kg** |
| 75-69-4 | Trichlorofluoromethane | ND | 0.151 | | mg/kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.151 | | mg/kg |
| 75-01-4 | Vinyl chloride | ND | 0.151 | | mg/kg |
| 1330-20-7 | Xylene (total) | ND | 0.301 | | mg/kg |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.151 | | mg/kg |
| 136777-61-2 | m,p-Xylene | ND | 0.151 | | mg/kg |
| 104-51-8 | n-Butylbenzene | ND | 0.151 | | mg/kg |
| 103-65-1 | n-Propylbenzene | ND | 0.151 | | mg/kg |
| 95-47-6 | o-Xylene | ND | 0.151 | | mg/kg |
| 135-98-8 | sec-Butylbenzene | ND | 0.151 | | mg/kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 0.151 | | mg/kg |
| 98-06-6 | tert-Butylbenzene | ND | 0.151 | | mg/kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.151 | | mg/kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.151 | | mg/kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 0.151 | | mg/kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 1.26 | 1.21 | mg/kg | 96 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 1.26 | 1.21 | mg/kg | 96 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 1.26 | 1.31 | mg/kg | 104 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 1.26 | 1.3 | mg/kg | 103 | 62 - 125 |

RESULTS REPORTED ON A DRY WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301702 | **WD-1 AT 20** | Solid | 08/28/2014 14:00 | 08/30/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 09/05/2014 11:41 | ALC | 540427 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.247 | | mg/kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.247 | | mg/kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.247 | | mg/kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.247 | | mg/kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.247 | | mg/kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.247 | | mg/kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.247 | | mg/kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.247 | | mg/kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.247 | | mg/kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.247 | | mg/kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.247 | | mg/kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.247 | | mg/kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.247 | | mg/kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.247 | | mg/kg |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 0.493 | | mg/kg |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.247 | | mg/kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.247 | | mg/kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.247 | | mg/kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.247 | | mg/kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.247 | | mg/kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.247 | | mg/kg |
| 78-93-3 | 2-Butanone | ND | 0.247 | | mg/kg |
| 95-49-8 | 2-Chlorotoluene | ND | 0.247 | | mg/kg |
| 591-78-6 | 2-Hexanone | ND | 0.247 | | mg/kg |
| 106-43-4 | 4-Chlorotoluene | ND | 0.247 | | mg/kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 0.247 | | mg/kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.247 | | mg/kg |
| 67-64-1 | Acetone | ND | 1.23 | | mg/kg |
| 71-43-2 | Benzene | ND | 0.247 | | mg/kg |
| 108-86-1 | Bromobenzene | ND | 0.247 | | mg/kg |
| 74-97-5 | Bromochloromethane | ND | 0.247 | | mg/kg |
| 75-27-4 | Bromodichloromethane | ND | 0.247 | | mg/kg |
| 75-25-2 | Bromoform | ND | 0.247 | | mg/kg |
| 74-83-9 | Bromomethane | ND | 0.247 | | mg/kg |
| 75-15-0 | Carbon disulfide | ND | 0.247 | | mg/kg |
| 56-23-5 | Carbon tetrachloride | ND | 0.247 | | mg/kg |
| 108-90-7 | Chlorobenzene | ND | 0.247 | | mg/kg |
| 75-00-3 | Chloroethane | ND | 0.247 | | mg/kg |
| 67-66-3 | Chloroform | ND | 0.247 | | mg/kg |
| 74-87-3 | Chloromethane | ND | 0.247 | | mg/kg |
| 124-48-1 | Dibromochloromethane | ND | 0.247 | | mg/kg |
| 74-95-3 | Dibromomethane | ND | 0.247 | | mg/kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.247 | | mg/kg |
| 100-41-4 | Ethylbenzene | ND | 0.247 | | mg/kg |
| 87-68-3 | Hexachlorobutadiene | ND | 0.247 | | mg/kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 0.247 | | mg/kg |
| 74-88-4 | Methyl iodide | ND | 0.247 | | mg/kg |
| 75-09-2 | Methylene chloride | ND | 0.493 | | mg/kg |
| 91-20-3 | Naphthalene | ND | 0.247 | | mg/kg |
| 100-42-5 | Styrene | ND | 0.247 | | mg/kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301702 | **WD-1 AT 20** | Solid | 08/28/2014 14:00 | 08/30/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 09/05/2014 11:41 | ALC | 540427 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **0.425** | **0.247** | | **mg/kg** |
| 108-88-3 | Toluene | ND | 0.247 | | mg/kg |
| 79-01-6 | Trichloroethene | ND | 0.247 | | mg/kg |
| 75-69-4 | Trichlorofluoromethane | ND | 0.247 | | mg/kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.247 | | mg/kg |
| 75-01-4 | Vinyl chloride | ND | 0.247 | | mg/kg |
| 1330-20-7 | Xylene (total) | ND | 0.493 | | mg/kg |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.247 | | mg/kg |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.247 | | mg/kg |
| 136777-61-2 | m,p-Xylene | ND | 0.247 | | mg/kg |
| 104-51-8 | n-Butylbenzene | ND | 0.247 | | mg/kg |
| 103-65-1 | n-Propylbenzene | ND | 0.247 | | mg/kg |
| 95-47-6 | o-Xylene | ND | 0.247 | | mg/kg |
| 135-98-8 | sec-Butylbenzene | ND | 0.247 | | mg/kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 0.247 | | mg/kg |
| 98-06-6 | tert-Butylbenzene | ND | 0.247 | | mg/kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.247 | | mg/kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.247 | | mg/kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 0.247 | | mg/kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 1.93 | 1.98 | mg/kg | 102 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 1.93 | 1.86 | mg/kg | 96 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 1.93 | 2 | mg/kg | 104 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 1.93 | 1.88 | mg/kg | 97 | 62 - 125 |

RESULTS REPORTED ON A DRY WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301703 | **WD-2 AT 10** | Solid | 08/28/2014 14:59 | 08/30/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 100000 | 09/05/2014 13:19 | ALC | 540427 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **1670** | **336** | | **mg/kg** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 2910 | 2850 | mg/kg | 98 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 2910 | 2820 | mg/kg | 97 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 2910 | 3020 | mg/kg | 104 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 2910 | 2830 | mg/kg | 97 | 62 - 125 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 10000 | 09/05/2014 17:32 | ALC | 540427 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 33.6 | | mg/kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 33.6 | | mg/kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 33.6 | | mg/kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 33.6 | | mg/kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 33.6 | | mg/kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 33.6 | | mg/kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 33.6 | | mg/kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 33.6 | | mg/kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 33.6 | | mg/kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 33.6 | | mg/kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 33.6 | | mg/kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 33.6 | | mg/kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 33.6 | | mg/kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 33.6 | | mg/kg |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 67.2 | | mg/kg |
| 78-87-5 | 1,2-Dichloropropane | ND | 33.6 | | mg/kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 33.6 | | mg/kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 33.6 | | mg/kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 33.6 | | mg/kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 33.6 | | mg/kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 33.6 | | mg/kg |
| 78-93-3 | 2-Butanone | ND | 33.6 | | mg/kg |
| 95-49-8 | 2-Chlorotoluene | ND | 33.6 | | mg/kg |
| 591-78-6 | 2-Hexanone | ND | 33.6 | | mg/kg |
| 106-43-4 | 4-Chlorotoluene | ND | 33.6 | | mg/kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 33.6 | | mg/kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 33.6 | | mg/kg |
| 67-64-1 | Acetone | ND | 168 | | mg/kg |
| 71-43-2 | Benzene | ND | 33.6 | | mg/kg |
| 108-86-1 | Bromobenzene | ND | 33.6 | | mg/kg |
| 74-97-5 | Bromochloromethane | ND | 33.6 | | mg/kg |
| 75-27-4 | Bromodichloromethane | ND | 33.6 | | mg/kg |
| 75-25-2 | Bromoform | ND | 33.6 | | mg/kg |
| 74-83-9 | Bromomethane | ND | 33.6 | | mg/kg |
| 75-15-0 | Carbon disulfide | ND | 33.6 | | mg/kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301703 | **WD-2 AT 10** | Solid | 08/28/2014 14:59 | 08/30/2014 09:30 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 10000 | 09/05/2014 17:32 | ALC | 540427 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | ND | 33.6 | | mg/kg |
| 108-90-7 | Chlorobenzene | ND | 33.6 | | mg/kg |
| 75-00-3 | Chloroethane | ND | 33.6 | | mg/kg |
| 67-66-3 | Chloroform | ND | 33.6 | | mg/kg |
| 74-87-3 | Chloromethane | ND | 33.6 | | mg/kg |
| 124-48-1 | Dibromochloromethane | ND | 33.6 | | mg/kg |
| 74-95-3 | Dibromomethane | ND | 33.6 | | mg/kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 33.6 | | mg/kg |
| 100-41-4 | Ethylbenzene | ND | 33.6 | | mg/kg |
| 87-68-3 | Hexachlorobutadiene | ND | 33.6 | | mg/kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 33.6 | | mg/kg |
| 74-88-4 | Methyl iodide | ND | 33.6 | | mg/kg |
| 75-09-2 | Methylene chloride | ND | 67.2 | | mg/kg |
| 91-20-3 | Naphthalene | ND | 33.6 | | mg/kg |
| 100-42-5 | Styrene | ND | 33.6 | | mg/kg |
| 108-88-3 | Toluene | ND | 33.6 | | mg/kg |
| 79-01-6 | Trichloroethene | ND | 33.6 | | mg/kg |
| 75-69-4 | Trichlorofluoromethane | ND | 33.6 | | mg/kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 33.6 | | mg/kg |
| 75-01-4 | Vinyl chloride | ND | 33.6 | | mg/kg |
| 1330-20-7 | Xylene (total) | ND | 67.2 | | mg/kg |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 33.6 | | mg/kg |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 33.6 | | mg/kg |
| 136777-61-2 | m,p-Xylene | ND | 33.6 | | mg/kg |
| 104-51-8 | n-Butylbenzene | ND | 33.6 | | mg/kg |
| 103-65-1 | n-Propylbenzene | ND | 33.6 | | mg/kg |
| 95-47-6 | o-Xylene | ND | 33.6 | | mg/kg |
| 135-98-8 | sec-Butylbenzene | ND | 33.6 | | mg/kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 33.6 | | mg/kg |
| 98-06-6 | tert-Butylbenzene | ND | 33.6 | | mg/kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 33.6 | | mg/kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 33.6 | | mg/kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 33.6 | | mg/kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 291 | 290 | mg/kg | 100 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 291 | 278 | mg/kg | 96 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 291 | 293 | mg/kg | 101 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 291 | 281 | mg/kg | 97 | 62 - 125 |

RESULTS REPORTED ON A DRY WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301704 | **WD-2 AT 20** | Solid | 08/28/2014 14:59 | 08/30/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 09/05/2014 16:50 | ALC | 540427 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.220 | | mg/kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.220 | | mg/kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.220 | | mg/kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.220 | | mg/kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.220 | | mg/kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.220 | | mg/kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.220 | | mg/kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.220 | | mg/kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.220 | | mg/kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.220 | | mg/kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.220 | | mg/kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.220 | | mg/kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.220 | | mg/kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.220 | | mg/kg |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **0.745** | **0.440** | | **mg/kg** |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.220 | | mg/kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.220 | | mg/kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.220 | | mg/kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.220 | | mg/kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.220 | | mg/kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.220 | | mg/kg |
| 78-93-3 | 2-Butanone | ND | 0.220 | | mg/kg |
| 95-49-8 | 2-Chlorotoluene | ND | 0.220 | | mg/kg |
| 591-78-6 | 2-Hexanone | ND | 0.220 | | mg/kg |
| 106-43-4 | 4-Chlorotoluene | ND | 0.220 | | mg/kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 0.220 | | mg/kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.220 | | mg/kg |
| 67-64-1 | Acetone | ND | 1.10 | | mg/kg |
| 71-43-2 | Benzene | ND | 0.220 | | mg/kg |
| 108-86-1 | Bromobenzene | ND | 0.220 | | mg/kg |
| 74-97-5 | Bromochloromethane | ND | 0.220 | | mg/kg |
| 75-27-4 | Bromodichloromethane | ND | 0.220 | | mg/kg |
| 75-25-2 | Bromoform | ND | 0.220 | | mg/kg |
| 74-83-9 | Bromomethane | ND | 0.220 | | mg/kg |
| 75-15-0 | Carbon disulfide | ND | 0.220 | | mg/kg |
| 56-23-5 | Carbon tetrachloride | ND | 0.220 | | mg/kg |
| 108-90-7 | Chlorobenzene | ND | 0.220 | | mg/kg |
| 75-00-3 | Chloroethane | ND | 0.220 | | mg/kg |
| 67-66-3 | Chloroform | ND | 0.220 | | mg/kg |
| 74-87-3 | Chloromethane | ND | 0.220 | | mg/kg |
| 124-48-1 | Dibromochloromethane | ND | 0.220 | | mg/kg |
| 74-95-3 | Dibromomethane | ND | 0.220 | | mg/kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.220 | | mg/kg |
| 100-41-4 | Ethylbenzene | ND | 0.220 | | mg/kg |
| 87-68-3 | Hexachlorobutadiene | ND | 0.220 | | mg/kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 0.220 | | mg/kg |
| 74-88-4 | Methyl iodide | ND | 0.220 | | mg/kg |
| 75-09-2 | Methylene chloride | ND | 0.440 | | mg/kg |
| 91-20-3 | Naphthalene | ND | 0.220 | | mg/kg |
| 100-42-5 | Styrene | ND | 0.220 | | mg/kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301704 | **WD-2 AT 20** | Solid | 08/28/2014 14:59 | 08/30/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 09/05/2014 16:50 | ALC | 540427 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **7.87** | **0.220** | | **mg/kg** |
| 108-88-3 | Toluene | ND | 0.220 | | mg/kg |
| **79-01-6** | **Trichloroethene** | **0.727** | **0.220** | | **mg/kg** |
| 75-69-4 | Trichlorofluoromethane | ND | 0.220 | | mg/kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.220 | | mg/kg |
| 75-01-4 | Vinyl chloride | ND | 0.220 | | mg/kg |
| 1330-20-7 | Xylene (total) | ND | 0.440 | | mg/kg |
| **156-59-2** | **cis-1,2-Dichloroethene** | **0.729** | **0.220** | | **mg/kg** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.220 | | mg/kg |
| 136777-61-2 | m,p-Xylene | ND | 0.220 | | mg/kg |
| 104-51-8 | n-Butylbenzene | ND | 0.220 | | mg/kg |
| 103-65-1 | n-Propylbenzene | ND | 0.220 | | mg/kg |
| 95-47-6 | o-Xylene | ND | 0.220 | | mg/kg |
| 135-98-8 | sec-Butylbenzene | ND | 0.220 | | mg/kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 0.220 | | mg/kg |
| 98-06-6 | tert-Butylbenzene | ND | 0.220 | | mg/kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.220 | | mg/kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.220 | | mg/kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 0.220 | | mg/kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 1.65 | 1.66 | mg/kg | 101 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 1.65 | 1.57 | mg/kg | 95 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 1.65 | 1.73 | mg/kg | 105 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 1.65 | 1.62 | mg/kg | 98 | 62 - 125 |

RESULTS REPORTED ON A DRY WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301705 | **WD-3 AT 5** | Solid | 08/28/2014 12:00 | 08/30/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 09/05/2014 12:02 | ALC | 540427 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.187 | | mg/kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.187 | | mg/kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.187 | | mg/kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.187 | | mg/kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.187 | | mg/kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.187 | | mg/kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.187 | | mg/kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.187 | | mg/kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.187 | | mg/kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.187 | | mg/kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.187 | | mg/kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.187 | | mg/kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.187 | | mg/kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.187 | | mg/kg |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 0.374 | | mg/kg |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.187 | | mg/kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.187 | | mg/kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.187 | | mg/kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.187 | | mg/kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.187 | | mg/kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.187 | | mg/kg |
| 78-93-3 | 2-Butanone | ND | 0.187 | | mg/kg |
| 95-49-8 | 2-Chlorotoluene | ND | 0.187 | | mg/kg |
| 591-78-6 | 2-Hexanone | ND | 0.187 | | mg/kg |
| 106-43-4 | 4-Chlorotoluene | ND | 0.187 | | mg/kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 0.187 | | mg/kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.187 | | mg/kg |
| 67-64-1 | Acetone | ND | 0.936 | | mg/kg |
| 71-43-2 | Benzene | ND | 0.187 | | mg/kg |
| 108-86-1 | Bromobenzene | ND | 0.187 | | mg/kg |
| 74-97-5 | Bromochloromethane | ND | 0.187 | | mg/kg |
| 75-27-4 | Bromodichloromethane | ND | 0.187 | | mg/kg |
| 75-25-2 | Bromoform | ND | 0.187 | | mg/kg |
| 74-83-9 | Bromomethane | ND | 0.187 | | mg/kg |
| 75-15-0 | Carbon disulfide | ND | 0.187 | | mg/kg |
| 56-23-5 | Carbon tetrachloride | ND | 0.187 | | mg/kg |
| 108-90-7 | Chlorobenzene | ND | 0.187 | | mg/kg |
| 75-00-3 | Chloroethane | ND | 0.187 | | mg/kg |
| 67-66-3 | Chloroform | ND | 0.187 | | mg/kg |
| 74-87-3 | Chloromethane | ND | 0.187 | | mg/kg |
| 124-48-1 | Dibromochloromethane | ND | 0.187 | | mg/kg |
| 74-95-3 | Dibromomethane | ND | 0.187 | | mg/kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.187 | | mg/kg |
| 100-41-4 | Ethylbenzene | ND | 0.187 | | mg/kg |
| 87-68-3 | Hexachlorobutadiene | ND | 0.187 | | mg/kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 0.187 | | mg/kg |
| 74-88-4 | Methyl iodide | ND | 0.187 | | mg/kg |
| 75-09-2 | Methylene chloride | ND | 0.374 | | mg/kg |
| 91-20-3 | Naphthalene | ND | 0.187 | | mg/kg |
| 100-42-5 | Styrene | ND | 0.187 | | mg/kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301705 | **WD-3 AT 5** | Solid | 08/28/2014 12:00 | 08/30/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 09/05/2014 12:02 | ALC | 540427 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **1.04** | **0.187** | | **mg/kg** |
| 108-88-3 | Toluene | ND | 0.187 | | mg/kg |
| **79-01-6** | **Trichloroethene** | **0.274** | **0.187** | | **mg/kg** |
| 75-69-4 | Trichlorofluoromethane | ND | 0.187 | | mg/kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.187 | | mg/kg |
| 75-01-4 | Vinyl chloride | ND | 0.187 | | mg/kg |
| 1330-20-7 | Xylene (total) | ND | 0.374 | | mg/kg |
| **156-59-2** | **cis-1,2-Dichloroethene** | **0.281** | **0.187** | | **mg/kg** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.187 | | mg/kg |
| 136777-61-2 | m,p-Xylene | ND | 0.187 | | mg/kg |
| 104-51-8 | n-Butylbenzene | ND | 0.187 | | mg/kg |
| 103-65-1 | n-Propylbenzene | ND | 0.187 | | mg/kg |
| 95-47-6 | o-Xylene | ND | 0.187 | | mg/kg |
| 135-98-8 | sec-Butylbenzene | ND | 0.187 | | mg/kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 0.187 | | mg/kg |
| 98-06-6 | tert-Butylbenzene | ND | 0.187 | | mg/kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.187 | | mg/kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.187 | | mg/kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 0.187 | | mg/kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 1.59 | 1.56 | mg/kg | 98 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 1.59 | 1.53 | mg/kg | 96 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 1.59 | 1.66 | mg/kg | 104 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 1.59 | 1.51 | mg/kg | 95 | 62 - 125 |

RESULTS REPORTED ON A DRY WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301706 | **WD-3 AT 20** | Solid | 08/28/2014 12:00 | 08/30/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 09/05/2014 15:26 | ALC | 540427 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.180 | | mg/kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.180 | | mg/kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.180 | | mg/kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.180 | | mg/kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.180 | | mg/kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.180 | | mg/kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.180 | | mg/kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.180 | | mg/kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.180 | | mg/kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.180 | | mg/kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.180 | | mg/kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.180 | | mg/kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.180 | | mg/kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.180 | | mg/kg |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 0.360 | | mg/kg |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.180 | | mg/kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.180 | | mg/kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.180 | | mg/kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.180 | | mg/kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.180 | | mg/kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.180 | | mg/kg |
| 78-93-3 | 2-Butanone | ND | 0.180 | | mg/kg |
| 95-49-8 | 2-Chlorotoluene | ND | 0.180 | | mg/kg |
| 591-78-6 | 2-Hexanone | ND | 0.180 | | mg/kg |
| 106-43-4 | 4-Chlorotoluene | ND | 0.180 | | mg/kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 0.180 | | mg/kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.180 | | mg/kg |
| 67-64-1 | Acetone | ND | 0.900 | | mg/kg |
| 71-43-2 | Benzene | ND | 0.180 | | mg/kg |
| 108-86-1 | Bromobenzene | ND | 0.180 | | mg/kg |
| 74-97-5 | Bromochloromethane | ND | 0.180 | | mg/kg |
| 75-27-4 | Bromodichloromethane | ND | 0.180 | | mg/kg |
| 75-25-2 | Bromoform | ND | 0.180 | | mg/kg |
| 74-83-9 | Bromomethane | ND | 0.180 | | mg/kg |
| 75-15-0 | Carbon disulfide | ND | 0.180 | | mg/kg |
| 56-23-5 | Carbon tetrachloride | ND | 0.180 | | mg/kg |
| 108-90-7 | Chlorobenzene | ND | 0.180 | | mg/kg |
| 75-00-3 | Chloroethane | ND | 0.180 | | mg/kg |
| 67-66-3 | Chloroform | ND | 0.180 | | mg/kg |
| 74-87-3 | Chloromethane | ND | 0.180 | | mg/kg |
| 124-48-1 | Dibromochloromethane | ND | 0.180 | | mg/kg |
| 74-95-3 | Dibromomethane | ND | 0.180 | | mg/kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.180 | | mg/kg |
| 100-41-4 | Ethylbenzene | ND | 0.180 | | mg/kg |
| 87-68-3 | Hexachlorobutadiene | ND | 0.180 | | mg/kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 0.180 | | mg/kg |
| 74-88-4 | Methyl iodide | ND | 0.180 | | mg/kg |
| 75-09-2 | Methylene chloride | ND | 0.360 | | mg/kg |
| 91-20-3 | Naphthalene | ND | 0.180 | | mg/kg |
| 100-42-5 | Styrene | ND | 0.180 | | mg/kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301706 | **WD-3 AT 20** | Solid | 08/28/2014 12:00 | 08/30/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 09/05/2014 15:26 | ALC | 540427 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **0.484** | **0.180** | | **mg/kg** |
| 108-88-3 | Toluene | ND | 0.180 | | mg/kg |
| 79-01-6 | Trichloroethene | ND | 0.180 | | mg/kg |
| 75-69-4 | Trichlorofluoromethane | ND | 0.180 | | mg/kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.180 | | mg/kg |
| 75-01-4 | Vinyl chloride | ND | 0.180 | | mg/kg |
| 1330-20-7 | Xylene (total) | ND | 0.360 | | mg/kg |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.180 | | mg/kg |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.180 | | mg/kg |
| 136777-61-2 | m,p-Xylene | ND | 0.180 | | mg/kg |
| 104-51-8 | n-Butylbenzene | ND | 0.180 | | mg/kg |
| 103-65-1 | n-Propylbenzene | ND | 0.180 | | mg/kg |
| 95-47-6 | o-Xylene | ND | 0.180 | | mg/kg |
| 135-98-8 | sec-Butylbenzene | ND | 0.180 | | mg/kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 0.180 | | mg/kg |
| 98-06-6 | tert-Butylbenzene | ND | 0.180 | | mg/kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.180 | | mg/kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.180 | | mg/kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 0.180 | | mg/kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 1.61 | 1.63 | mg/kg | 101 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 1.61 | 1.56 | mg/kg | 97 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 1.61 | 1.74 | mg/kg | 108 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 1.61 | 1.55 | mg/kg | 96 | 62 - 125 |

RESULTS REPORTED ON A DRY WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301707 | **WD-4 AT 10** | Solid | 08/28/2014 16:17 | 08/30/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 100000 | 09/05/2014 14:01 | ALC | 540427 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **2190** | **465** | | **mg/kg** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 3950 | 3860 | mg/kg | 98 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 3950 | 3900 | mg/kg | 99 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 3950 | 4010 | mg/kg | 102 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 3950 | 3820 | mg/kg | 97 | 62 - 125 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 10000 | 09/05/2014 17:11 | ALC | 540427 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 46.5 | | mg/kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 46.5 | | mg/kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 46.5 | | mg/kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 46.5 | | mg/kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 46.5 | | mg/kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 46.5 | | mg/kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 46.5 | | mg/kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 46.5 | | mg/kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 46.5 | | mg/kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 46.5 | | mg/kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 46.5 | | mg/kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 46.5 | | mg/kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 46.5 | | mg/kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 46.5 | | mg/kg |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 93.0 | | mg/kg |
| 78-87-5 | 1,2-Dichloropropane | ND | 46.5 | | mg/kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 46.5 | | mg/kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 46.5 | | mg/kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 46.5 | | mg/kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 46.5 | | mg/kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 46.5 | | mg/kg |
| 78-93-3 | 2-Butanone | ND | 46.5 | | mg/kg |
| 95-49-8 | 2-Chlorotoluene | ND | 46.5 | | mg/kg |
| 591-78-6 | 2-Hexanone | ND | 46.5 | | mg/kg |
| 106-43-4 | 4-Chlorotoluene | ND | 46.5 | | mg/kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 46.5 | | mg/kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 46.5 | | mg/kg |
| 67-64-1 | Acetone | ND | 232 | | mg/kg |
| 71-43-2 | Benzene | ND | 46.5 | | mg/kg |
| 108-86-1 | Bromobenzene | ND | 46.5 | | mg/kg |
| 74-97-5 | Bromochloromethane | ND | 46.5 | | mg/kg |
| 75-27-4 | Bromodichloromethane | ND | 46.5 | | mg/kg |
| 75-25-2 | Bromoform | ND | 46.5 | | mg/kg |
| 74-83-9 | Bromomethane | ND | 46.5 | | mg/kg |
| 75-15-0 | Carbon disulfide | ND | 46.5 | | mg/kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301707 | **WD-4 AT 10** | Solid | 08/28/2014 16:17 | 08/30/2014 09:30 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 10000 | 09/05/2014 17:11 | ALC | 540427 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | ND | 46.5 | | mg/kg |
| 108-90-7 | Chlorobenzene | ND | 46.5 | | mg/kg |
| 75-00-3 | Chloroethane | ND | 46.5 | | mg/kg |
| 67-66-3 | Chloroform | ND | 46.5 | | mg/kg |
| 74-87-3 | Chloromethane | ND | 46.5 | | mg/kg |
| 124-48-1 | Dibromochloromethane | ND | 46.5 | | mg/kg |
| 74-95-3 | Dibromomethane | ND | 46.5 | | mg/kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 46.5 | | mg/kg |
| 100-41-4 | Ethylbenzene | ND | 46.5 | | mg/kg |
| 87-68-3 | Hexachlorobutadiene | ND | 46.5 | | mg/kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 46.5 | | mg/kg |
| 74-88-4 | Methyl iodide | ND | 46.5 | | mg/kg |
| 75-09-2 | Methylene chloride | ND | 93.0 | | mg/kg |
| 91-20-3 | Naphthalene | ND | 46.5 | | mg/kg |
| 100-42-5 | Styrene | ND | 46.5 | | mg/kg |
| 108-88-3 | Toluene | ND | 46.5 | | mg/kg |
| 79-01-6 | Trichloroethene | ND | 46.5 | | mg/kg |
| 75-69-4 | Trichlorofluoromethane | ND | 46.5 | | mg/kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 46.5 | | mg/kg |
| 75-01-4 | Vinyl chloride | ND | 46.5 | | mg/kg |
| 1330-20-7 | Xylene (total) | ND | 93.0 | | mg/kg |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 46.5 | | mg/kg |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 46.5 | | mg/kg |
| 136777-61-2 | m,p-Xylene | ND | 46.5 | | mg/kg |
| 104-51-8 | n-Butylbenzene | ND | 46.5 | | mg/kg |
| 103-65-1 | n-Propylbenzene | ND | 46.5 | | mg/kg |
| 95-47-6 | o-Xylene | ND | 46.5 | | mg/kg |
| 135-98-8 | sec-Butylbenzene | ND | 46.5 | | mg/kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 46.5 | | mg/kg |
| 98-06-6 | tert-Butylbenzene | ND | 46.5 | | mg/kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 46.5 | | mg/kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 46.5 | | mg/kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 46.5 | | mg/kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 395 | 393 | mg/kg | 100 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 395 | 383 | mg/kg | 97 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 395 | 401 | mg/kg | 102 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 395 | 385 | mg/kg | 97 | 62 - 125 |

RESULTS REPORTED ON A DRY WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301708 | **WD-4 AT 20** | Solid | 08/28/2014 16:17 | 08/30/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 09/05/2014 16:08 | ALC | 540427 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.302 | | mg/kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.302 | | mg/kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.302 | | mg/kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.302 | | mg/kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.302 | | mg/kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.302 | | mg/kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.302 | | mg/kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.302 | | mg/kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.302 | | mg/kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.302 | | mg/kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.302 | | mg/kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.302 | | mg/kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.302 | | mg/kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.302 | | mg/kg |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 0.605 | | mg/kg |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.302 | | mg/kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.302 | | mg/kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.302 | | mg/kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.302 | | mg/kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.302 | | mg/kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.302 | | mg/kg |
| 78-93-3 | 2-Butanone | ND | 0.302 | | mg/kg |
| 95-49-8 | 2-Chlorotoluene | ND | 0.302 | | mg/kg |
| 591-78-6 | 2-Hexanone | ND | 0.302 | | mg/kg |
| 106-43-4 | 4-Chlorotoluene | ND | 0.302 | | mg/kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 0.302 | | mg/kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.302 | | mg/kg |
| 67-64-1 | Acetone | ND | 1.51 | | mg/kg |
| 71-43-2 | Benzene | ND | 0.302 | | mg/kg |
| 108-86-1 | Bromobenzene | ND | 0.302 | | mg/kg |
| 74-97-5 | Bromochloromethane | ND | 0.302 | | mg/kg |
| 75-27-4 | Bromodichloromethane | ND | 0.302 | | mg/kg |
| 75-25-2 | Bromoform | ND | 0.302 | | mg/kg |
| 74-83-9 | Bromomethane | ND | 0.302 | | mg/kg |
| 75-15-0 | Carbon disulfide | ND | 0.302 | | mg/kg |
| 56-23-5 | Carbon tetrachloride | ND | 0.302 | | mg/kg |
| 108-90-7 | Chlorobenzene | ND | 0.302 | | mg/kg |
| 75-00-3 | Chloroethane | ND | 0.302 | | mg/kg |
| 67-66-3 | Chloroform | ND | 0.302 | | mg/kg |
| 74-87-3 | Chloromethane | ND | 0.302 | | mg/kg |
| 124-48-1 | Dibromochloromethane | ND | 0.302 | | mg/kg |
| 74-95-3 | Dibromomethane | ND | 0.302 | | mg/kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.302 | | mg/kg |
| 100-41-4 | Ethylbenzene | ND | 0.302 | | mg/kg |
| 87-68-3 | Hexachlorobutadiene | ND | 0.302 | | mg/kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 0.302 | | mg/kg |
| 74-88-4 | Methyl iodide | ND | 0.302 | | mg/kg |
| 75-09-2 | Methylene chloride | ND | 0.605 | | mg/kg |
| 91-20-3 | Naphthalene | ND | 0.302 | | mg/kg |
| 100-42-5 | Styrene | ND | 0.302 | | mg/kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301708 | **WD-4 AT 20** | Solid | 08/28/2014 16:17 | 08/30/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 09/05/2014 16:08 | ALC | 540427 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **0.360** | **0.302** | | **mg/kg** |
| 108-88-3 | Toluene | ND | 0.302 | | mg/kg |
| 79-01-6 | Trichloroethene | ND | 0.302 | | mg/kg |
| 75-69-4 | Trichlorofluoromethane | ND | 0.302 | | mg/kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.302 | | mg/kg |
| 75-01-4 | Vinyl chloride | ND | 0.302 | | mg/kg |
| 1330-20-7 | Xylene (total) | ND | 0.605 | | mg/kg |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.302 | | mg/kg |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.302 | | mg/kg |
| 136777-61-2 | m,p-Xylene | ND | 0.302 | | mg/kg |
| 104-51-8 | n-Butylbenzene | ND | 0.302 | | mg/kg |
| 103-65-1 | n-Propylbenzene | ND | 0.302 | | mg/kg |
| 95-47-6 | o-Xylene | ND | 0.302 | | mg/kg |
| 135-98-8 | sec-Butylbenzene | ND | 0.302 | | mg/kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 0.302 | | mg/kg |
| 98-06-6 | tert-Butylbenzene | ND | 0.302 | | mg/kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.302 | | mg/kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.302 | | mg/kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 0.302 | | mg/kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 2.61 | 2.66 | mg/kg | 102 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 2.61 | 2.49 | mg/kg | 95 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 2.61 | 2.73 | mg/kg | 105 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 2.61 | 2.53 | mg/kg | 97 | 62 - 125 |

RESULTS REPORTED ON A DRY WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301709 | **WD-5 AT 5** | Solid | 08/28/2014 15:45 | 08/30/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 500 | 09/05/2014 14:22 | ALC | 540427 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **75.5** | **2.06** | | **mg/kg** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 17.8 | 17.5 | mg/kg | 99 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 17.8 | 17.8 | mg/kg | 100 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 17.8 | 18.1 | mg/kg | 102 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 17.8 | 17 | mg/kg | 96 | 62 - 125 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 100 | 09/05/2014 17:56 | ALC | 540427 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.412 | | mg/kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.412 | | mg/kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.412 | | mg/kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.412 | | mg/kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.412 | | mg/kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.412 | | mg/kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.412 | | mg/kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.412 | | mg/kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.412 | | mg/kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.412 | | mg/kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.412 | | mg/kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.412 | | mg/kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.412 | | mg/kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.412 | | mg/kg |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **4.78** | **0.825** | | **mg/kg** |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.412 | | mg/kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.412 | | mg/kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.412 | | mg/kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.412 | | mg/kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.412 | | mg/kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.412 | | mg/kg |
| 78-93-3 | 2-Butanone | ND | 0.412 | | mg/kg |
| 95-49-8 | 2-Chlorotoluene | ND | 0.412 | | mg/kg |
| 591-78-6 | 2-Hexanone | ND | 0.412 | | mg/kg |
| 106-43-4 | 4-Chlorotoluene | ND | 0.412 | | mg/kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 0.412 | | mg/kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.412 | | mg/kg |
| 67-64-1 | Acetone | ND | 2.06 | | mg/kg |
| 71-43-2 | Benzene | ND | 0.412 | | mg/kg |
| 108-86-1 | Bromobenzene | ND | 0.412 | | mg/kg |
| 74-97-5 | Bromochloromethane | ND | 0.412 | | mg/kg |
| 75-27-4 | Bromodichloromethane | ND | 0.412 | | mg/kg |
| 75-25-2 | Bromoform | ND | 0.412 | | mg/kg |
| 74-83-9 | Bromomethane | ND | 0.412 | | mg/kg |
| 75-15-0 | Carbon disulfide | ND | 0.412 | | mg/kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301709 | **WD-5 AT 5** | Solid | 08/28/2014 15:45 | 08/30/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 100 | 09/05/2014 17:56 | ALC | 540427 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | ND | 0.412 | | mg/kg |
| 108-90-7 | Chlorobenzene | ND | 0.412 | | mg/kg |
| 75-00-3 | Chloroethane | ND | 0.412 | | mg/kg |
| 67-66-3 | Chloroform | ND | 0.412 | | mg/kg |
| 74-87-3 | Chloromethane | ND | 0.412 | | mg/kg |
| 124-48-1 | Dibromochloromethane | ND | 0.412 | | mg/kg |
| 74-95-3 | Dibromomethane | ND | 0.412 | | mg/kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.412 | | mg/kg |
| 100-41-4 | Ethylbenzene | ND | 0.412 | | mg/kg |
| 87-68-3 | Hexachlorobutadiene | ND | 0.412 | | mg/kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 0.412 | | mg/kg |
| 74-88-4 | Methyl iodide | ND | 0.412 | | mg/kg |
| 75-09-2 | Methylene chloride | ND | 0.825 | | mg/kg |
| 91-20-3 | Naphthalene | ND | 0.412 | | mg/kg |
| 100-42-5 | Styrene | ND | 0.412 | | mg/kg |
| 108-88-3 | Toluene | ND | 0.412 | | mg/kg |
| **79-01-6** | **Trichloroethene** | **1.67** | **0.412** | | **mg/kg** |
| 75-69-4 | Trichlorofluoromethane | ND | 0.412 | | mg/kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.412 | | mg/kg |
| 75-01-4 | Vinyl chloride | ND | 0.412 | | mg/kg |
| 1330-20-7 | Xylene (total) | ND | 0.825 | | mg/kg |
| **156-59-2** | **cis-1,2-Dichloroethene** | **4.74** | **0.412** | | **mg/kg** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.412 | | mg/kg |
| 136777-61-2 | m,p-Xylene | ND | 0.412 | | mg/kg |
| 104-51-8 | n-Butylbenzene | ND | 0.412 | | mg/kg |
| 103-65-1 | n-Propylbenzene | ND | 0.412 | | mg/kg |
| 95-47-6 | o-Xylene | ND | 0.412 | | mg/kg |
| 135-98-8 | sec-Butylbenzene | ND | 0.412 | | mg/kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 0.412 | | mg/kg |
| 98-06-6 | tert-Butylbenzene | ND | 0.412 | | mg/kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.412 | | mg/kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.412 | | mg/kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 0.412 | | mg/kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 3.55 | 3.5 | mg/kg | 99 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 3.55 | 3.51 | mg/kg | 99 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 3.55 | 3.42 | mg/kg | 96 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 3.55 | 3.52 | mg/kg | 99 | 62 - 125 |

RESULTS REPORTED ON A DRY WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301710 | **WD-5 AT 30** | Solid | 08/28/2014 15:45 | 08/30/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 09/05/2014 15:47 | ALC | 540427 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.270 | | mg/kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.270 | | mg/kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.270 | | mg/kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.270 | | mg/kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.270 | | mg/kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.270 | | mg/kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.270 | | mg/kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.270 | | mg/kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.270 | | mg/kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.270 | | mg/kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.270 | | mg/kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.270 | | mg/kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.270 | | mg/kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.270 | | mg/kg |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 0.541 | | mg/kg |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.270 | | mg/kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.270 | | mg/kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.270 | | mg/kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.270 | | mg/kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.270 | | mg/kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.270 | | mg/kg |
| 78-93-3 | 2-Butanone | ND | 0.270 | | mg/kg |
| 95-49-8 | 2-Chlorotoluene | ND | 0.270 | | mg/kg |
| 591-78-6 | 2-Hexanone | ND | 0.270 | | mg/kg |
| 106-43-4 | 4-Chlorotoluene | ND | 0.270 | | mg/kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 0.270 | | mg/kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.270 | | mg/kg |
| 67-64-1 | Acetone | ND | 1.35 | | mg/kg |
| 71-43-2 | Benzene | ND | 0.270 | | mg/kg |
| 108-86-1 | Bromobenzene | ND | 0.270 | | mg/kg |
| 74-97-5 | Bromochloromethane | ND | 0.270 | | mg/kg |
| 75-27-4 | Bromodichloromethane | ND | 0.270 | | mg/kg |
| 75-25-2 | Bromoform | ND | 0.270 | | mg/kg |
| 74-83-9 | Bromomethane | ND | 0.270 | | mg/kg |
| 75-15-0 | Carbon disulfide | ND | 0.270 | | mg/kg |
| 56-23-5 | Carbon tetrachloride | ND | 0.270 | | mg/kg |
| 108-90-7 | Chlorobenzene | ND | 0.270 | | mg/kg |
| 75-00-3 | Chloroethane | ND | 0.270 | | mg/kg |
| 67-66-3 | Chloroform | ND | 0.270 | | mg/kg |
| 74-87-3 | Chloromethane | ND | 0.270 | | mg/kg |
| 124-48-1 | Dibromochloromethane | ND | 0.270 | | mg/kg |
| 74-95-3 | Dibromomethane | ND | 0.270 | | mg/kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.270 | | mg/kg |
| 100-41-4 | Ethylbenzene | ND | 0.270 | | mg/kg |
| 87-68-3 | Hexachlorobutadiene | ND | 0.270 | | mg/kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 0.270 | | mg/kg |
| 74-88-4 | Methyl iodide | ND | 0.270 | | mg/kg |
| 75-09-2 | Methylene chloride | ND | 0.541 | | mg/kg |
| 91-20-3 | Naphthalene | ND | 0.270 | | mg/kg |
| 100-42-5 | Styrene | ND | 0.270 | | mg/kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301710 | **WD-5 AT 30** | Solid | 08/28/2014 15:45 | 08/30/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 09/05/2014 15:47 | ALC | 540427 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **0.357** | **0.270** | | **mg/kg** |
| 108-88-3 | Toluene | ND | 0.270 | | mg/kg |
| 79-01-6 | Trichloroethene | ND | 0.270 | | mg/kg |
| 75-69-4 | Trichlorofluoromethane | ND | 0.270 | | mg/kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.270 | | mg/kg |
| 75-01-4 | Vinyl chloride | ND | 0.270 | | mg/kg |
| 1330-20-7 | Xylene (total) | ND | 0.541 | | mg/kg |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.270 | | mg/kg |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.270 | | mg/kg |
| 136777-61-2 | m,p-Xylene | ND | 0.270 | | mg/kg |
| 104-51-8 | n-Butylbenzene | ND | 0.270 | | mg/kg |
| 103-65-1 | n-Propylbenzene | ND | 0.270 | | mg/kg |
| 95-47-6 | o-Xylene | ND | 0.270 | | mg/kg |
| 135-98-8 | sec-Butylbenzene | ND | 0.270 | | mg/kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 0.270 | | mg/kg |
| 98-06-6 | tert-Butylbenzene | ND | 0.270 | | mg/kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.270 | | mg/kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.270 | | mg/kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 0.270 | | mg/kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 2.38 | 2.35 | mg/kg | 99 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 2.38 | 2.28 | mg/kg | 96 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 2.38 | 2.49 | mg/kg | 105 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 2.38 | 2.25 | mg/kg | 95 | 62 - 125 |

RESULTS REPORTED ON A DRY WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301711 | **WD-6 AT 5** | Solid | 08/28/2014 10:15 | 08/30/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 09/06/2014 14:39 | ALC | 540496 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.134 | | mg/kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.134 | | mg/kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.134 | | mg/kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.134 | | mg/kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.134 | | mg/kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.134 | | mg/kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.134 | | mg/kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.134 | | mg/kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.134 | | mg/kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.134 | | mg/kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.134 | | mg/kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.134 | | mg/kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.134 | | mg/kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.134 | | mg/kg |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **7.42** | **0.269** | | **mg/kg** |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.134 | | mg/kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.134 | | mg/kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.134 | | mg/kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.134 | | mg/kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.134 | | mg/kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.134 | | mg/kg |
| 78-93-3 | 2-Butanone | ND | 0.134 | | mg/kg |
| 95-49-8 | 2-Chlorotoluene | ND | 0.134 | | mg/kg |
| 591-78-6 | 2-Hexanone | ND | 0.134 | | mg/kg |
| 106-43-4 | 4-Chlorotoluene | ND | 0.134 | | mg/kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 0.134 | | mg/kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.134 | | mg/kg |
| 67-64-1 | Acetone | ND | 0.672 | | mg/kg |
| 71-43-2 | Benzene | ND | 0.134 | | mg/kg |
| 108-86-1 | Bromobenzene | ND | 0.134 | | mg/kg |
| 74-97-5 | Bromochloromethane | ND | 0.134 | | mg/kg |
| 75-27-4 | Bromodichloromethane | ND | 0.134 | | mg/kg |
| 75-25-2 | Bromoform | ND | 0.134 | | mg/kg |
| 74-83-9 | Bromomethane | ND | 0.134 | | mg/kg |
| 75-15-0 | Carbon disulfide | ND | 0.134 | | mg/kg |
| 56-23-5 | Carbon tetrachloride | ND | 0.134 | | mg/kg |
| 108-90-7 | Chlorobenzene | ND | 0.134 | | mg/kg |
| 75-00-3 | Chloroethane | ND | 0.134 | | mg/kg |
| 67-66-3 | Chloroform | ND | 0.134 | | mg/kg |
| 74-87-3 | Chloromethane | ND | 0.134 | | mg/kg |
| 124-48-1 | Dibromochloromethane | ND | 0.134 | | mg/kg |
| 74-95-3 | Dibromomethane | ND | 0.134 | | mg/kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.134 | | mg/kg |
| 100-41-4 | Ethylbenzene | ND | 0.134 | | mg/kg |
| 87-68-3 | Hexachlorobutadiene | ND | 0.134 | | mg/kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 0.134 | | mg/kg |
| 74-88-4 | Methyl iodide | ND | 0.134 | | mg/kg |
| 75-09-2 | Methylene chloride | ND | 0.269 | | mg/kg |
| 91-20-3 | Naphthalene | ND | 0.134 | | mg/kg |
| 100-42-5 | Styrene | ND | 0.134 | | mg/kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301711 | **WD-6 AT 5** | Solid | 08/28/2014 10:15 | 08/30/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 09/06/2014 14:39 | ALC | 540496 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | ND | 0.134 | | mg/kg |
| 108-88-3 | Toluene | ND | 0.134 | | mg/kg |
| **79-01-6** | **Trichloroethene** | **0.235** | **0.134** | | **mg/kg** |
| 75-69-4 | Trichlorofluoromethane | ND | 0.134 | | mg/kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.134 | | mg/kg |
| **75-01-4** | **Vinyl chloride** | **0.211** | **0.134** | | **mg/kg** |
| 1330-20-7 | Xylene (total) | ND | 0.269 | | mg/kg |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.134 | | mg/kg |
| 136777-61-2 | m,p-Xylene | ND | 0.134 | | mg/kg |
| 104-51-8 | n-Butylbenzene | ND | 0.134 | | mg/kg |
| 103-65-1 | n-Propylbenzene | ND | 0.134 | | mg/kg |
| 95-47-6 | o-Xylene | ND | 0.134 | | mg/kg |
| 135-98-8 | sec-Butylbenzene | ND | 0.134 | | mg/kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 0.134 | | mg/kg |
| 98-06-6 | tert-Butylbenzene | ND | 0.134 | | mg/kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.134 | | mg/kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.134 | | mg/kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 0.134 | | mg/kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 1.13 | 1.1 | mg/kg | 97 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 1.13 | 1.14 | mg/kg | 101 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 1.13 | 1.18 | mg/kg | 105 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 1.13 | 1.1 | mg/kg | 97 | 62 - 125 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 200 | 09/06/2014 18:30 | ALC | 540496 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **156-59-2** | **cis-1,2-Dichloroethene** | **7.26** | **0.704** | | **mg/kg** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 5.91 | 5.63 | mg/kg | 95 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 5.91 | 5.66 | mg/kg | 96 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 5.91 | 6.06 | mg/kg | 103 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 5.91 | 5.68 | mg/kg | 96 | 62 - 125 |

RESULTS REPORTED ON A DRY WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301712 | **WD-6 AT 30** | Solid | 08/28/2014 10:15 | 08/30/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 09/08/2014 21:08 | CEK | 540581 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.00324 | | mg/kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.00324 | | mg/kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.00324 | | mg/kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.00324 | | mg/kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.00324 | | mg/kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.00324 | | mg/kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.00324 | | mg/kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.00324 | | mg/kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.00324 | | mg/kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.00324 | | mg/kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.00324 | | mg/kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.00324 | | mg/kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.00324 | | mg/kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.00324 | | mg/kg |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **0.035** | **0.00647** | | **mg/kg** |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.00324 | | mg/kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.00324 | | mg/kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.00324 | | mg/kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.00324 | | mg/kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.00324 | | mg/kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.00324 | | mg/kg |
| 78-93-3 | 2-Butanone | ND | 0.00324 | | mg/kg |
| 95-49-8 | 2-Chlorotoluene | ND | 0.00324 | | mg/kg |
| 591-78-6 | 2-Hexanone | ND | 0.00324 | | mg/kg |
| 106-43-4 | 4-Chlorotoluene | ND | 0.00324 | | mg/kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 0.00324 | | mg/kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.00324 | | mg/kg |
| 67-64-1 | Acetone | ND | 0.016 | | mg/kg |
| 71-43-2 | Benzene | ND | 0.00324 | | mg/kg |
| 108-86-1 | Bromobenzene | ND | 0.00324 | | mg/kg |
| 74-97-5 | Bromochloromethane | ND | 0.00324 | | mg/kg |
| 75-27-4 | Bromodichloromethane | ND | 0.00324 | | mg/kg |
| 75-25-2 | Bromoform | ND | 0.00324 | | mg/kg |
| 74-83-9 | Bromomethane | ND | 0.00324 | | mg/kg |
| 75-15-0 | Carbon disulfide | ND | 0.00324 | | mg/kg |
| 56-23-5 | Carbon tetrachloride | ND | 0.00324 | | mg/kg |
| 108-90-7 | Chlorobenzene | ND | 0.00324 | | mg/kg |
| 75-00-3 | Chloroethane | ND | 0.00324 | | mg/kg |
| 67-66-3 | Chloroform | ND | 0.00324 | | mg/kg |
| 74-87-3 | Chloromethane | ND | 0.00324 | | mg/kg |
| 124-48-1 | Dibromochloromethane | ND | 0.00324 | | mg/kg |
| 74-95-3 | Dibromomethane | ND | 0.00324 | | mg/kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.00324 | | mg/kg |
| 100-41-4 | Ethylbenzene | ND | 0.00324 | | mg/kg |
| 87-68-3 | Hexachlorobutadiene | ND | 0.00324 | | mg/kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 0.00324 | | mg/kg |
| 74-88-4 | Methyl iodide | ND | 0.00324 | | mg/kg |
| 75-09-2 | Methylene chloride | ND | 0.00647 | | mg/kg |
| 91-20-3 | Naphthalene | ND | 0.00324 | | mg/kg |
| 100-42-5 | Styrene | ND | 0.00324 | | mg/kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301712 | **WD-6 AT 30** | Solid | 08/28/2014 10:15 | 08/30/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 09/08/2014 21:08 | CEK | 540581 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **0.025** | **0.00324** | | **mg/kg** |
| 108-88-3 | Toluene | ND | 0.00324 | | mg/kg |
| **79-01-6** | **Trichloroethene** | **0.00705** | **0.00324** | | **mg/kg** |
| 75-69-4 | Trichlorofluoromethane | ND | 0.00324 | | mg/kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.00324 | | mg/kg |
| 75-01-4 | Vinyl chloride | ND | 0.00324 | | mg/kg |
| 1330-20-7 | Xylene (total) | ND | 0.00647 | | mg/kg |
| **156-59-2** | **cis-1,2-Dichloroethene** | **0.035** | **0.00324** | | **mg/kg** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.00324 | | mg/kg |
| 136777-61-2 | m,p-Xylene | ND | 0.00324 | | mg/kg |
| 104-51-8 | n-Butylbenzene | ND | 0.00324 | | mg/kg |
| 103-65-1 | n-Propylbenzene | ND | 0.00324 | | mg/kg |
| 95-47-6 | o-Xylene | ND | 0.00324 | | mg/kg |
| 135-98-8 | sec-Butylbenzene | ND | 0.00324 | | mg/kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 0.00324 | | mg/kg |
| 98-06-6 | tert-Butylbenzene | ND | 0.00324 | | mg/kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.00324 | | mg/kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.00324 | | mg/kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 0.00324 | | mg/kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | .024 | .026 | mg/kg | 104 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | .024 | .026 | mg/kg | 107 | 65 - 130 |
| 2037-26-5 | Toluene d8 | .024 | .025 | mg/kg | 101 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | .024 | .027 | mg/kg | 110 | 62 - 125 |

RESULTS REPORTED ON A DRY WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301713 | **WD-7 AT 5** | Solid | 08/28/2014 11:00 | 08/30/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 09/06/2014 13:44 | ALC | 540496 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.267 | | mg/kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.267 | | mg/kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.267 | | mg/kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.267 | | mg/kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.267 | | mg/kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.267 | | mg/kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.267 | | mg/kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.267 | | mg/kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.267 | | mg/kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.267 | | mg/kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.267 | | mg/kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.267 | | mg/kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.267 | | mg/kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.267 | | mg/kg |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **12.5** | **0.534** | | **mg/kg** |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.267 | | mg/kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.267 | | mg/kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.267 | | mg/kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.267 | | mg/kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.267 | | mg/kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.267 | | mg/kg |
| 78-93-3 | 2-Butanone | ND | 0.267 | | mg/kg |
| 95-49-8 | 2-Chlorotoluene | ND | 0.267 | | mg/kg |
| 591-78-6 | 2-Hexanone | ND | 0.267 | | mg/kg |
| 106-43-4 | 4-Chlorotoluene | ND | 0.267 | | mg/kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 0.267 | | mg/kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.267 | | mg/kg |
| 67-64-1 | Acetone | ND | 1.33 | | mg/kg |
| 71-43-2 | Benzene | ND | 0.267 | | mg/kg |
| 108-86-1 | Bromobenzene | ND | 0.267 | | mg/kg |
| 74-97-5 | Bromochloromethane | ND | 0.267 | | mg/kg |
| 75-27-4 | Bromodichloromethane | ND | 0.267 | | mg/kg |
| 75-25-2 | Bromoform | ND | 0.267 | | mg/kg |
| 74-83-9 | Bromomethane | ND | 0.267 | | mg/kg |
| 75-15-0 | Carbon disulfide | ND | 0.267 | | mg/kg |
| 56-23-5 | Carbon tetrachloride | ND | 0.267 | | mg/kg |
| 108-90-7 | Chlorobenzene | ND | 0.267 | | mg/kg |
| 75-00-3 | Chloroethane | ND | 0.267 | | mg/kg |
| 67-66-3 | Chloroform | ND | 0.267 | | mg/kg |
| 74-87-3 | Chloromethane | ND | 0.267 | | mg/kg |
| 124-48-1 | Dibromochloromethane | ND | 0.267 | | mg/kg |
| 74-95-3 | Dibromomethane | ND | 0.267 | | mg/kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.267 | | mg/kg |
| 100-41-4 | Ethylbenzene | ND | 0.267 | | mg/kg |
| 87-68-3 | Hexachlorobutadiene | ND | 0.267 | | mg/kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 0.267 | | mg/kg |
| 74-88-4 | Methyl iodide | ND | 0.267 | | mg/kg |
| 75-09-2 | Methylene chloride | ND | 0.534 | | mg/kg |
| 91-20-3 | Naphthalene | ND | 0.267 | | mg/kg |
| 100-42-5 | Styrene | ND | 0.267 | | mg/kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301713 | **WD-7 AT 5** | Solid | 08/28/2014 11:00 | 08/30/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 09/06/2014 13:44 | ALC | 540496 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | ND | 0.267 | | mg/kg |
| 108-88-3 | Toluene | ND | 0.267 | | mg/kg |
| 79-01-6 | Trichloroethene | ND | 0.267 | | mg/kg |
| 75-69-4 | Trichlorofluoromethane | ND | 0.267 | | mg/kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.267 | | mg/kg |
| **75-01-4** | **Vinyl chloride** | **1.92** | **0.267** | | **mg/kg** |
| 1330-20-7 | Xylene (total) | ND | 0.534 | | mg/kg |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.267 | | mg/kg |
| 136777-61-2 | m,p-Xylene | ND | 0.267 | | mg/kg |
| 104-51-8 | n-Butylbenzene | ND | 0.267 | | mg/kg |
| 103-65-1 | n-Propylbenzene | ND | 0.267 | | mg/kg |
| 95-47-6 | o-Xylene | ND | 0.267 | | mg/kg |
| 135-98-8 | sec-Butylbenzene | ND | 0.267 | | mg/kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 0.267 | | mg/kg |
| 98-06-6 | tert-Butylbenzene | ND | 0.267 | | mg/kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.267 | | mg/kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.267 | | mg/kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 0.267 | | mg/kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 2.22 | 2.16 | mg/kg | 97 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 2.22 | 2.13 | mg/kg | 96 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 2.22 | 2.32 | mg/kg | 104 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 2.22 | 2.11 | mg/kg | 95 | 62 - 125 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 200 | 09/06/2014 15:21 | ALC | 540496 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **156-59-2** | **cis-1,2-Dichloroethene** | **10.3** | **1.07** | | **mg/kg** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 8.9 | 8.54 | mg/kg | 96 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | 8.9 | 8.7 | mg/kg | 98 | 65 - 130 |
| 2037-26-5 | Toluene d8 | 8.9 | 9.16 | mg/kg | 103 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 8.9 | 8.46 | mg/kg | 95 | 62 - 125 |

RESULTS REPORTED ON A DRY WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301714 | **WD-7 AT 20** | Solid | 08/28/2014 11:00 | 08/30/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 09/08/2014 19:38 | CEK | 540581 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.00497 | | mg/kg |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.00497 | | mg/kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.00497 | | mg/kg |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.00497 | | mg/kg |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.00497 | | mg/kg |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.00497 | | mg/kg |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.00497 | | mg/kg |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.00497 | | mg/kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.00497 | | mg/kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.00497 | | mg/kg |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.00497 | | mg/kg |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.00497 | | mg/kg |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.00497 | | mg/kg |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.00497 | | mg/kg |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **0.219** | **0.00993** | | **mg/kg** |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.00497 | | mg/kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.00497 | | mg/kg |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.00497 | | mg/kg |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.00497 | | mg/kg |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.00497 | | mg/kg |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.00497 | | mg/kg |
| 78-93-3 | 2-Butanone | ND | 0.00497 | | mg/kg |
| 95-49-8 | 2-Chlorotoluene | ND | 0.00497 | | mg/kg |
| 591-78-6 | 2-Hexanone | ND | 0.00497 | | mg/kg |
| 106-43-4 | 4-Chlorotoluene | ND | 0.00497 | | mg/kg |
| 99-87-6 | 4-Isopropyltoluene | ND | 0.00497 | | mg/kg |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.00497 | | mg/kg |
| 67-64-1 | Acetone | ND | 0.025 | | mg/kg |
| 71-43-2 | Benzene | ND | 0.00497 | | mg/kg |
| 108-86-1 | Bromobenzene | ND | 0.00497 | | mg/kg |
| 74-97-5 | Bromochloromethane | ND | 0.00497 | | mg/kg |
| 75-27-4 | Bromodichloromethane | ND | 0.00497 | | mg/kg |
| 75-25-2 | Bromoform | ND | 0.00497 | | mg/kg |
| 74-83-9 | Bromomethane | ND | 0.00497 | | mg/kg |
| 75-15-0 | Carbon disulfide | ND | 0.00497 | | mg/kg |
| 56-23-5 | Carbon tetrachloride | ND | 0.00497 | | mg/kg |
| 108-90-7 | Chlorobenzene | ND | 0.00497 | | mg/kg |
| 75-00-3 | Chloroethane | ND | 0.00497 | | mg/kg |
| 67-66-3 | Chloroform | ND | 0.00497 | | mg/kg |
| 74-87-3 | Chloromethane | ND | 0.00497 | | mg/kg |
| 124-48-1 | Dibromochloromethane | ND | 0.00497 | | mg/kg |
| 74-95-3 | Dibromomethane | ND | 0.00497 | | mg/kg |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.00497 | | mg/kg |
| 100-41-4 | Ethylbenzene | ND | 0.00497 | | mg/kg |
| 87-68-3 | Hexachlorobutadiene | ND | 0.00497 | | mg/kg |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 0.00497 | | mg/kg |
| 74-88-4 | Methyl iodide | ND | 0.00497 | | mg/kg |
| 75-09-2 | Methylene chloride | ND | 0.00993 | | mg/kg |
| 91-20-3 | Naphthalene | ND | 0.00497 | | mg/kg |
| 100-42-5 | Styrene | ND | 0.00497 | | mg/kg |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301714 | **WD-7 AT 20** | Solid | 08/28/2014 11:00 | 08/30/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 09/08/2014 19:38 | CEK | 540581 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **0.321** | **0.00497** | | **mg/kg** |
| 108-88-3 | Toluene | ND | 0.00497 | | mg/kg |
| **79-01-6** | **Trichloroethene** | **0.065** | **0.00497** | | **mg/kg** |
| 75-69-4 | Trichlorofluoromethane | ND | 0.00497 | | mg/kg |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.00497 | | mg/kg |
| 75-01-4 | Vinyl chloride | ND | 0.00497 | | mg/kg |
| 1330-20-7 | Xylene (total) | ND | 0.00993 | | mg/kg |
| **156-59-2** | **cis-1,2-Dichloroethene** | **0.216** | **0.00497** | | **mg/kg** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.00497 | | mg/kg |
| 136777-61-2 | m,p-Xylene | ND | 0.00497 | | mg/kg |
| 104-51-8 | n-Butylbenzene | ND | 0.00497 | | mg/kg |
| 103-65-1 | n-Propylbenzene | ND | 0.00497 | | mg/kg |
| 95-47-6 | o-Xylene | ND | 0.00497 | | mg/kg |
| 135-98-8 | sec-Butylbenzene | ND | 0.00497 | | mg/kg |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 0.00497 | | mg/kg |
| 98-06-6 | tert-Butylbenzene | ND | 0.00497 | | mg/kg |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.00497 | | mg/kg |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.00497 | | mg/kg |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 0.00497 | | mg/kg |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | .043 | .044 | mg/kg | 103 | 62 - 127 |
| 1868-53-7 | Dibromofluoromethane | .043 | .048 | mg/kg | 111 | 65 - 130 |
| 2037-26-5 | Toluene d8 | .043 | .044 | mg/kg | 101 | 71 - 132 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | .043 | .05 | mg/kg | 116 | 62 - 125 |

RESULTS REPORTED ON A DRY WEIGHT BASIS

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301715 | **TRIP BLANK** | Water | 08/28/2014 00:00 | 08/30/2014 09:30 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 08/31/2014 10:45 | LBH | 540093 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.00 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.00 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.00 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.00 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.00 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.00 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.00 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.00 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.00 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.00 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.00 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.00 | | ug/L |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 10.0 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.00 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.00 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.00 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.00 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.00 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.00 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 5.00 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 5.00 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 5.00 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 5.00 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 5.00 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | | ug/L |
| **67-64-1** | **Acetone** | **5.49** | **5.00** | | **ug/L** |
| 71-43-2 | Benzene | ND | 5.00 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 5.00 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 5.00 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 5.00 | | ug/L |
| 75-25-2 | Bromoform | ND | 5.00 | | ug/L |
| 74-83-9 | Bromomethane | ND | 5.00 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 5.00 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 5.00 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 5.00 | | ug/L |
| 75-00-3 | Chloroethane | ND | 5.00 | | ug/L |
| 67-66-3 | Chloroform | ND | 5.00 | | ug/L |
| 74-87-3 | Chloromethane | ND | 5.00 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 5.00 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 5.00 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.00 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 5.00 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 5.00 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 5.00 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 5.00 | | ug/L |
| 91-20-3 | Naphthalene | ND | 5.00 | | ug/L |
| 100-42-5 | Styrene | ND | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21408301715 | **TRIP BLANK** | Water | 08/28/2014 00:00 | 08/30/2014 09:30 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 08/31/2014 10:45 | LBH | 540093 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | ND | 5.00 | | ug/L |
| 108-88-3 | Toluene | ND | 5.00 | | ug/L |
| 79-01-6 | Trichloroethene | ND | 5.00 | | ug/L |
| 75-69-4 | Trichlorofluoromethane | ND | 5.00 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.00 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 5.00 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 15.0 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 10.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 5.00 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | | ug/L |
| 95-47-6 | o-Xylene | ND | 5.00 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 5.00 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 5.00 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 5.00 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.00 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 50 | 51.4 | ug/L | 103 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 50 | 54.2 | ug/L | 108 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 50 | 52.8 | ug/L | 106 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50 | 50.9 | ug/L | 102 | 71 - 127 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 540093 | **Client ID** | MB540093 | | | LCS540093 | | | LCSD540093 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1355147 | | | 1355148 | | | 1355149 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 08/31/2014 09:44 | | | 08/31/2014 07:05 | | | 08/31/2014 07:25 | | |
| | | **Matrix** | Water | | | Water | | | Water | | |
| **EPA 8260B** | | **Units** | **Result** | ug/L **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 67-64-1 | Acetone | | ND | 5.00 | 50.0 | 56.4 | 113 | 44 - 156 | 55.8 | 112 | 1 | 30 |
| 74-97-5 | Bromochloromethane | | ND | 5.00 | 50.0 | 53.4 | 107 | 76 - 130 | 48.2 | 96 | 10 | 30 |
| 75-27-4 | Bromodichloromethane | | ND | 5.00 | 50.0 | 49.3 | 99 | 74 - 125 | 44.8 | 90 | 10 | 30 |
| 75-25-2 | Bromoform | | ND | 5.00 | 50.0 | 50.3 | 101 | 64 - 122 | 47.0 | 94 | 7 | 30 |
| 74-83-9 | Bromomethane | | ND | 5.00 | 50.0 | 39.6 | 79 | 47 - 138 | 38.4 | 77 | 3 | 30 |
| 75-15-0 | Carbon disulfide | | ND | 5.00 | 50.0 | 42.4 | 85 | 69 - 136 | 38.3 | 77 | 10 | 30 |
| 56-23-5 | Carbon tetrachloride | | ND | 5.00 | 50.0 | 50.1 | 100 | 76 - 128 | 44.8 | 90 | 11 | 30 |
| 75-00-3 | Chloroethane | | ND | 5.00 | 50.0 | 42.0 | 84 | 62 - 141 | 39.1 | 78 | 7 | 30 |
| 136777-61-2 | m,p-Xylene | | ND | 10.0 | 100 | 103 | 103 | 74 - 126 | 91.1 | 91 | 12 | 30 |
| 67-66-3 | Chloroform | | ND | 5.00 | 50.0 | 51.8 | 104 | 75 - 122 | 46.6 | 93 | 11 | 30 |
| 74-87-3 | Chloromethane | | ND | 5.00 | 50.0 | 44.8 | 90 | 59 - 132 | 39.6 | 79 | 12 | 30 |
| 124-48-1 | Dibromochloromethane | | ND | 5.00 | 50.0 | 50.2 | 100 | 71 - 123 | 45.9 | 92 | 9 | 30 |
| 74-95-3 | Dibromomethane | | ND | 5.00 | 50.0 | 47.9 | 96 | 72 - 129 | 45.3 | 91 | 6 | 30 |
| 75-71-8 | Dichlorodifluoromethane | | ND | 5.00 | 50.0 | 48.9 | 98 | 58 - 140 | 43.1 | 86 | 13 | 30 |
| 75-34-3 | 1,1-Dichloroethane | | ND | 5.00 | 50.0 | 49.9 | 100 | 74 - 127 | 44.9 | 90 | 11 | 30 |
| 107-06-2 | 1,2-Dichloroethane | | ND | 5.00 | 50.0 | 46.5 | 93 | 71 - 129 | 42.7 | 85 | 9 | 30 |
| 156-59-2 | cis-1,2-Dichloroethene | | ND | 5.00 | 50.0 | 48.0 | 96 | 73 - 130 | 43.2 | 86 | 11 | 30 |
| 156-60-5 | trans-1,2-Dichloroethene | | ND | 5.00 | 50.0 | 47.2 | 94 | 69 - 132 | 41.9 | 84 | 12 | 30 |
| 75-09-2 | Methylene chloride | | ND | 5.00 | 50.0 | 46.5 | 93 | 68 - 132 | 42.9 | 86 | 8 | 30 |
| 78-87-5 | 1,2-Dichloropropane | | ND | 5.00 | 50.0 | 47.1 | 94 | 72 - 128 | 42.9 | 86 | 9 | 30 |
| 10061-01-5 | cis-1,3-Dichloropropene | | ND | 5.00 | 50.0 | 49.7 | 99 | 71 - 132 | 45.3 | 91 | 9 | 30 |
| 10061-02-6 | trans-1,3-Dichloropropene | | ND | 5.00 | 50.0 | 48.5 | 97 | 71 - 131 | 44.7 | 89 | 8 | 30 |
| 100-41-4 | Ethylbenzene | | ND | 5.00 | 50.0 | 52.2 | 104 | 74 - 126 | 45.7 | 91 | 13 | 30 |
| 591-78-6 | 2-Hexanone | | ND | 5.00 | 50.0 | 45.8 | 92 | 50 - 135 | 43.8 | 88 | 4 | 30 |
| 98-82-8 | Isopropylbenzene (Cumene) | | ND | 5.00 | 50.0 | 54.1 | 108 | 71 - 125 | 46.9 | 94 | 14 | 30 |
| 78-93-3 | 2-Butanone | | ND | 5.00 | 50.0 | 45.9 | 92 | 58 - 137 | 45.0 | 90 | 2 | 30 |
| 74-88-4 | Methyl iodide | | ND | 5.00 | 50.0 | 36.3 | 73 | 57 - 141 | 34.0 | 68 | 7 | 30 |
| 108-10-1 | 4-Methyl-2-pentanone | | ND | 5.00 | 50.0 | 43.6 | 87 | 57 - 132 | 42.2 | 84 | 3 | 30 |
| 103-65-1 | n-Propylbenzene | | ND | 5.00 | 50.0 | 48.7 | 97 | 75 - 129 | 43.3 | 87 | 12 | 30 |
| 100-42-5 | Styrene | | ND | 5.00 | 50.0 | 49.0 | 98 | 71 - 127 | 44.0 | 88 | 11 | 30 |
| 127-18-4 | Tetrachloroethene | | ND | 5.00 | 50.0 | 55.5 | 111 | 68 - 128 | 47.5 | 95 | 16 | 30 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | | ND | 5.00 | 50.0 | 49.3 | 99 | 75 - 124 | 44.5 | 89 | 10 | 30 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | ND | 5.00 | 50.0 | 47.7 | 95 | 70 - 122 | 45.4 | 91 | 5 | 30 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 540093 | **Client ID** | MB540093 | | | LCS540093 | | | LCSD540093 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1355147 | | | 1355148 | | | 1355149 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 08/31/2014 09:44 | | | 08/31/2014 07:05 | | | 08/31/2014 07:25 | | |
| | | **Matrix** | Water | | | Water | | | Water | | |
| **EPA 8260B** | | **Units** | **Result** | ug/L **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 120-82-1 | 1,2,4-Trichlorobenzene | | ND | 5.00 | 50.0 | 50.6 | 101 | 61 - 135 | 45.6 | 91 | 10 | 30 |
| 71-55-6 | 1,1,1-Trichloroethane | | ND | 5.00 | 50.0 | 49.1 | 98 | 76 - 126 | 43.9 | 88 | 11 | 30 |
| 79-00-5 | 1,1,2-Trichloroethane | | ND | 5.00 | 50.0 | 48.8 | 98 | 72 - 121 | 45.0 | 90 | 8 | 30 |
| 75-69-4 | Trichlorofluoromethane | | ND | 5.00 | 50.0 | 42.2 | 84 | 72 - 136 | 39.5 | 79 | 7 | 30 |
| 96-18-4 | 1,2,3-Trichloropropane | | ND | 5.00 | 50.0 | 44.1 | 88 | 70 - 120 | 41.3 | 83 | 7 | 30 |
| 95-63-6 | 1,2,4-Trimethylbenzene | | ND | 5.00 | 50.0 | 50.1 | 100 | 74 - 125 | 44.9 | 90 | 11 | 30 |
| 108-67-8 | 1,3,5-Trimethylbenzene | | ND | 5.00 | 50.0 | 50.4 | 101 | 71 - 132 | 44.4 | 89 | 13 | 30 |
| 75-01-4 | Vinyl chloride | | ND | 5.00 | 50.0 | 41.5 | 83 | 68 - 132 | 37.5 | 75 | 10 | 30 |
| 95-47-6 | o-Xylene | | ND | 5.00 | 50.0 | 52.1 | 104 | 73 - 130 | 46.2 | 92 | 12 | 30 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | ND | 5.00 | 50.0 | 41.5 | 83 | 57 - 121 | 40.2 | 80 | 3 | 30 |
| 106-93-4 | 1,2-Dibromoethane | | ND | 5.00 | 50.0 | 48.9 | 98 | 70 - 124 | 45.3 | 91 | 8 | 30 |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | | ND | 5.00 | 50.0 | 46.3 | 93 | 71 - 125 | 43.1 | 86 | 7 | 30 |
| 540-59-0 | 1,2-Dichloroethene(Total) | | ND | 10.0 | 100 | 95.2 | 95 | 74 - 128 | 85.1 | 85 | 11 | 30 |
| 99-87-6 | 4-Isopropyltoluene | | ND | 5.00 | 50.0 | 51.1 | 102 | 71 - 129 | 44.5 | 89 | 14 | 30 |
| 1330-20-7 | Xylene (total) | | ND | 15.0 | 150 | 156 | 104 | 74 - 127 | 137 | 91 | 13 | 30 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | | ND | 5.00 | 50.0 | 40.6 | 81 | 56 - 132 | 38.5 | 77 | 5 | 30 |
| 594-20-7 | 2,2-Dichloropropane | | ND | 5.00 | 50.0 | 48.5 | 97 | 77 - 124 | 42.6 | 85 | 13 | 30 |
| 76-13-1 | Trichlorotrifluoroethane | | ND | 5.00 | 50.0 | 44.2 | 88 | 72 - 136 | 37.8 | 76 | 16 | 30 |
| 563-58-6 | 1,1-Dichloropropene | | ND | 5.00 | 50.0 | 50.0 | 100 | 72 - 131 | 44.2 | 88 | 12 | 30 |
| 142-28-9 | 1,3-Dichloropropane | | ND | 5.00 | 50.0 | 47.2 | 94 | 74 - 122 | 43.0 | 86 | 9 | 30 |
| 108-86-1 | Bromobenzene | | ND | 5.00 | 50.0 | 44.3 | 89 | 71 - 120 | 40.7 | 81 | 8 | 30 |
| 95-49-8 | 2-Chlorotoluene | | ND | 5.00 | 50.0 | 53.1 | 106 | 72 - 127 | 47.2 | 94 | 12 | 30 |
| 106-43-4 | 4-Chlorotoluene | | ND | 5.00 | 50.0 | 48.5 | 97 | 75 - 126 | 43.8 | 88 | 10 | 30 |
| 98-06-6 | tert-Butylbenzene | | ND | 5.00 | 50.0 | 47.8 | 96 | 72 - 126 | 41.9 | 84 | 13 | 30 |
| 135-98-8 | sec-Butylbenzene | | ND | 5.00 | 50.0 | 50.1 | 100 | 70 - 136 | 43.9 | 88 | 13 | 30 |
| 541-73-1 | 1,3-Dichlorobenzene | | ND | 5.00 | 50.0 | 50.9 | 102 | 74 - 126 | 45.2 | 90 | 12 | 30 |
| 106-46-7 | 1,4-Dichlorobenzene | | ND | 5.00 | 50.0 | 49.7 | 99 | 72 - 122 | 44.6 | 89 | 11 | 30 |
| 104-51-8 | n-Butylbenzene | | ND | 5.00 | 50.0 | 49.0 | 98 | 69 - 134 | 42.1 | 84 | 15 | 30 |
| 95-50-1 | 1,2-Dichlorobenzene | | ND | 5.00 | 50.0 | 49.5 | 99 | 71 - 126 | 44.8 | 90 | 10 | 30 |
| 87-68-3 | Hexachlorobutadiene | | ND | 5.00 | 50.0 | 54.8 | 110 | 61 - 144 | 47.2 | 94 | 15 | 30 |
| 91-20-3 | Naphthalene | | ND | 5.00 | 50.0 | 43.2 | 86 | 57 - 138 | 41.8 | 84 | 3 | 35 |
| 75-35-4 | 1,1-Dichloroethene | | ND | 5.00 | 50.0 | 42.1 | 84 | 69 - 129 | 38.8 | 78 | 8 | 20 |
| 71-43-2 | Benzene | | ND | 5.00 | 50.0 | 49.4 | 99 | 70 - 129 | 44.3 | 89 | 11 | 20 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 540093 | **Client ID** | MB540093 | | | LCS540093 | | | LCSD540093 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1355147 | | | 1355148 | | | 1355149 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 08/31/2014 09:44 | | | 08/31/2014 07:05 | | | 08/31/2014 07:25 | | |
| | | **Matrix** | Water | | | Water | | | Water | | |
| **EPA 8260B** | | **Units** | **Result** | ug/L **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 79-01-6 | Trichloroethene | | ND | 5.00 | 50.0 | 51.4 | 103 | 76 - 129 | 45.5 | 91 | 12 | 20 |
| 108-88-3 | Toluene | | ND | 5.00 | 50.0 | 49.6 | 99 | 72 - 120 | 43.7 | 87 | 13 | 20 |
| 108-90-7 | Chlorobenzene | | ND | 5.00 | 50.0 | 51.4 | 103 | 74 - 123 | 46.0 | 92 | 11 | 20 |
| **Surrogate** | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | | 52.3 | 105 | 50 | 53.4 | 107 | 78 - 130 | 52.9 | 106 | | |
| 1868-53-7 | Dibromofluoromethane | | 53.9 | 108 | 50 | 52.3 | 105 | 77 - 127 | 51.7 | 103 | | |
| 2037-26-5 | Toluene d8 | | 52.4 | 105 | 50 | 49.5 | 99 | 76 - 134 | 48.6 | 97 | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | | 51.1 | 102 | 50 | 49.4 | 99 | 71 - 127 | 49.7 | 99 | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 540427 | **Client ID** | MB540427 | | | LCS540427 | | | LCSD540427 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1356599 | | | 1356600 | | | 1356601 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 09/05/2014 10:59 | | | 09/05/2014 08:58 | | | 09/05/2014 09:20 | | |
| | | **Matrix** | Solid | | | Solid | | | Solid | | |
| **EPA 8260B** | | **Units** | **Result** | mg/kg **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 67-64-1 | Acetone | | ND | 1.25 | 2.50 | 2.53 | 101 | 38 - 152 | 2.23 | 89 | 13 | 30 |
| 74-97-5 | Bromochloromethane | | ND | 0.250 | 2.50 | 2.27 | 91 | 73 - 127 | 2.25 | 90 | 1 | 30 |
| 75-27-4 | Bromodichloromethane | | ND | 0.250 | 2.50 | 2.18 | 87 | 74 - 126 | 2.12 | 85 | 3 | 30 |
| 75-25-2 | Bromoform | | ND | 0.250 | 2.50 | 2.03 | 81 | 67 - 122 | 1.98 | 79 | 2 | 30 |
| 74-83-9 | Bromomethane | | ND | 0.250 | 2.50 | 2.66 | 106 | 48 - 139 | 2.66 | 106 | 0 | 30 |
| 75-15-0 | Carbon disulfide | | ND | 0.250 | 2.50 | 2.28 | 91 | 68 - 133 | 2.28 | 91 | 0 | 30 |
| 56-23-5 | Carbon tetrachloride | | ND | 0.250 | 2.50 | 2.30 | 92 | 71 - 133 | 2.23 | 89 | 3 | 30 |
| 75-00-3 | Chloroethane | | ND | 0.250 | 2.50 | 2.26 | 90 | 57 - 144 | 2.21 | 88 | 2 | 30 |
| 136777-61-2 | m,p-Xylene | | ND | 0.250 | 5.00 | 4.49 | 90 | 72 - 128 | 4.35 | 87 | 3 | 30 |
| 67-66-3 | Chloroform | | ND | 0.250 | 2.50 | 2.11 | 84 | 74 - 124 | 2.10 | 84 | 1 | 30 |
| 74-87-3 | Chloromethane | | ND | 0.250 | 2.50 | 2.12 | 85 | 61 - 130 | 2.06 | 82 | 3 | 30 |
| 124-48-1 | Dibromochloromethane | | ND | 0.250 | 2.50 | 2.34 | 94 | 74 - 122 | 2.25 | 90 | 4 | 30 |
| 74-95-3 | Dibromomethane | | ND | 0.250 | 2.50 | 2.18 | 87 | 72 - 125 | 2.10 | 84 | 4 | 30 |
| 75-71-8 | Dichlorodifluoromethane | | ND | 0.250 | 2.50 | 2.19 | 88 | 59 - 138 | 2.13 | 85 | 3 | 30 |
| 75-34-3 | 1,1-Dichloroethane | | ND | 0.250 | 2.50 | 2.31 | 92 | 71 - 126 | 1.96 | 78 | 16 | 30 |
| 107-06-2 | 1,2-Dichloroethane | | ND | 0.250 | 2.50 | 2.06 | 82 | 68 - 126 | 1.99 | 80 | 3 | 30 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 540427 | **Client ID** | MB540427 | | | LCS540427 | | | LCSD540427 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1356599 | | | 1356600 | | | 1356601 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 09/05/2014 10:59 | | | 09/05/2014 08:58 | | | 09/05/2014 09:20 | | |
| | | **Matrix** | Solid | | | Solid | | | Solid | | |
| **EPA 8260B** | | **Units** | mg/kg | **Spike** | **Result** | | **Control** | **Result** | | | **RPD** |
| | | **Result** | **RDL** | **Added** | | **% R** | **Limits % R** | | **% R** | **RPD** | **Limit** |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.250 | 2.50 | 2.00 | 80 | 72 - 130 | 2.12 | 85 | 6 | 30 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.250 | 2.50 | 2.28 | 91 | 67 - 134 | 2.11 | 84 | 8 | 30 |
| 75-09-2 | Methylene chloride | ND | 0.500 | 2.50 | 2.26 | 90 | 66 - 130 | 2.05 | 82 | 10 | 30 |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.250 | 2.50 | 2.06 | 82 | 72 - 129 | 1.97 | 79 | 4 | 30 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.250 | 2.50 | 2.20 | 88 | 72 - 129 | 2.11 | 84 | 4 | 30 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.250 | 2.50 | 2.18 | 87 | 72 - 126 | 2.09 | 84 | 4 | 30 |
| 100-41-4 | Ethylbenzene | ND | 0.250 | 2.50 | 2.21 | 88 | 74 - 130 | 2.17 | 87 | 2 | 30 |
| 591-78-6 | 2-Hexanone | ND | 0.250 | 2.50 | 1.76 | 70 | 47 - 137 | 1.64 | 66 | 7 | 30 |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 0.250 | 2.50 | 2.25 | 90 | 74 - 125 | 2.21 | 88 | 2 | 30 |
| 78-93-3 | 2-Butanone | ND | 0.250 | 2.50 | 1.65 | 66 | 47 - 142 | 1.46 | 58 | 12 | 30 |
| 74-88-4 | Methyl iodide | ND | 0.250 | 2.50 | 2.66 | 106 | 54 - 140 | 2.80 | 112 | 5 | 30 |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.250 | 2.50 | 1.79 | 72 | 52 - 136 | 1.62 | 65 | 10 | 30 |
| 103-65-1 | n-Propylbenzene | ND | 0.250 | 2.50 | 1.95 | 78 | 73 - 137 | 2.00 | 80 | 3 | 30 |
| 100-42-5 | Styrene | ND | 0.250 | 2.50 | 2.31 | 92 | 72 - 128 | 2.25 | 90 | 3 | 30 |
| 127-18-4 | Tetrachloroethene | ND | 0.250 | 2.50 | 2.30 | 92 | 70 - 127 | 2.27 | 91 | 1 | 30 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.250 | 2.50 | 2.35 | 94 | 77 - 122 | 2.23 | 89 | 5 | 30 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.250 | 2.50 | 1.91 | 76 | 66 - 129 | 1.86 | 74 | 3 | 30 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.250 | 2.50 | 2.01 | 80 | 64 - 135 | 2.08 | 83 | 3 | 30 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.250 | 2.50 | 2.15 | 86 | 70 - 130 | 2.12 | 85 | 1 | 30 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.250 | 2.50 | 2.26 | 90 | 74 - 120 | 2.11 | 84 | 7 | 30 |
| 75-69-4 | Trichlorofluoromethane | ND | 0.250 | 2.50 | 2.32 | 93 | 64 - 141 | 2.33 | 93 | 0 | 30 |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.250 | 2.50 | 1.86 | 74 | 63 - 132 | 1.79 | 72 | 4 | 30 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.250 | 2.50 | 2.02 | 81 | 75 - 130 | 2.04 | 82 | 1 | 30 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.250 | 2.50 | 1.99 | 80 | 74 - 136 | 2.02 | 81 | 1 | 30 |
| 75-01-4 | Vinyl chloride | ND | 0.250 | 2.50 | 2.12 | 85 | 67 - 131 | 2.07 | 83 | 2 | 30 |
| 95-47-6 | o-Xylene | ND | 0.250 | 2.50 | 2.22 | 89 | 69 - 133 | 2.13 | 85 | 4 | 30 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.250 | 2.50 | 1.96 | 78 | 60 - 123 | 1.89 | 76 | 4 | 30 |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.250 | 2.50 | 2.17 | 87 | 74 - 122 | 2.07 | 83 | 5 | 30 |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 0.250 | 2.50 | 2.25 | 90 | 69 - 126 | 2.05 | 82 | 9 | 30 |
| 99-87-6 | 4-Isopropyltoluene | ND | 0.250 | 2.50 | 2.03 | 81 | 71 - 136 | 2.10 | 84 | 3 | 30 |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 0.500 | 5.00 | 4.28 | 86 | 72 - 129 | 4.23 | 85 | 1 | 30 |
| 1330-20-7 | Xylene (total) | ND | 0.500 | 7.50 | 6.72 | 90 | 71 - 129 | 6.48 | 86 | 4 | 30 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 0.250 | 2.50 | 1.69 | 68 | 44 - 146 | 1.60 | 64 | 5 | 30 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 540427 | **Client ID** | MB540427 | | | LCS540427 | | | LCSD540427 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1356599 | | | 1356600 | | | 1356601 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 09/05/2014 10:59 | | | 09/05/2014 08:58 | | | 09/05/2014 09:20 | | |
| | | **Matrix** | Solid | | | Solid | | | Solid | | |
| **EPA 8260B** | | **Units** | **Result** | mg/kg **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 594-20-7 | 2,2-Dichloropropane | | ND | 0.250 | 2.50 | 2.13 | 85 | 74 - 129 | 2.25 | 90 | 5 | 30 |
| 76-13-1 | Trichlorotrifluoroethane | | ND | 0.250 | 2.50 | 2.31 | 92 | 66 - 139 | 2.34 | 94 | 1 | 30 |
| 563-58-6 | 1,1-Dichloropropene | | ND | 0.250 | 2.50 | 2.12 | 85 | 70 - 138 | 2.08 | 83 | 2 | 30 |
| 142-28-9 | 1,3-Dichloropropane | | ND | 0.250 | 2.50 | 2.15 | 86 | 77 - 121 | 2.02 | 81 | 6 | 30 |
| 108-86-1 | Bromobenzene | | ND | 0.250 | 2.50 | 1.86 | 74 | 73 - 124 | 1.84 | 74 | 1 | 30 |
| 95-49-8 | 2-Chlorotoluene | | ND | 0.250 | 2.50 | 1.90 | 76 | 75 - 132 | 1.91 | 76 | 1 | 30 |
| 106-43-4 | 4-Chlorotoluene | | ND | 0.250 | 2.50 | 1.93 | 77 | 74 - 133 | 1.97 | 79 | 2 | 30 |
| 98-06-6 | tert-Butylbenzene | | ND | 0.250 | 2.50 | 1.96 | 78 | 72 - 136 | 1.97 | 79 | 1 | 30 |
| 135-98-8 | sec-Butylbenzene | | ND | 0.250 | 2.50 | 2.00 | 80 | 72 - 141 | 2.05 | 82 | 2 | 30 |
| 541-73-1 | 1,3-Dichlorobenzene | | ND | 0.250 | 2.50 | 2.08 | 83 | 77 - 127 | 2.12 | 85 | 2 | 30 |
| 106-46-7 | 1,4-Dichlorobenzene | | ND | 0.250 | 2.50 | 2.04 | 82 | 74 - 123 | 2.08 | 83 | 2 | 30 |
| 104-51-8 | n-Butylbenzene | | ND | 0.250 | 2.50 | 2.02 | 81 | 68 - 144 | 2.09 | 84 | 3 | 30 |
| 95-50-1 | 1,2-Dichlorobenzene | | ND | 0.250 | 2.50 | 2.08 | 83 | 76 - 125 | 2.10 | 84 | 1 | 30 |
| 87-68-3 | Hexachlorobutadiene | | ND | 0.250 | 2.50 | 1.97 | 79 | 71 - 140 | 2.05 | 82 | 4 | 30 |
| 91-20-3 | Naphthalene | | ND | 0.250 | 2.50 | 2.01 | 80 | 54 - 132 | 1.96 | 78 | 3 | 35 |
| 75-35-4 | 1,1-Dichloroethene | | ND | 0.250 | 2.50 | 2.25 | 90 | 68 - 129 | 2.14 | 86 | 5 | 20 |
| 71-43-2 | Benzene | | ND | 0.250 | 2.50 | 2.09 | 84 | 73 - 128 | 2.04 | 82 | 2 | 20 |
| 79-01-6 | Trichloroethene | | ND | 0.250 | 2.50 | 2.20 | 88 | 78 - 127 | 2.18 | 87 | 1 | 20 |
| 108-88-3 | Toluene | | ND | 0.250 | 2.50 | 2.17 | 87 | 74 - 121 | 2.08 | 83 | 4 | 20 |
| 108-90-7 | Chlorobenzene | | ND | 0.250 | 2.50 | 2.17 | 87 | 75 - 121 | 2.09 | 84 | 4 | 20 |
| **Surrogate** | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | | 2480 | 99 | 2500 | 2690 | 108 | 62 - 127 | 2640 | 106 | | |
| 1868-53-7 | Dibromofluoromethane | | 2490 | 100 | 2500 | 2520 | 101 | 65 - 130 | 2520 | 101 | | |
| 2037-26-5 | Toluene d8 | | 2560 | 102 | 2500 | 2550 | 102 | 71 - 132 | 2500 | 100 | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | | 2430 | 97 | 2500 | 2400 | 96 | 62 - 125 | 2380 | 95 | | |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 540496 | **Client ID** | MB540496 | | | LCS540496 | | | LCSD540496 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1357039 | | | 1357040 | | | 1357041 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 09/06/2014 10:35 | | | 09/06/2014 08:51 | | | 09/06/2014 09:11 | | |
| | | **Matrix** | Solid | | | Solid | | | Solid | | |
| **EPA 8260B** | | **Units** | mg/kg | | **Spike** | **Result** | | **Control** | **Result** | | | **RPD** |
| | | **Result** | **RDL** | | **Added** | | **% R** | **Limits % R** | | **% R** | **RPD** | **Limit** |
| 67-64-1 | Acetone | ND | 1.25 | | 2.50 | 2.54 | 102 | 38 - 152 | 2.28 | 91 | 11 | 30 |
| 74-97-5 | Bromochloromethane | ND | 0.250 | | 2.50 | 2.42 | 97 | 73 - 127 | 2.48 | 99 | 2 | 30 |
| 75-27-4 | Bromodichloromethane | ND | 0.250 | | 2.50 | 2.37 | 95 | 74 - 126 | 2.26 | 90 | 5 | 30 |
| 75-25-2 | Bromoform | ND | 0.250 | | 2.50 | 2.06 | 82 | 67 - 122 | 2.03 | 81 | 1 | 30 |
| 74-83-9 | Bromomethane | ND | 0.250 | | 2.50 | 2.92 | 117 | 48 - 139 | 3.00 | 120 | 3 | 30 |
| 75-15-0 | Carbon disulfide | ND | 0.250 | | 2.50 | 2.43 | 97 | 68 - 133 | 2.44 | 98 | 0 | 30 |
| 56-23-5 | Carbon tetrachloride | ND | 0.250 | | 2.50 | 2.42 | 97 | 71 - 133 | 2.51 | 100 | 4 | 30 |
| 75-00-3 | Chloroethane | ND | 0.250 | | 2.50 | 2.42 | 97 | 57 - 144 | 2.41 | 96 | 0 | 30 |
| 136777-61-2 | m,p-Xylene | ND | 0.250 | | 5.00 | 4.63 | 93 | 72 - 128 | 4.48 | 90 | 3 | 30 |
| 67-66-3 | Chloroform | ND | 0.250 | | 2.50 | 2.21 | 88 | 74 - 124 | 2.42 | 97 | 9 | 30 |
| 74-87-3 | Chloromethane | ND | 0.250 | | 2.50 | 2.19 | 88 | 61 - 130 | 2.18 | 87 | 1 | 30 |
| 124-48-1 | Dibromochloromethane | ND | 0.250 | | 2.50 | 2.48 | 99 | 74 - 122 | 2.37 | 95 | 5 | 30 |
| 74-95-3 | Dibromomethane | ND | 0.250 | | 2.50 | 2.30 | 92 | 72 - 125 | 2.21 | 88 | 4 | 30 |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.250 | | 2.50 | 2.33 | 93 | 59 - 138 | 2.34 | 94 | 0 | 30 |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.250 | | 2.50 | 2.16 | 86 | 71 - 126 | 2.31 | 92 | 7 | 30 |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.250 | | 2.50 | 2.18 | 87 | 68 - 126 | 2.12 | 85 | 3 | 30 |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.250 | | 2.50 | 2.08 | 83 | 72 - 130 | 2.40 | 96 | 14 | 30 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.250 | | 2.50 | 2.53 | 101 | 67 - 134 | 2.28 | 91 | 10 | 30 |
| 75-09-2 | Methylene chloride | ND | 0.500 | | 2.50 | 2.41 | 96 | 66 - 130 | 2.19 | 88 | 10 | 30 |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.250 | | 2.50 | 2.14 | 86 | 72 - 129 | 2.10 | 84 | 2 | 30 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.250 | | 2.50 | 2.33 | 93 | 72 - 129 | 2.24 | 90 | 4 | 30 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.250 | | 2.50 | 2.30 | 92 | 72 - 126 | 2.21 | 88 | 4 | 30 |
| 100-41-4 | Ethylbenzene | ND | 0.250 | | 2.50 | 2.27 | 91 | 74 - 130 | 2.23 | 89 | 2 | 30 |
| 591-78-6 | 2-Hexanone | ND | 0.250 | | 2.50 | 1.73 | 69 | 47 - 137 | 1.73 | 69 | 0 | 30 |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 0.250 | | 2.50 | 2.36 | 94 | 74 - 125 | 2.26 | 90 | 4 | 30 |
| 78-93-3 | 2-Butanone | ND | 0.250 | | 2.50 | 1.55 | 62 | 47 - 142 | 1.66 | 66 | 7 | 30 |
| 74-88-4 | Methyl iodide | ND | 0.250 | | 2.50 | 3.00 | 120 | 54 - 140 | 2.94 | 118 | 2 | 30 |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.250 | | 2.50 | 1.74 | 70 | 52 - 136 | 1.69 | 68 | 3 | 30 |
| 103-65-1 | n-Propylbenzene | ND | 0.250 | | 2.50 | 2.06 | 82 | 73 - 137 | 2.06 | 82 | 0 | 30 |
| 100-42-5 | Styrene | ND | 0.250 | | 2.50 | 2.39 | 96 | 72 - 128 | 2.30 | 92 | 4 | 30 |
| 127-18-4 | Tetrachloroethene | ND | 0.250 | | 2.50 | 2.38 | 95 | 70 - 127 | 2.27 | 91 | 5 | 30 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.250 | | 2.50 | 2.44 | 98 | 77 - 122 | 2.32 | 93 | 5 | 30 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.250 | | 2.50 | 1.93 | 77 | 66 - 129 | 1.94 | 78 | 1 | 30 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 540496 | **Client ID** | MB540496 | | | LCS540496 | | | LCSD540496 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1357039 | | | 1357040 | | | 1357041 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 09/06/2014 10:35 | | | 09/06/2014 08:51 | | | 09/06/2014 09:11 | | |
| | | **Matrix** | Solid | | | Solid | | | Solid | | |
| **EPA 8260B** | | **Units** | mg/kg | | **Spike** | **Result** | | **Control** | **Result** | | | **RPD** |
| | | **Result** | **RDL** | | **Added** | | **% R** | **Limits % R** | | **% R** | **RPD** | **Limit** |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.250 | | 2.50 | 2.13 | 85 | 64 - 135 | 2.11 | 84 | 1 | 30 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.250 | | 2.50 | 2.28 | 91 | 70 - 130 | 2.34 | 94 | 3 | 30 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.250 | | 2.50 | 2.29 | 92 | 74 - 120 | 2.24 | 90 | 2 | 30 |
| 75-69-4 | Trichlorofluoromethane | ND | 0.250 | | 2.50 | 2.47 | 99 | 64 - 141 | 2.48 | 99 | 0 | 30 |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.250 | | 2.50 | 1.88 | 75 | 63 - 132 | 1.83 | 73 | 3 | 30 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.250 | | 2.50 | 2.09 | 84 | 75 - 130 | 2.07 | 83 | 1 | 30 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.250 | | 2.50 | 2.08 | 83 | 74 - 136 | 2.06 | 82 | 1 | 30 |
| 75-01-4 | Vinyl chloride | ND | 0.250 | | 2.50 | 2.21 | 88 | 67 - 131 | 2.20 | 88 | 1 | 30 |
| 95-47-6 | o-Xylene | ND | 0.250 | | 2.50 | 2.32 | 93 | 69 - 133 | 2.19 | 88 | 6 | 30 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.250 | | 2.50 | 1.95 | 78 | 60 - 123 | 1.93 | 77 | 1 | 30 |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.250 | | 2.50 | 2.21 | 88 | 74 - 122 | 2.13 | 85 | 4 | 30 |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 0.250 | | 2.50 | 2.52 | 101 | 69 - 126 | 2.21 | 88 | 13 | 30 |
| 99-87-6 | 4-Isopropyltoluene | ND | 0.250 | | 2.50 | 2.15 | 86 | 71 - 136 | 2.13 | 85 | 1 | 30 |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 0.500 | | 5.00 | 4.61 | 92 | 72 - 129 | 4.68 | 94 | 2 | 30 |
| 1330-20-7 | Xylene (total) | ND | 0.500 | | 7.50 | 6.94 | 93 | 71 - 129 | 6.67 | 89 | 4 | 30 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 0.250 | | 2.50 | 1.75 | 70 | 44 - 146 | 1.70 | 68 | 3 | 30 |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.250 | | 2.50 | 2.19 | 88 | 74 - 129 | 2.52 | 101 | 14 | 30 |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.250 | | 2.50 | 2.53 | 101 | 66 - 139 | 2.54 | 102 | 0 | 30 |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.250 | | 2.50 | 2.26 | 90 | 70 - 138 | 2.25 | 90 | 0 | 30 |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.250 | | 2.50 | 2.18 | 87 | 77 - 121 | 2.10 | 84 | 4 | 30 |
| 108-86-1 | Bromobenzene | ND | 0.250 | | 2.50 | 1.90 | 76 | 73 - 124 | 1.90 | 76 | 0 | 30 |
| 95-49-8 | 2-Chlorotoluene | ND | 0.250 | | 2.50 | 1.98 | 79 | 75 - 132 | 1.97 | 79 | 1 | 30 |
| 106-43-4 | 4-Chlorotoluene | ND | 0.250 | | 2.50 | 2.00 | 80 | 74 - 133 | 1.98 | 79 | 1 | 30 |
| 98-06-6 | tert-Butylbenzene | ND | 0.250 | | 2.50 | 2.02 | 81 | 72 - 136 | 2.02 | 81 | 0 | 30 |
| 135-98-8 | sec-Butylbenzene | ND | 0.250 | | 2.50 | 2.11 | 84 | 72 - 141 | 2.11 | 84 | 0 | 30 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.250 | | 2.50 | 2.22 | 89 | 77 - 127 | 2.15 | 86 | 3 | 30 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.250 | | 2.50 | 2.14 | 86 | 74 - 123 | 2.10 | 84 | 2 | 30 |
| 104-51-8 | n-Butylbenzene | ND | 0.250 | | 2.50 | 2.13 | 85 | 68 - 144 | 2.12 | 85 | 1 | 30 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.250 | | 2.50 | 2.18 | 87 | 76 - 125 | 2.12 | 85 | 3 | 30 |
| 87-68-3 | Hexachlorobutadiene | ND | 0.250 | | 2.50 | 2.07 | 83 | 71 - 140 | 2.07 | 83 | 0 | 30 |
| 91-20-3 | Naphthalene | ND | 0.250 | | 2.50 | 2.05 | 82 | 54 - 132 | 1.99 | 80 | 3 | 35 |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.250 | | 2.50 | 2.37 | 95 | 68 - 129 | 2.32 | 93 | 2 | 20 |
| 71-43-2 | Benzene | ND | 0.250 | | 2.50 | 2.21 | 88 | 73 - 128 | 2.16 | 86 | 2 | 20 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 540496 | **Client ID** | MB540496 | | | LCS540496 | | | LCSD540496 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1357039 | | | 1357040 | | | 1357041 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 09/06/2014 10:35 | | | 09/06/2014 08:51 | | | 09/06/2014 09:11 | | |
| | | **Matrix** | Solid | | | Solid | | | Solid | | |
| **EPA 8260B** | | **Units** | **Result** | mg/kg **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 79-01-6 | Trichloroethene | | ND | 0.250 | 2.50 | 2.40 | 96 | 78 - 127 | 2.32 | 93 | 3 | 20 |
| 108-88-3 | Toluene | | ND | 0.250 | 2.50 | 2.24 | 90 | 74 - 121 | 2.16 | 86 | 4 | 20 |
| 108-90-7 | Chlorobenzene | | ND | 0.250 | 2.50 | 2.26 | 90 | 75 - 121 | 2.19 | 88 | 3 | 20 |
| **Surrogate** | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | | 2460 | 98 | 2500 | 2610 | 104 | 62 - 127 | 2600 | 104 | | |
| 1868-53-7 | Dibromofluoromethane | | 2440 | 98 | 2500 | 2560 | 102 | 65 - 130 | 2660 | 106 | | |
| 2037-26-5 | Toluene d8 | | 2590 | 104 | 2500 | 2480 | 99 | 71 - 132 | 2430 | 97 | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | | 2400 | 96 | 2500 | 2400 | 96 | 62 - 125 | 2430 | 97 | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 540581 | **Client ID** | MB540581 | | | LCS540581 | | | LCSD540581 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1357322 | | | 1357323 | | | 1357324 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 09/08/2014 15:08 | | | 09/08/2014 14:00 | | | 09/08/2014 14:23 | | |
| | | **Matrix** | Solid | | | Solid | | | Solid | | |
| **EPA 8260B** | | **Units** | **Result** | mg/kg **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 67-64-1 | Acetone | | ND | 0.025 | 0.050 | 0.049 | 97 | 38 - 152 | 0.050 | 100 | 2 | 30 |
| 74-97-5 | Bromochloromethane | | ND | 0.00500 | 0.050 | 0.054 | 108 | 73 - 127 | 0.055 | 109 | 2 | 30 |
| 75-27-4 | Bromodichloromethane | | ND | 0.00500 | 0.050 | 0.053 | 105 | 74 - 126 | 0.052 | 105 | 2 | 30 |
| 75-25-2 | Bromoform | | ND | 0.00500 | 0.050 | 0.053 | 105 | 67 - 122 | 0.052 | 104 | 2 | 30 |
| 74-83-9 | Bromomethane | | ND | 0.00500 | 0.050 | 0.051 | 103 | 48 - 139 | 0.048 | 96 | 6 | 30 |
| 75-15-0 | Carbon disulfide | | ND | 0.00500 | 0.050 | 0.039 | 78 | 68 - 133 | 0.038 | 75 | 3 | 30 |
| 56-23-5 | Carbon tetrachloride | | ND | 0.00500 | 0.050 | 0.051 | 101 | 71 - 133 | 0.047 | 95 | 8 | 30 |
| 75-00-3 | Chloroethane | | ND | 0.00500 | 0.050 | 0.039 | 78 | 57 - 144 | 0.038 | 75 | 3 | 30 |
| 136777-61-2 | m,p-Xylene | | ND | 0.00500 | 0.100 | 0.109 | 109 | 72 - 128 | 0.105 | 105 | 4 | 30 |
| 67-66-3 | Chloroform | | ND | 0.00500 | 0.050 | 0.052 | 105 | 74 - 124 | 0.051 | 103 | 2 | 30 |
| 74-87-3 | Chloromethane | | ND | 0.00500 | 0.050 | 0.052 | 103 | 61 - 130 | 0.054 | 107 | 4 | 30 |
| 124-48-1 | Dibromochloromethane | | ND | 0.00500 | 0.050 | 0.054 | 107 | 74 - 122 | 0.054 | 108 | 0 | 30 |
| 74-95-3 | Dibromomethane | | ND | 0.00500 | 0.050 | 0.051 | 103 | 72 - 125 | 0.052 | 104 | 2 | 30 |
| 75-71-8 | Dichlorodifluoromethane | | ND | 0.00500 | 0.050 | 0.051 | 101 | 59 - 138 | 0.046 | 92 | 10 | 30 |
| 75-34-3 | 1,1-Dichloroethane | | ND | 0.00500 | 0.050 | 0.052 | 105 | 71 - 126 | 0.052 | 103 | 0 | 30 |
| 107-06-2 | 1,2-Dichloroethane | | ND | 0.00500 | 0.050 | 0.052 | 104 | 68 - 126 | 0.051 | 102 | 2 | 30 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 540581 | **Client ID** | MB540581 | | | LCS540581 | | | LCSD540581 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1357322 | | | 1357323 | | | 1357324 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 09/08/2014 15:08 | | | 09/08/2014 14:00 | | | 09/08/2014 14:23 | | |
| | | **Matrix** | Solid | | | Solid | | | Solid | | |
| **EPA 8260B** | | **Units** | **Result** | mg/kg **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 156-59-2 | cis-1,2-Dichloroethene | | ND | 0.00500 | 0.050 | 0.054 | 107 | 72 - 130 | 0.053 | 105 | 2 | 30 |
| 156-60-5 | trans-1,2-Dichloroethene | | ND | 0.00500 | 0.050 | 0.042 | 84 | 67 - 134 | 0.039 | 78 | 7 | 30 |
| 75-09-2 | Methylene chloride | | ND | 0.010 | 0.050 | 0.039 | 78 | 66 - 130 | 0.039 | 78 | 0 | 30 |
| 78-87-5 | 1,2-Dichloropropane | | ND | 0.00500 | 0.050 | 0.054 | 107 | 72 - 129 | 0.053 | 106 | 2 | 30 |
| 10061-01-5 | cis-1,3-Dichloropropene | | ND | 0.00500 | 0.050 | 0.057 | 114 | 72 - 129 | 0.057 | 113 | 0 | 30 |
| 10061-02-6 | trans-1,3-Dichloropropene | | ND | 0.00500 | 0.050 | 0.056 | 111 | 72 - 126 | 0.055 | 111 | 2 | 30 |
| 100-41-4 | Ethylbenzene | | ND | 0.00500 | 0.050 | 0.053 | 106 | 74 - 130 | 0.051 | 101 | 4 | 30 |
| 591-78-6 | 2-Hexanone | | ND | 0.00500 | 0.050 | 0.059 | 117 | 47 - 137 | 0.059 | 117 | 0 | 30 |
| 98-82-8 | Isopropylbenzene (Cumene) | | ND | 0.00500 | 0.050 | 0.056 | 111 | 74 - 125 | 0.053 | 106 | 6 | 30 |
| 78-93-3 | 2-Butanone | | ND | 0.00500 | 0.050 | 0.058 | 117 | 47 - 142 | 0.058 | 116 | 0 | 30 |
| 74-88-4 | Methyl iodide | | ND | 0.00500 | 0.050 | 0.045 | 90 | 54 - 140 | 0.042 | 84 | 7 | 30 |
| 108-10-1 | 4-Methyl-2-pentanone | | ND | 0.00500 | 0.050 | 0.055 | 109 | 52 - 136 | 0.055 | 109 | 0 | 30 |
| 103-65-1 | n-Propylbenzene | | ND | 0.00500 | 0.050 | 0.053 | 106 | 73 - 137 | 0.050 | 100 | 6 | 30 |
| 100-42-5 | Styrene | | ND | 0.00500 | 0.050 | 0.057 | 113 | 72 - 128 | 0.056 | 112 | 2 | 30 |
| 127-18-4 | Tetrachloroethene | | ND | 0.00500 | 0.050 | 0.049 | 99 | 70 - 127 | 0.047 | 94 | 4 | 30 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | | ND | 0.00500 | 0.050 | 0.053 | 105 | 77 - 122 | 0.052 | 104 | 2 | 30 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | ND | 0.00500 | 0.050 | 0.052 | 104 | 66 - 129 | 0.051 | 103 | 2 | 30 |
| 120-82-1 | 1,2,4-Trichlorobenzene | | ND | 0.00500 | 0.050 | 0.055 | 109 | 64 - 135 | 0.054 | 108 | 2 | 30 |
| 71-55-6 | 1,1,1-Trichloroethane | | ND | 0.00500 | 0.050 | 0.051 | 102 | 70 - 130 | 0.048 | 96 | 6 | 30 |
| 79-00-5 | 1,1,2-Trichloroethane | | ND | 0.00500 | 0.050 | 0.052 | 104 | 74 - 120 | 0.052 | 104 | 0 | 30 |
| 75-69-4 | Trichlorofluoromethane | | ND | 0.00500 | 0.050 | 0.045 | 89 | 64 - 141 | 0.041 | 82 | 9 | 30 |
| 96-18-4 | 1,2,3-Trichloropropane | | ND | 0.00500 | 0.050 | 0.050 | 101 | 63 - 132 | 0.050 | 99 | 0 | 30 |
| 95-63-6 | 1,2,4-Trimethylbenzene | | ND | 0.00500 | 0.050 | 0.055 | 109 | 75 - 130 | 0.053 | 105 | 4 | 30 |
| 108-67-8 | 1,3,5-Trimethylbenzene | | ND | 0.00500 | 0.050 | 0.054 | 109 | 74 - 136 | 0.052 | 104 | 4 | 30 |
| 75-01-4 | Vinyl chloride | | ND | 0.00500 | 0.050 | 0.051 | 103 | 67 - 131 | 0.047 | 94 | 8 | 30 |
| 95-47-6 | o-Xylene | | ND | 0.00500 | 0.050 | 0.057 | 114 | 69 - 133 | 0.057 | 113 | 0 | 30 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | ND | 0.00500 | 0.050 | 0.054 | 108 | 60 - 123 | 0.053 | 107 | 2 | 30 |
| 106-93-4 | 1,2-Dibromoethane | | ND | 0.00500 | 0.050 | 0.053 | 107 | 74 - 122 | 0.054 | 108 | 2 | 30 |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | | ND | 0.00500 | 0.050 | 0.043 | 87 | 69 - 126 | 0.044 | 87 | 2 | 30 |
| 99-87-6 | 4-Isopropyltoluene | | ND | 0.00500 | 0.050 | 0.055 | 111 | 71 - 136 | 0.052 | 104 | 6 | 30 |
| 540-59-0 | 1,2-Dichloroethene(Total) | | ND | 0.010 | 0.100 | 0.096 | 96 | 72 - 129 | 0.092 | 92 | 4 | 30 |
| 1330-20-7 | Xylene (total) | | ND | 0.010 | 0.150 | 0.166 | 111 | 71 - 129 | 0.162 | 108 | 2 | 30 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | | ND | 0.00500 | 0.050 | 0.056 | 112 | 44 - 146 | 0.055 | 111 | 2 | 30 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 540581 | **Client ID** | MB540581 | | | LCS540581 | | | LCSD540581 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1357322 | | | 1357323 | | | 1357324 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 09/08/2014 15:08 | | | 09/08/2014 14:00 | | | 09/08/2014 14:23 | | |
| | | **Matrix** | Solid | | | Solid | | | Solid | | |
| **EPA 8260B** | | **Units** | mg/kg | | | | | | | | |
| | | **Result** | **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.00500 | 0.050 | 0.054 | 107 | 74 - 129 | 0.050 | 100 | 8 | 30 |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.00500 | 0.050 | 0.042 | 83 | 66 - 139 | 0.037 | 74 | 13 | 30 |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.00500 | 0.050 | 0.054 | 108 | 70 - 138 | 0.050 | 100 | 8 | 30 |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.00500 | 0.050 | 0.053 | 106 | 77 - 121 | 0.054 | 108 | 2 | 30 |
| 108-86-1 | Bromobenzene | ND | 0.00500 | 0.050 | 0.051 | 103 | 73 - 124 | 0.050 | 100 | 2 | 30 |
| 95-49-8 | 2-Chlorotoluene | ND | 0.00500 | 0.050 | 0.053 | 106 | 75 - 132 | 0.051 | 102 | 4 | 30 |
| 106-43-4 | 4-Chlorotoluene | ND | 0.00500 | 0.050 | 0.053 | 106 | 74 - 133 | 0.051 | 103 | 4 | 30 |
| 98-06-6 | tert-Butylbenzene | ND | 0.00500 | 0.050 | 0.054 | 108 | 72 - 136 | 0.051 | 102 | 6 | 30 |
| 135-98-8 | sec-Butylbenzene | ND | 0.00500 | 0.050 | 0.054 | 108 | 72 - 141 | 0.050 | 101 | 8 | 30 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.00500 | 0.050 | 0.052 | 105 | 77 - 127 | 0.051 | 102 | 2 | 30 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.00500 | 0.050 | 0.052 | 103 | 74 - 123 | 0.050 | 100 | 4 | 30 |
| 104-51-8 | n-Butylbenzene | ND | 0.00500 | 0.050 | 0.054 | 109 | 68 - 144 | 0.051 | 102 | 6 | 30 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.00500 | 0.050 | 0.053 | 105 | 76 - 125 | 0.052 | 104 | 2 | 30 |
| 87-68-3 | Hexachlorobutadiene | ND | 0.00500 | 0.050 | 0.051 | 103 | 71 - 140 | 0.049 | 97 | 4 | 30 |
| 91-20-3 | Naphthalene | ND | 0.00500 | 0.050 | 0.055 | 110 | 54 - 132 | 0.056 | 112 | 2 | 35 |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.00500 | 0.050 | 0.042 | 84 | 68 - 129 | 0.039 | 78 | 7 | 20 |
| 71-43-2 | Benzene | ND | 0.00500 | 0.050 | 0.054 | 108 | 73 - 128 | 0.052 | 104 | 4 | 20 |
| 79-01-6 | Trichloroethene | ND | 0.00500 | 0.050 | 0.053 | 106 | 78 - 127 | 0.050 | 101 | 6 | 20 |
| 108-88-3 | Toluene | ND | 0.00500 | 0.050 | 0.052 | 103 | 74 - 121 | 0.050 | 100 | 4 | 20 |
| 108-90-7 | Chlorobenzene | ND | 0.00500 | 0.050 | 0.052 | 104 | 75 - 121 | 0.051 | 103 | 2 | 20 |
| **Surrogate** | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 50.3 | 101 | 50 | 49.3 | 99 | 62 - 127 | 49.7 | 99 | | |
| 1868-53-7 | Dibromofluoromethane | 51.8 | 104 | 50 | 50.2 | 100 | 65 - 130 | 50 | 100 | | |
| 2037-26-5 | Toluene d8 | 51.2 | 102 | 50 | 50 | 100 | 71 - 132 | 49.9 | 100 | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 52.5 | 105 | 50 | 49.7 | 99 | 62 - 125 | 49.6 | 99 | | |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 540605 | **Client ID** | MB540605 | | | LCS540605 | | | LCSD540605 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1357423 | | | 1357424 | | | 1357425 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 09/08/2014 16:07 | | | 09/08/2014 14:08 | | | 09/08/2014 14:28 | | |
| | | **Matrix** | Solid | | | Solid | | | Solid | | |
| **EPA 8260B** | | **Units** | **Result** | mg/kg **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 67-64-1 | Acetone | | ND | 1.25 | 2.50 | 2.20 | 88 | 38 - 152 | 2.29 | 92 | 4 | 30 |
| 74-97-5 | Bromochloromethane | | ND | 0.250 | 2.50 | 2.49 | 100 | 73 - 127 | 2.54 | 102 | 2 | 30 |
| 75-27-4 | Bromodichloromethane | | ND | 0.250 | 2.50 | 2.34 | 94 | 74 - 126 | 2.36 | 94 | 1 | 30 |
| 75-25-2 | Bromoform | | ND | 0.250 | 2.50 | 2.31 | 92 | 67 - 122 | 2.36 | 94 | 2 | 30 |
| 74-83-9 | Bromomethane | | ND | 0.250 | 2.50 | 2.38 | 95 | 48 - 139 | 2.33 | 93 | 2 | 30 |
| 75-15-0 | Carbon disulfide | | ND | 0.250 | 2.50 | 2.40 | 96 | 68 - 133 | 2.36 | 94 | 2 | 30 |
| 56-23-5 | Carbon tetrachloride | | ND | 0.250 | 2.50 | 2.27 | 91 | 71 - 133 | 2.18 | 87 | 4 | 30 |
| 75-00-3 | Chloroethane | | ND | 0.250 | 2.50 | 2.39 | 96 | 57 - 144 | 2.40 | 96 | 0 | 30 |
| 136777-61-2 | m,p-Xylene | | ND | 0.250 | 5.00 | 4.60 | 92 | 72 - 128 | 4.65 | 93 | 1 | 30 |
| 67-66-3 | Chloroform | | ND | 0.250 | 2.50 | 2.55 | 102 | 74 - 124 | 2.55 | 102 | 0 | 30 |
| 74-87-3 | Chloromethane | | ND | 0.250 | 2.50 | 2.39 | 96 | 61 - 130 | 2.45 | 98 | 2 | 30 |
| 124-48-1 | Dibromochloromethane | | ND | 0.250 | 2.50 | 2.48 | 99 | 74 - 122 | 2.55 | 102 | 3 | 30 |
| 74-95-3 | Dibromomethane | | ND | 0.250 | 2.50 | 2.49 | 100 | 72 - 125 | 2.50 | 100 | 0 | 30 |
| 75-71-8 | Dichlorodifluoromethane | | ND | 0.250 | 2.50 | 2.24 | 90 | 59 - 138 | 2.27 | 91 | 1 | 30 |
| 75-34-3 | 1,1-Dichloroethane | | ND | 0.250 | 2.50 | 2.44 | 98 | 71 - 126 | 2.46 | 98 | 1 | 30 |
| 107-06-2 | 1,2-Dichloroethane | | ND | 0.250 | 2.50 | 2.49 | 100 | 68 - 126 | 2.51 | 100 | 1 | 30 |
| 156-59-2 | cis-1,2-Dichloroethene | | ND | 0.250 | 2.50 | 2.50 | 100 | 72 - 130 | 2.47 | 99 | 1 | 30 |
| 156-60-5 | trans-1,2-Dichloroethene | | ND | 0.250 | 2.50 | 2.42 | 97 | 67 - 134 | 2.39 | 96 | 1 | 30 |
| 75-09-2 | Methylene chloride | | ND | 0.500 | 2.50 | 2.37 | 95 | 66 - 130 | 2.37 | 95 | 0 | 30 |
| 78-87-5 | 1,2-Dichloropropane | | ND | 0.250 | 2.50 | 2.50 | 100 | 72 - 129 | 2.52 | 101 | 1 | 30 |
| 10061-01-5 | cis-1,3-Dichloropropene | | ND | 0.250 | 2.50 | 2.32 | 93 | 72 - 129 | 2.33 | 93 | 0 | 30 |
| 10061-02-6 | trans-1,3-Dichloropropene | | ND | 0.250 | 2.50 | 2.32 | 93 | 72 - 126 | 2.33 | 93 | 0 | 30 |
| 100-41-4 | Ethylbenzene | | ND | 0.250 | 2.50 | 2.30 | 92 | 74 - 130 | 2.30 | 92 | 0 | 30 |
| 591-78-6 | 2-Hexanone | | ND | 0.250 | 2.50 | 2.27 | 91 | 47 - 137 | 2.34 | 94 | 3 | 30 |
| 98-82-8 | Isopropylbenzene (Cumene) | | ND | 0.250 | 2.50 | 2.27 | 91 | 74 - 125 | 2.27 | 91 | 0 | 30 |
| 78-93-3 | 2-Butanone | | ND | 0.250 | 2.50 | 2.43 | 97 | 47 - 142 | 2.42 | 97 | 0 | 30 |
| 74-88-4 | Methyl iodide | | ND | 0.250 | 2.50 | 2.22 | 89 | 54 - 140 | 1.95 | 78 | 13 | 30 |
| 108-10-1 | 4-Methyl-2-pentanone | | ND | 0.250 | 2.50 | 2.33 | 93 | 52 - 136 | 2.42 | 97 | 4 | 30 |
| 103-65-1 | n-Propylbenzene | | ND | 0.250 | 2.50 | 2.28 | 91 | 73 - 137 | 2.26 | 90 | 1 | 30 |
| 100-42-5 | Styrene | | ND | 0.250 | 2.50 | 2.27 | 91 | 72 - 128 | 2.30 | 92 | 1 | 30 |
| 127-18-4 | Tetrachloroethene | | ND | 0.250 | 2.50 | 2.39 | 96 | 70 - 127 | 2.36 | 94 | 1 | 30 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | | ND | 0.250 | 2.50 | 2.40 | 96 | 77 - 122 | 2.44 | 98 | 2 | 30 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | ND | 0.250 | 2.50 | 2.40 | 96 | 66 - 129 | 2.41 | 96 | 0 | 30 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 540605 | **Client ID** | MB540605 | | | LCS540605 | | | LCSD540605 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1357423 | | | 1357424 | | | 1357425 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 09/08/2014 16:07 | | | 09/08/2014 14:08 | | | 09/08/2014 14:28 | | |
| | | **Matrix** | Solid | | | Solid | | | Solid | | |
| **EPA 8260B** | | **Units** | **Result** | mg/kg **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 120-82-1 | 1,2,4-Trichlorobenzene | | ND | 0.250 | 2.50 | 2.62 | 105 | 64 - 135 | 2.63 | 105 | 0 | 30 |
| 71-55-6 | 1,1,1-Trichloroethane | | ND | 0.250 | 2.50 | 2.39 | 96 | 70 - 130 | 2.35 | 94 | 2 | 30 |
| 79-00-5 | 1,1,2-Trichloroethane | | ND | 0.250 | 2.50 | 2.46 | 98 | 74 - 120 | 2.46 | 98 | 0 | 30 |
| 75-69-4 | Trichlorofluoromethane | | ND | 0.250 | 2.50 | 2.32 | 93 | 64 - 141 | 2.29 | 92 | 1 | 30 |
| 96-18-4 | 1,2,3-Trichloropropane | | ND | 0.250 | 2.50 | 2.44 | 98 | 63 - 132 | 2.45 | 98 | 0 | 30 |
| 95-63-6 | 1,2,4-Trimethylbenzene | | ND | 0.250 | 2.50 | 2.35 | 94 | 75 - 130 | 2.33 | 93 | 1 | 30 |
| 108-67-8 | 1,3,5-Trimethylbenzene | | ND | 0.250 | 2.50 | 2.32 | 93 | 74 - 136 | 2.32 | 93 | 0 | 30 |
| 75-01-4 | Vinyl chloride | | ND | 0.250 | 2.50 | 2.40 | 96 | 67 - 131 | 2.36 | 94 | 2 | 30 |
| 95-47-6 | o-Xylene | | ND | 0.250 | 2.50 | 2.29 | 92 | 69 - 133 | 2.28 | 91 | 0 | 30 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | ND | 0.250 | 2.50 | 2.33 | 93 | 60 - 123 | 2.38 | 95 | 2 | 30 |
| 106-93-4 | 1,2-Dibromoethane | | ND | 0.250 | 2.50 | 2.35 | 94 | 74 - 122 | 2.38 | 95 | 1 | 30 |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | | ND | 0.250 | 2.50 | 2.60 | 104 | 69 - 126 | 2.64 | 106 | 2 | 30 |
| 99-87-6 | 4-Isopropyltoluene | | ND | 0.250 | 2.50 | 2.29 | 92 | 71 - 136 | 2.27 | 91 | 1 | 30 |
| 540-59-0 | 1,2-Dichloroethene(Total) | | ND | 0.500 | 5.00 | 4.92 | 98 | 72 - 129 | 4.85 | 97 | 1 | 30 |
| 1330-20-7 | Xylene (total) | | ND | 0.500 | 7.50 | 6.89 | 92 | 71 - 129 | 6.93 | 92 | 1 | 30 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | | ND | 0.250 | 2.50 | 2.60 | 104 | 44 - 146 | 2.59 | 104 | 0 | 30 |
| 594-20-7 | 2,2-Dichloropropane | | ND | 0.250 | 2.50 | 2.36 | 94 | 74 - 129 | 2.28 | 91 | 3 | 30 |
| 76-13-1 | Trichlorotrifluoroethane | | ND | 0.250 | 2.50 | 2.13 | 85 | 66 - 139 | 2.15 | 86 | 1 | 30 |
| 563-58-6 | 1,1-Dichloropropene | | ND | 0.250 | 2.50 | 2.26 | 90 | 70 - 138 | 2.20 | 88 | 3 | 30 |
| 142-28-9 | 1,3-Dichloropropane | | ND | 0.250 | 2.50 | 2.47 | 99 | 77 - 121 | 2.54 | 102 | 3 | 30 |
| 108-86-1 | Bromobenzene | | ND | 0.250 | 2.50 | 2.50 | 100 | 73 - 124 | 2.49 | 100 | 0 | 30 |
| 95-49-8 | 2-Chlorotoluene | | ND | 0.250 | 2.50 | 2.88 | 115 | 75 - 132 | 2.88 | 115 | 0 | 30 |
| 106-43-4 | 4-Chlorotoluene | | ND | 0.250 | 2.50 | 2.36 | 94 | 74 - 133 | 2.33 | 93 | 1 | 30 |
| 98-06-6 | tert-Butylbenzene | | ND | 0.250 | 2.50 | 2.28 | 91 | 72 - 136 | 2.25 | 90 | 1 | 30 |
| 135-98-8 | sec-Butylbenzene | | ND | 0.250 | 2.50 | 2.27 | 91 | 72 - 141 | 2.25 | 90 | 1 | 30 |
| 541-73-1 | 1,3-Dichlorobenzene | | ND | 0.250 | 2.50 | 2.54 | 102 | 77 - 127 | 2.55 | 102 | 0 | 30 |
| 106-46-7 | 1,4-Dichlorobenzene | | ND | 0.250 | 2.50 | 2.43 | 97 | 74 - 123 | 2.43 | 97 | 0 | 30 |
| 104-51-8 | n-Butylbenzene | | ND | 0.250 | 2.50 | 2.28 | 91 | 68 - 144 | 2.26 | 90 | 1 | 30 |
| 95-50-1 | 1,2-Dichlorobenzene | | ND | 0.250 | 2.50 | 2.50 | 100 | 76 - 125 | 2.54 | 102 | 2 | 30 |
| 87-68-3 | Hexachlorobutadiene | | ND | 0.250 | 2.50 | 2.46 | 98 | 71 - 140 | 2.46 | 98 | 0 | 30 |
| 91-20-3 | Naphthalene | | ND | 0.250 | 2.50 | 2.31 | 92 | 54 - 132 | 2.37 | 95 | 3 | 35 |
| 75-35-4 | 1,1-Dichloroethene | | ND | 0.250 | 2.50 | 2.32 | 93 | 68 - 129 | 2.31 | 92 | 0 | 20 |
| 71-43-2 | Benzene | | ND | 0.250 | 2.50 | 2.50 | 100 | 73 - 128 | 2.50 | 100 | 0 | 20 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 540605 | **Client ID** | MB540605 | | | LCS540605 | | | LCSD540605 | | | |
| **Prep Batch** | N/A | **GCAL ID** | 1357423 | | | 1357424 | | | 1357425 | | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | | |
| | | **Analytical Date** | 09/08/2014 16:07 | | | 09/08/2014 14:08 | | | 09/08/2014 14:28 | | | |
| | | **Matrix** | Solid | | | Solid | | | Solid | | | |
| **EPA 8260B** | | **Units** | **Result** | mg/kg **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 79-01-6 | Trichloroethene | | ND | 0.250 | 2.50 | 2.49 | 100 | 78 - 127 | 2.50 | 100 | 0 | 20 |
| 108-88-3 | Toluene | | ND | 0.250 | 2.50 | 2.38 | 95 | 74 - 121 | 2.35 | 94 | 1 | 20 |
| 108-90-7 | Chlorobenzene | | ND | 0.250 | 2.50 | 2.42 | 97 | 75 - 121 | 2.42 | 97 | 0 | 20 |
| **Surrogate** | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | | 2420 | 97 | 2500 | 2520 | 101 | 62 - 127 | 2490 | 100 | | |
| 1868-53-7 | Dibromofluoromethane | | 2420 | 97 | 2500 | 2520 | 101 | 65 - 130 | 2540 | 102 | | |
| 2037-26-5 | Toluene d8 | | 2640 | 106 | 2500 | 2450 | 98 | 71 - 132 | 2460 | 98 | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | | 2520 | 101 | 2500 | 2510 | 100 | 62 - 125 | 2520 | 101 | | |

# GCAL ANALYTICAL LABORATORIES, LLC

# CHAIN OF CUSTODY RECORD

7979 Innovation Park Dr., Baton Rouge, LA 70820-7402
Phone: 225.769.4900 • Fax: 225.767.5717 • www.gcal.com

**Client ID:** 4642 - Sage Environmental
**SDG:** 214083017
**Due Date:** 09/03/14

**Report to:**
Client: SAGE Environmental Consulting
Address: 600 Chastain Rd, Ste 320
Kennesaw, GA 30144
Contact: Jack Wintle
Phone: 678-431-0130
E-mail: Jack.wintle@sageenvironmental.com

**Bill to:**
Client: SAME
Address:
Contact:
Phone:
Email:

P.O. Number: 1221-1-3
Project Name/Number: Rayloc Delineation
Sampled By: Matthew R Howe

Analytical Requests & Method: EPA Method 8260B; MeHSO4 CH3OH; HCL MRH

GCAL use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 4.7 E22

☐ Dissolved Analysis Requested
☐ Field filtered
☐ Lab filtered

| Matrix[1] | Date | Time (2400) | Comp | Grab | Sample Description | No Containers | EPA Method 8260B | Preservative |
|---|---|---|---|---|---|---|---|---|
| S | 8/28/14 | 1400 | | X | WD-1 @ 5' | 4 | X | 1 |
| | | 1400 | | | WD-1 @ 20' | | | 2 |
| | | 1459 | | | WD-2 @ 10' | | | 3 |
| | | 1459 | | | WD-2 @ 20' | | | 4 |
| | | 1200 | | | WD-3 @ 5' | | | 5 |
| | | 1200 | | | WD-3 @ 20' | | | 6 |
| | | 1617 | | | WD-4 @ 10' | | | 7 |
| | | 1617 | | | WD-4 @ 20' | | | 8 |
| | | 1545 | | | WD-5 @ 5' | | | 9 |
| | | 1545 | | | WD-5 @ 30' | | | 10 |
| | | 1015 | | | WD-6 @ 5' | | | 11 |
| | | 1015 | | | WD-6 @ 30' | | | 12 |

Air Bill No: 7709 9060 8473

Turn Around Time (Business Days): ☐ 24h* ☐ 48h* ☐ 3 days* ☐ 1 week* ☐ Standard (Per Contract/Quote)

| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Date: | Time: |
|---|---|---|---|---|---|
| Matthew R Howe | 8/29/14 | 1007 | Brad Lucum | 8/29/14 | 1007 |
| Jodie | 8/30/14 | 930 | [illegible] | 8/30/14 | 930 |
| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Date: | Time: |

Note: Some PID readings were very high!

By submitting these samples, you agree to GCAL's terms and conditions contained in our most recent schedule of services.



Matrix[1]: W = water, S = solid, L = liquid, T = tissue

*Requires prior approval, rush charges may apply.

We cannot accept verbal changes. Please email written changes to your PM.

WHITE: CLIENT FINAL REPORT - CANARY: CLIENT

# GCAL ANALYTICAL LABORATORIES, LLC

# CHAIN OF CUSTODY RECORD

7979 Innovation Park Dr., Baton Rouge, LA 70820-7402
Phone: 225.769.4900 • Fax: 225.767.5717 • www.gcal.com

**Client ID:** 4642 - Sage Environmental
**SDG:** 214083017
**Due Date:** 09/03/14

**Report to:**
Client: SAGE Environmental Consulting
Address: 600 Chastain Rd, Ste 320
Kennesaw, GA 30144
Contact: Jack Wintle
Phone: 678-431-0130
E-mail: Jack.wintle@sageenvironmental.com

**Bill to:**
Client: SAME
Address:
Contact:
Phone:
Email:

P.O. Number: 1221-1-3
Project Name/Number: Rayloc Delineation
Sampled By: Matthew R. Howe

Analytical Requests & Method: EPA Method 8260B

GCAL use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

☐ Dissolved Analysis Requested
☐ Field filtered
☐ Lab filtered

| Matrix[1] | Date | Time (2400) | Comp | Grab | Sample Description | No Containers | Methyl Chloride | HCL | Preservative |
|---|---|---|---|---|---|---|---|---|---|
| S | 8/28/14 | 1100 | | X | WD-7@ 5 | 4 | X | | 13 |
| ↓ | ↓ | 1100 | | ↓ | WD-7@ 20 | ↓ | ↓ | | 14 |
| W | — | — | — | — | Trip Blank | 3 MRH | | X | 15 |

Air Bill No:

Turn Around Time (Business Days): ☐ 24h* ☐ 48h* ☐ 3 days* ☐ 1 week* ☒ Standard (Per Contract/Quote)

| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Date: | Time: |
|---|---|---|---|---|---|
| Matthew R. Howe | 8/29/14 | 1007 | [illegible] | 8/29/14 | 1007 |
| [illegible] | 8/30/14 | 930 | [illegible] | 8/30/14 | 930 |
| | | | | | |

Note: Some PID readings were very high!

By submitting these samples, you agree to GCAL's terms and conditions contained in our most recent schedule of services.

Page 2 of 2

Matrix[1]: W = water, S = solid, L = liquid, T = tissue

*Requires prior approval, rush charges may apply.

We cannot accept verbal changes. Please email written changes to your PM.

WHITE: CLIENT FINAL REPORT - CANARY: CLIENT

GCAL ANALYTICAL LABORATORIES, LLC

# SAMPLE RECEIVING CHECKLIST

*214083017*

## SAMPLE DELIVERY GROUP 214083017

| | |
|---|---|
| **Client**<br>4642 - Sage Environmental | **Transport Method**<br>FEDEX |
| **Profile Number**<br>240745 | **Received By**<br>Saucier, Charlotte M. |
| **Line Item(s)**<br>1 - VOC<br>2 - Soils | **Receive Date(s)**<br>08/30/14 |

| CHECKLIST | YES | NO | NA |
|---|---|---|---|
| Were all samples received using proper thermal preservation? | ✓ | | |
| When used, were all custody seals intact? | ✓ | | |
| Were all samples received in proper containers? | ✓ | | |
| Were all samples received using proper chemical preservation? | ✓ | | |
| Was preservative added to any container at the lab? | | ✓ | |
| Were all containers received in good condition? | ✓ | | |
| Were all VOA vials received with no head space? | ✓ | | |
| Do all sample labels match the Chain of Custody? | ✓ | | |
| Did the Chain of Custody list the sampling technician? | ✓ | | |
| Was the COC maintained i.e. all signatures, dates and time of receipt included? | | ✓ | |

## COOLERS

| Airbill | Thermometer ID: E22 | Temp(°C) |
|---|---|---|
| 7709 9060 8473 | | 4.7 |

## DISCREPANCIES

None

## LAB PRESERVATIONS

None

## NOTES

# APPENDIX B

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | |
|---|---|
| SITE NAME: RAYLOC | SITE LOCATION: Creek |

| | | |
|---|---|---|
| WELL NO: MW-7 | SAMPLE ID: MW-7 @ 30' | DATE: 12/19/13 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 35 | STATIC DEPTH TO WATER (ft): 25.92 | WELL CAPACITY (gal/ft): .16 |

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658

| | | | |
|---|---|---|---|
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 12:34 | PURGE ENDED AT: 12:59 | TOTAL VOL PURGED (gal): ~1/2 |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | TEMP. (°c) | pH | ORP (millivolts) | COND. (µS/m) | TURB. (NTUs) | DO (mg/L) | TDS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:43 | 1/8 | 1/8 | — | 25.89 | 67.71 | 5.42 | 167.0 | .001 | — | 2.68 | — |
| 12:46 | 1/8 | 1/4 | — | 25.89 | 64.89 | 5.22 | 180.3 | 0.275 | — | 1.79 | — |
| 12:49 | 1/8 | 3/8 | — | 25.89 | 63.98 | 5.20 | 188.8 | .274 | — | 1.49 | — |
| 12:52 | 1/8 | 1/2 | — | 25.89 | 63.97 | 5.16 | 198.7 | .269 | — | 1.38 | — |
| 12:55 | 1/8 | 5/8 | — | 25.89 | 64.29 | 5.12 | 202.5 | .264 | — | 1.19 | — |
| 12:59 | 1/8 | 1/2 | — | | 64.25 | 5.10 | 203.9 | .262 | — | 1.04 | — |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | Sampled | | | @ | 12:59 | | | | |
| | | | | | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

| | |
|---|---|
| Pump Type: QED MicroPurge | Tubing Type: PE |

## SAMPLING DATA

| | |
|---|---|
| SAMPLED BY (PRINT): Damian Mason | SAMPLER(S) SIGNATURE(S): D. Mason |

| | | |
|---|---|---|
| SAMPLING METHOD(S): | SAMPLING INITIATED AT: 12:59 | SAMPLING ENDED AT: 12:59 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| | | | HCL | |
| | | | | |
| | | | | |
| | | | | |

**Groundwater Parameter Tolerances (if possible):**

Turbidity: <10 NTUs
Temperature: +/- 5 °F
pH: +/- 0.2 Units
ORP: +/- 20 millivolts

DO: +/- 0.2 mg/l or +/- 10%
Specific Conductance: +/- 3%
Drawdown: no more than 25% of screened interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**REMARKS:** No Turb measurement because we didn't have a meter

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: RAYLOC | | SITE LOCATION: Rail Road |
| WELL NO: MW-12 | SAMPLE ID: MW-12 @ 60' | DATE: 12/19/13 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2" | TOTAL WELL DEPTH (ft): 60 | STATIC DEPTH TO WATER (ft): 25.11 | WELL CAPACITY (gal/ft): .16 |

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658

| | | | |
|---|---|---|---|
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 8:27 | PURGE ENDED AT: 8:51 | TOTAL VOL PURGED (gal): ~ 3/8 |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | TEMP. (°c) | pH | ORP (millivolts) | COND. (µS/m) | TURB. (NTUs) | DO (mg/L) | TDS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8:36 | L/4 | L/4 | — | 25.11 | 45.20 | 4.84 | 244.7 | .041 | — | 5.11 | — |
| 8:40 | L/4 | L/4 | — | 25.16 | 54.99 | 5.27 | 226.2 | .074 | — | 4.28 | — |
| 8:43 | L/4 | L/4 | — | 25.16 | 55.58 | 5.28 | 233.4 | .075 | — | 3.97 | — |
| 8:46 | L/4 | 2 1/4 | — | 25.16 | 56.85 | 5.26 | 242.3 | .075 | — | 3.81 | — |
| 8:51 | L/4 | L 3/4 | — | 25.16 | 56.49 | 5.24 | 247.7 | .075 | — | 3.73 | — |
| | | | | | | | | | — | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Sampled @ 8:51

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: QEP MicroPurge Tubing Type: PE

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Damian Mason | | SAMPLER(S) SIGNATURE(S): D. Mason |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 8:51 | SAMPLING ENDED AT: 8:51 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| 1 | 1 | 1 | HCL | |
| | | | | |
| | | | | |
| | | | | |

**Groundwater Parameter Tolerances (if possible):**

Turbidity: <10 NTUs
Temperature: +/- 5 °F
pH: +/- 0.2 Units
ORP: +/- 20 millivolts

DO: +/- 0.2 mg/l or +/- 10%
Specific Conductance: +/- 3%
Drawdown: no more than 25% of screened interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**REMARKS:**
Turb. meter is out

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: RAYLOC | | SITE LOCATION: Creek |
| WELL NO: MW-15 | SAMPLE ID: MW-15 @ 30' | DATE: 12/19/13 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 40 | STATIC DEPTH TO WATER (ft): 7.12 | WELL CAPACITY (gal/ft): .16 |

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658

| | | | |
|---|---|---|---|
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 2:29 | PURGE ENDED AT: 2:52 | TOTAL VOL PURGED (gal): 1.75 |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | TEMP. (°c) | pH | ORP (millivolts) | COND. (µS/m) | TURB. (NTUs) | DO (mg/L) | TDS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2:32 | 1/4 | 1/4 | — | 7.19 | 63.43 | 5.43 | 282.7 | .001 | — | 3.00 | — |
| 2:36 | 1/4 | 1/2 | — | 7.19 | 62.51 | 5.03 | 244.8 | .047 | — | 2.37 | — |
| 2:40 | 1/4 | 3/4 | — | 7.19 | 62.38 | 4.99 | 267.6 | .046 | — | 2.31 | — |
| 2:43 | 1/4 | 1 | — | 7.19 | 62.58 | 4.98 | 289.3 | .046 | — | 2.17 | — |
| 2:46 | 1/4 | 1 1/4 | — | | 62.82 | 4.97 | 302.5 | .046 | — | 2.04 | — |
| 2:49 | 1/4 | 1 1/2 | — | | 62.82 | 4.97 | 307.8 | .046 | — | 2.00 | — |
| 2:52 | 1/4 | 1 3/4 | — | | 62.81 | 4.97 | 310.2 | .046 | — | 1.93 | — |
| | | | SAMPLED @ 2:52 | | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

**Pump Type:** QED microPurge **Tubing Type:** PE

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Damian Mason | | SAMPLER(S) SIGNATURE(S): D. Mason |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 2:52 | SAMPLING ENDED AT: 2:52 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION Data Only Collection | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| | | | HCL | |

**Groundwater Parameter Tolerances (if possible):**

Turbidity: <10 NTUs
Temperature: +/- 5 °F
pH: +/- 0.2 Units
ORP: +/- 20 millivolts

DO: +/- 0.2 mg/l or +/- 10%
Specific Conductance: +/- 3%
Drawdown: no more than 25% of screened interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**REMARKS:**

No Turb meter

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: RAYLOC | | SITE LOCATION: Creek |
| WELL NO: MW-17 | SAMPLE ID: MW-17 @ 25' | DATE: 12/19/13 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 31 | STATIC DEPTH TO WATER (ft): 8.13 | WELL CAPACITY (gal/ft): .16 |

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658

| | | | |
|---|---|---|---|
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 1:20 | PURGE ENDED AT: 1:38 | TOTAL VOL PURGED (gal): 1 1/4 |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | TEMP. (°c) | pH | ORP (millivolts) | COND. (µS/m) | TURB. (NTUs) | DO (mg/L) | TDS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1:23 | 1/4 | 1/4 | — | 8.13 | 63.17 | 6.18 | 208.9 | .138 | — | 1.53 | — |
| 1:26 | 1/4 | 3/8 | — | 8.13 | 63.32 | 6.12 | 299.7 | .137 | — | 0.91 | — |
| 1:29 | 1/4 | 5/8 | — | 8.13 | 63.40 | 6.12 | 343.9 | .137 | — | 0.75 | — |
| 1:32 | 1/4 | 3/4 | — | 8.13 | 63.43 | 6.11 | 359.3 | .137 | — | 0.64 | — |
| 1:35 | 1/4 | 1 | — | 8.13 | 63.42 | 6.11 | 364.7 | .137 | — | 0.57 | — |
| 1:38 | 1/4 | 1 1/4 | — | 8.13 | 63.42 | 6.11 | 366.9 | .137 | — | 0.52 | — |
| | | | | | | | | | | | |
| | | | Sampled @ | | | | 1:38 | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

**Pump Type:** QED MicroPurge **Tubing Type:** PE

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Damian Mason | | SAMPLER(S) SIGNATURE(S): D. Mason |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 1:38 | SAMPLING ENDED AT: 1:38 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION Data ONY | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| | | | HCL | |
| | | | | |
| | | | | |
| | | | | |

**Groundwater Parameter Tolerances (if possible):**

Turbidity: <10 NTUs
Temperature: +/- 5 °F
pH: +/- 0.2 Units
ORP: +/- 20 millivolts

DO: +/- 0.2 mg/l or +/- 10%
Specific Conductance: +/- 3%
Drawdown: no more than 25% of screened interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**REMARKS:**

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: RAYLOC | | SITE LOCATION: Creek |
| WELL NO: MW-19 | SAMPLE ID: MW-19 @ 30' | DATE: 12/19/13 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 35 | STATIC DEPTH TO WATER (ft): 7.81 | WELL CAPACITY (gal/ft): .16 |

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658

| | | | |
|---|---|---|---|
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 1:50 | PURGE ENDED AT: 2:09 | TOTAL VOL PURGED (gal): 5/8 |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | TEMP. (°c) | pH | ORP (millivolts) | COND. (µS/m) | TURB. (NTUs) | DO (mg/L) | TDS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1:56 | 1/8 | 1/8 | — | 7.98 | 63.86 | 6.60 | 109.4 | .097 | — | 3.65 | — |
| 2:00 | 1/8 | 1/4 | — | 7.98 | 62.40 | 6.23 | 7.9 | .249 | — | 1.31 | — |
| 2:03 | 1/8 | 3/8 | — | 7.98 | 62.68 | 6.20 | 12.5 | .244 | — | 1.00 | — |
| 2:06 | 1/8 | 1/2 | — | 7.98 | 63.12 | 6.17 | 18.9 | .237 | — | 0.68 | — |
| 2:09 | 1/8 | 5/8 | — | | 63.4 | 6.16 | 21.4 | .233 | — | 0.51 | — |
| | | | Sampled @ 2:09 | | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

**Pump Type:** QED Micropurge **Tubing Type:** PE

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Damian Mason | | SAMPLER(S) SIGNATURE(S): D. Mason |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 2:09 | SAMPLING ENDED AT: 2:09 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION Data only | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| / | / | / | HCL | / |

| | | |
|---|---|---|
| **Groundwater Parameter Tolerances (if possible):** | Turbidity: <10 NTUs<br>Temperature: +/- 5 °F<br>pH: +/- 0.2 Units<br>ORP: +/- 20 millivolts | DO: +/- 0.2 mg/l or +/- 10%<br>Specific Conductance: +/- 3%<br>Drawdown: no more than 25% of screened interval above pump intake |

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**REMARKS:**

No Turb meter

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: RAYLOC | | SITE LOCATION: Fulton Co. Housing Authority |
| WELL NO: MW-20 | SAMPLE ID: MW-20@60' | DATE: 12/19/13 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 70 | STATIC DEPTH TO WATER (ft): 20.21 | WELL CAPACITY (gal/ft): .16 |

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658

| | | | |
|---|---|---|---|
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 10:10 | PURGE ENDED AT: 10:46 | TOTAL VOL PURGED (gal): 1 |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | TEMP. (°c) | pH | ORP (millivolts) | COND. (µS/m) | TURB. (NTUs) | DO (mg/L) | TDS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10:25 | 1/8 | 1/8 | — | 20.01 | 54.98 | 6.98 | 68.70 | .057 | — | 5.07 | — |
| 10:28 | 1/8 | 1/4 | — | 20.01 | 54.98 | 6.44 | 79.20 | .097 | — | 4.96 | — |
| 10:31 | 1/8 | 3/8 | — | 20.01 | 55.92 | 6.52 | 84.40 | .096 | — | 4.46 | — |
| 10:34 | 1/8 | 1/2 | — | 20.01 | 57.11 | 6.57 | 86.50 | .096 | — | 4.30 | — |
| 10:37 | 1/8 | 5/8 | — | 20.08 | 57.33 | 6.62 | 89.60 | .096 | — | 4.20 | — |
| 10:40 | 1/8 | 3/4 | — | 20.09 | 57.39 | 6.61 | 95.70 | .097 | — | 4.17 | — |
| 10:43 | 1/8 | 7/8 | — | 20.09 | 57.53 | 6.58 | 102.90 | .097 | — | 4.11 | — |
| 10:46 | 1/8 | 1 | — | 20.09 | 58.11 | 6.57 | 107.10 | 0.097 | — | 4.07 | — |
| | | | | | Sampled @ 10:46 | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

**Pump Type:** QED Micropurge **Tubing Type:** PE

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Damian Nelson | | SAMPLER(S) SIGNATURE(S): [signature] |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 10:46 | SAMPLING ENDED AT: 10:46 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION Data Only | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| | | | 1 HCL | |

**Groundwater Parameter Tolerances (if possible):**

Turbidity: <10 NTUs
Temperature: +/- 5 °F
pH: +/- 0.2 Units
ORP: +/- 20 millivolts

DO: +/- 0.2 mg/l or +/- 10%
Specific Conductance: +/- 3%
Drawdown: no more than 25% of screened interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**REMARKS:**

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: RAYLOC | | SITE LOCATION: Source Area |
| WELL NO: MW-21 | SAMPLE ID: MW-21 @ 60' | DATE: 12/18/13 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2" | TOTAL WELL DEPTH (ft): ~~[illegible]~~ 75' | STATIC DEPTH TO WATER (ft): 46.45 | WELL CAPACITY (gal/ft): .16 |

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658

| | | | |
|---|---|---|---|
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 10:50 | PURGE ENDED AT: 11:13 | TOTAL VOL PURGED (gal): 1/16 |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | TEMP. (~~°C~~ °F) | pH | ORP (millivolts) | COND. (µS/m) | TURB. (NTUs) | DO (mg/L) | TDS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10:58 | min | min | — | 46.65 | 57.53 | 5.32 | 179.7 | 0.314 | — | 1.32 | — |
| 11:02 | min | min | 46.65 | ~~57.39~~ | 57.81 | 5.75 | 184.3 | .316 | — | 1.19 | — |
| 11:05 | min | min | — | 46.65 | 58.03 | 5.71 | 185.1 | .316 | — | 1.03 | — |
| 11:08 | min | min | — | 45.75 | 57.65 | 5.69 | 186.1 | .316 | — | .99 | — |
| 11:11 | min | min | — | 45.75 | 57.04 | 5.71 | 186.9 | .317 | — | 1.01 | — |
| | | | | Sampled @ 11:13 | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: QED MicroPurge Tubing Type: PE

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Damian Mason | | SAMPLER(S) SIGNATURE(S): D. Mason |
| SAMPLING METHOD(S): | SAMPLING INITIATED AT: 11:13 | SAMPLING ENDED AT: ~~[illegible]~~ 11:13 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION Vista ONLY | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| 1 | 1 | 1 | HCL | 1 |

| | | |
|---|---|---|
| **Groundwater Parameter Tolerances (if possible):** | Turbidity: <10 NTUs<br>Temperature: +/- 5 °F<br>pH: +/- 0.2 Units<br>ORP: +/- 20 millivolts | DO: +/- 0.2 mg/l or +/- 10%<br>Specific Conductance: +/- 3%<br>Drawdown: no more than 25% of screened interval above pump intake |

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**REMARKS:**

No Turb meter

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: RAYLOC | | SITE LOCATION: Source Area |
| WELL NO: MW 22 | SAMPLE ID: MW-22@60' | DATE: 12/18/13 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2" | TOTAL WELL DEPTH (ft): 70' | STATIC DEPTH TO WATER (ft): 42.56 | WELL CAPACITY (gal/ft): .16 |

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658

| | | | |
|---|---|---|---|
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 1:24 | PURGE ENDED AT: 1:43 | TOTAL VOL PURGED (gal): 1/2 d |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | TEMP. (°F) | pH | ORP (millivolts) | COND. (µS/m) | TURB. (NTUs) | DO (mg/L) | TDS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1:24 | min | | — | 42.54 | 60.79 | 5.73 | 100.5 | .315 | — | 2.30 | — |
| 1:29 | min | | — | 42.54 | 63.38 | 5.61 | 118.5 | .302 | — | 1.48 | — |
| 1:31 | min | | — | 42.54 | 64.12 | 5.69 | 115.8 | .301 | — | 1.36 | — |
| 1:34 | 1/4 | 1/4 | — | 42.54 | 64.31 | 5.76 | 113.1 | .299 | — | 1.27 | — |
| 1:37 | 1/4 | 1/2 | — | 42.54 | 64.79 | 5.77 | 113.8 | .297 | — | 1.14 | — |
| 1:40 | min | 1/2 | — | 42.54 | 65.28 | 5.78 | 114.5 | .296 | — | 1.03 | — |
| 1:42 | min | 1/2 | — | 42.54 | 65.15 | 5.78 | 114.6 | .296 | — | 0.98 | — |
| | | | | | | | | | | | |
| | | Sampled @ | | | 1:43 | | | | | | |
| | | | | | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: QED MicroPurge Tubing Type: PE

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Damian Mason | | SAMPLER(S) SIGNATURE(S): D. Mason |
| SAMPLING METHOD(S): | SAMPLING INITIATED AT: | SAMPLING ENDED AT: |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION Data Only | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| | | | HCL | |

| | | |
|---|---|---|
| Groundwater Parameter Tolerances (if possible): | Turbidity: <10 NTUs<br>Temperature: +/- 5 °F<br>pH: +/- 0.2 Units<br>ORP: +/- 20 millivolts | DO: +/- 0.2 mg/l or +/- 10%<br>Specific Conductance: +/- 3%<br>Drawdown: no more than 25% of screened interval above pump intake |

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**REMARKS:**

No Turb Meter

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: RAYLOC | | SITE LOCATION: Source Area |
| WELL NO: MW 23 | SAMPLE ID: MW 23 @ 60' | DATE: 12/18/13 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): | TOTAL WELL DEPTH (ft): 69' | STATIC DEPTH TO WATER (ft): 47.49 | WELL CAPACITY (gal/ft): 60' |

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658

| | | | |
|---|---|---|---|
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 2:13 | PURGE ENDED AT: 3:05 | TOTAL VOL PURGED (gal): 1/2 |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | TEMP. (°C) °F | pH | ORP (millivolts) | COND. (µS/m) | TURB. (NTUs) | DO (mg/L) | TDS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2:49 | min | | — | 47.38 | 53.11 | 5.04 | -82.74 | .565 | — | 4.39 | — |
| 2:53 | min | | — | 47.49 | 59.80 | 4.51 | -15.86 | .561 | — | 1.99 | — |
| 2:56 | min | | — | 47.49 | 64.48 | 4.74 | -27.60 | .561 | — | 1.34 | — |
| 2:59 | min | | — | 47.49 | 68.66 | 4.83 | -39.10 | .560 | — | 1.1 | — |
| 3:02 | 1/4 | 1/4 | — | 47.49 | 70.75 | 4.88 | -51.50 | .563 | — | .99 | — |
| 3:05 | 1/4 | 1/2 | — | 47.49 | 71.55 | 4.89 | -53.8 | .562 | — | .95 | — |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | Sampled @ 3:05 | | | | | | | | |
| | | | | | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: QED Micro Purge Tubing Type: PE

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Damian Mason | | SAMPLER(S) SIGNATURE(S): D Mason |
| SAMPLING METHOD(S): | SAMPLING INITIATED AT: 3:05 | SAMPLING ENDED AT: 3:05 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION Data only | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| | | | HCL | |
| | | | | |
| | | | | |
| | | | | |

**Groundwater Parameter Tolerances (if possible):**
Turbidity: <10 NTUs
Temperature: +/- 5 °F
pH: +/- 0.2 Units
ORP: +/- 20 millivolts
DO: +/- 0.2 mg/l or +/- 10%
Specific Conductance: +/- 3%
Drawdown: no more than 25% of screened interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**REMARKS:** Had Some issues w/ grab plate/o-rings
No Turb meter

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: RAYLOC | | SITE LOCATION: Railroad |
| WELL NO: MW-24 | SAMPLE ID: MW-24@30' | DATE: 12/19/13 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 35 | STATIC DEPTH TO WATER (ft) 22.03 | WELL CAPACITY (gal/ft): .16 |

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658

| | | | |
|---|---|---|---|
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 9:15 | PURGE ENDED AT: 9:42 | TOTAL VOL PURGED (gal): 3/4 |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | TEMP. (°C) | pH | ORP (millivolts) | COND. (µS/m) | TURB. (NTUs) | DO (mg/L) | TDS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 9:19 | 1/8 | 1/8 | | 22.21 | 54.03 | 5.16 | 290.0 | .372 | | 3.36 | |
| 9:23 | 1/8 | 1/4 | | 22.26 | 54.06 | 5.17 | 322.5 | .388 | | 2.55 | |
| 9:26 | 1/8 | 3/8 | | 22.24 | 53.98 | 5.17 | 334.9 | .386 | | 2.45 | |
| 9:35 | 1/8 | 1/2 | | 21.98 | 56.94 | 5.15 | 356.3 | .384 | | 2.53 | |
| 9:39 | 1/8 | 5/8 | | 21.96 | 56.76 | 5.16 | 358.3 | .381 | | 2.61 | |
| 9:42 | 1/8 | 3/4 | | 21.96 | 57.19 | 5.16 | 359.4 | .379 | | 2.64 | |
| | | | | Sampled @ 9:42 | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: QED Microbore Tubing Type: PE

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Damian Nelson | | SAMPLER(S) SIGNATURE(S): D. Nelson |
| SAMPLING METHOD(S): | SAMPLING INITIATED AT: 9:42 | SAMPLING ENDED AT: 9:42 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION Data Only | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| | | | HCL | |

| | | |
|---|---|---|
| Groundwater Parameter Tolerances (if possible): | Turbidity: <10 NTUs<br>Temperature: +/- 5 °F<br>pH: +/- 0.2 Units<br>ORP: +/- 20 millivolts | DO: +/- 0.2 mg/l or +/- 10%<br>Specific Conductance: +/- 3%<br>Drawdown: no more than 25% of screened interval above pump intake |

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS: NO Turb meter. Ran out of $CO_2$ @ 9:26

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: RAYLOC | | SITE LOCATION: Fulton Co. Housing Authority |
| WELL NO: PT-3 | SAMPLE ID: PT-3 | DATE: 12/19/13 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 67.6 | STATIC DEPTH TO WATER (ft): 20.39 | WELL CAPACITY (gal/ft): .16 |

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658

| | | | |
|---|---|---|---|
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 11:05 | PURGE ENDED AT: | TOTAL VOL PURGED (gal): 1/2 + |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | TEMP. (°c) | pH | ORP (millivolts) | COND. (µS/m) | TURB. (NTUs) | DO (mg/L) | TDS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 11:10 | 1/8 | 1/8 | — | 20.34 | 67.78 | 5.65 | 17.3 | .713 | — | .99 | — |
| 11:13 | L 1/8 | L 1/4 | — | 20.34 | 64.20 | 5.55 | 14.1 | .722 | — | .86 | — |
| 11:16 | L 1/8 | > 1/4 | — | 20.39 | 64.55 | 5.41 | 19.3 | .729 | — | .64 | — |
| 11:19 | L 1/8 | > 3/8 | — | 20.39 | 64.70 | 5.35 | 24.5 | .733 | — | [illegible] | — |
| 11:22 | L 1/8 | > 3/8 | — | 20.39 | 65.16 | 5.29 | 30.8 | .735 | — | 0.54 | — |
| 11:25 | L 1/8 | 1/2 | — | 20.39 | 65.24 | 5.24 | 36.7 | .734 | — | 0.51 | — |
| 11:28 | L 1/8 | > 1/2 | — | | 65.37 | 5.21 | 42.3 | .733 | — | 0.49 | — |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

0.57

Sampled @ 11:28

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: QED MicroPurge Tubing Type: PE

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Damian Mason | | SAMPLER(S) SIGNATURE(S): D. Mason |
| SAMPLING METHOD(S): | SAMPLING INITIATED AT: 11:24 | SAMPLING ENDED AT: 11:28 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| Data Cony | | | | |
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| | | | HCL | |
| | | | | |
| | | | | |
| | | | | |

**Groundwater Parameter Tolerances (if possible):**

Turbidity: <10 NTUs
Temperature: +/- 5 °F
pH: +/- 0.2 Units
ORP: +/- 20 millivolts

DO: +/- 0.2 mg/l or +/- 10%
Specific Conductance: +/- 3%
Drawdown: no more than 25% of screened interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**REMARKS:**

No Turb meter

GCAL ANALYTICAL LABORATORIES, LLC

# CHAIN OF CUSTODY RECORD

**GCAL USE ONLY**

7979 Innovation Park Dr., Baton Rouge, LA 70820-7402
Phone: 225.769.4900 • Fax: 225.767.5717 • www.gcal.com

**Report to:**
Client: SAGE Environmental
Address: 600 Chastain Rd Suite 320 Kennesaw, GA 30144
Contact: Jack Wintle
Phone: 678-481-0130
E-mail: jack.wintle@sageenvironmental.com

**Bill to:**
Client: SAME
Address:
Contact:
Phone:
E-mail:

Analytical Requests & Method

GCAL use only:
Custody Seal
used ❑ yes ❑ no
intact ❑ yes ❑ no
Temperature °C

P.O. Number: 1221-1-4
Project Name/Number: Rallo C
Sampled By: Matthew R. Howe

❑ Dissolved Analysis Requested
❑ Field filtered
❑ Lab filtered

| Matrix[1] | Date | Time (2400) | Comp | Grab | Sample Description | No Containers | VOC's | | | | | | | | | | | Preservative |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W | 3/12/14 | 0922 | | X | MW-23 @ 60' | 3 | HCl | | | | | | | | | | | |
| | | 1023 | | | MW-22 @ 60' | | | | | | | | | | | | | |
| | | 1117 | | | MW-21 @ 60' | | | | | | | | | | | | | |
| | | 1342 | | | MW-12 @ 60' | | | | | | | | | | | | | |
| | | 1446 | | | MW-24 @ 60' | | | | | | | | | | | | | |
| | | 1548 | | | MW-20 @ 60' | | | | | | | | | | | | | |
| | | 1626 | | | PT-3 @ 60' | | | | | | | | | | | | | |
| W | 3/13/14 | 0905 | | X | MW-17 @ 25' | 3 | HCl | | | | | | | | | | | |
| | | 1004 | | | MW-19 @ 30' | | | | | | | | | | | | | |
| | | 1048 | | | MW-15 @ 30' | | | | | | | | | | | | | |
| | | 1137 | | | MW-7 @ 30' | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

Air Bill No:

Turn Around Time (Business Days): ❑ 24h* ❑ 48h* ❑ 3 days* ❑ 1 week* ☒ Standard (Per Contract/Quote)

| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Date: | Time: |
|---|---|---|---|---|---|
| [signature] | 3/14/14 | | [signature] | 3/14/14 | 1112 |
| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Date: | Time: |
| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Date: | Time: |

Note:

By submitting these samples, you agree to GCAL's terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = solid, L = liquid, T = tissue

*Requires prior approval, rush charges may apply.

We cannot accept verbal changes. Please email written changes to your PM.

WHITE: CLIENT FINAL REPORT - CANARY: CLIENT

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | | SITE LOCATION: Source Aera |
| WELL NO: MW-23 | SAMPLE ID: MW-23 @ 60' | DATE: 3/12/2014 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 69 | STATIC DEPTH TO WATER (ft): 45.62 | WELL CAPACITY (gal/ft): |
| 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658 | | | |
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 0845 | PURGE ENDED AT: 0920 | TOTAL VOL PURGED (gal): 2.5 |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) | DO (mg/L) | TURB. (NTUs) | TDS | ORP (millivolts) | Cond mS/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0852 | 0.5 | 0.5 | — | 45.80 | 5.32 | 22.63 | 0.510 | 0.00 | — | — | 185.6 | 0.534 |
| 0856 | 0.5 | 1.0 | — | 45.95 | 5.32 | 23.00 | 0.517 | 0.00 | — | — | 187.7 | 0.538 |
| 0900 | 0.25 | 1.25 | — | 45.96 | 5.32 | 22.69 | 0.517 | 0.00 | — | — | 191.2 | 0.541 |
| 0904 | 0.25 | 1.50 | — | 45.99 | 5.31 | 22.70 | 0.522 | 0.00 | — | — | 195.6 | 0.546 |
| 0908 | 0.25 | 1.75 | — | 46.00 | 5.30 | 22.62 | 0.524 | 0.82 | — | — | 200.4 | 0.549 |
| 0912 | 0.25 | 2.0 | — | 46.04 | 5.28 | 22.70 | 0.529 | 0.83 | — | — | 205.4 | 0.553 |
| 0916 | 0.13 | 2.13 | — | 46.04 | 5.26 | 22.72 | 0.532 | 0.85 | — | — | 209.7 | 0.556 |
| | | | | Sampled @ 0922 | | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

| | |
|---|---|
| Pump Type: QED Micropurge | Tubing Type: PE |

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Matthew R. Howe | | SAMPLER(S) SIGNATURE(S): [signature] |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 0922 | SAMPLING ENDED AT: 0926 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION VOC's | | | SAMPLE PRESERVATION HCL | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| 3 | CG | 40 ml | HCL | VOC's |
| | | | | |
| | | | | |
| | | | | |

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | | SITE LOCATION: Source Area |
| WELL NO: MW-22 | SAMPLE ID: MW-22 @ 60' | DATE: 3/12/2014 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 70 | STATIC DEPTH TO WATER (ft): 41.65 | WELL CAPACITY (gal/ft): |

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658

| | | | |
|---|---|---|---|
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 9:49 AM | PURGE ENDED AT: 1022 | TOTAL VOL PURGED (gal): 2.5 |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) | DO (mg/L) | TURB. (NTUs) | TDS | ORP (millivolts) | Cond mS/cm c |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0957 | 0.5 | 0.5 | — | 41.63 | 5.48 | 69.82 | 0.177 | 0.47 | — | — | 529.3 | 0.191 |
| 1001 | 0.5 | 1.0 | — | 41.68 | 5.53 | 70.64 | 0.179 | 0.30 | — | — | 532.1 | 0.192 |
| 1005 | 0.25 | 1.25 | — | 41.68 | 5.55 | 70.80 | 0.180 | 0.25 | — | — | 530.6 | 0.192 |
| 1009 | 0.25 | 1.5 | — | 41.68 | 5.55 | 71.02 | 0.181 | 0.19 | — | — | 526.2 | 0.193 |
| 1013 | 0.25 | 1.75 | — | 41.70 | 5.55 | 71.11 | 0.183 | 0.16 | — | — | 524.3 | 0.196 |
| 1017 | 0.25 | 2.0 | — | 41.70 | 5.55 | 71.27 | 0.186 | 0.11 | — | — | 521.3 | 0.198 |
| 1021 | 0.25 | 2.25 | — | 41.70 | 5.56 | 71.38 | 0.190 | 0.10 | — | — | 519.2 | 0.202 |
| | | | | | | | | | | | | |
| | Sampled @ 1023 | | | | | | | | | | | |
| | | | | | | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

| | |
|---|---|
| Pump Type: QED Micropurge | Tubing Type: PE |

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Matthew R. Hoare | | SAMPLER(S) SIGNATURE(S): [signature] |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 1022 | SAMPLING ENDED AT: 1028 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| 3 | CG | 40ml | HCL | VOC's |
| | | | | |
| | | | | |
| | | | | |

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | SITE LOCATION: Source Area | |
| WELL NO: MW-21 | SAMPLE ID: MW-21 @ 60' | DATE: 3/12/2014 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 75' | STATIC DEPTH TO WATER (ft): 44.45 | WELL CAPACITY (gal/ft): |
| 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658 | | | |
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 1048 | PURGE ENDED AT: 1115 | TOTAL VOL PURGED (gal): 1.0+ |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) (°F) | COND. (µS/m) | DO (mg/L) | TURB. (NTUs) | TDS | ORP (millivolts) | Cond mS/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1058 | 0.5 | 0.5 | — | 44.19 | 9.39 | 66.90 | 0.113 | 4.81 | — | — | 108.7 | 0.126 |
| 1102 | 0.2 | 0.7 | — | 44.15 | 9.69 | 66.97 | 0.112 | 4.71 | — | — | 104.9 | 0.126 |
| 1106 | 0.1 | 0.8 | — | 44.30 | 9.92 | 66.63 | 0.117 | 4.69 | — | — | 97.4 | 0.131 |
| 1110 | 0.1 | 0.9 | — | 44.39 | 9.96 | 66.64 | 0.118 | 4.68 | — | — | 96.3 | 0.132 |
| 1114 | 0.1 | 1.0 | — | 44.41 | 9.97 | 66.68 | 0.117 | 4.69 | — | — | 97.6 | 0.131 |
| Sampled @ 1117 | | | | | | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

| | |
|---|---|
| Pump Type: QED Micropurge | Tubing Type: PE |

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Matthew R. Howe | | SAMPLER(S) SIGNATURE(S): Matt R. H |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 1116 | SAMPLING ENDED AT: 1122 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| 3 | CG | 40ml | HCL | VOCs |
| | | | | |
| | | | | |
| | | | | |

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| SITE NAME: Rayloc | | SITE LOCATION: Railroad |
|---|---|---|
| WELL NO: MW-12 | SAMPLE ID: MW-12 @ 60' | DATE: 3/12/2014 |

## PURGING DATA

| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 96 | STATIC DEPTH TO WATER (ft): MRH ~~41.~~ 21.95 | WELL CAPACITY (gal/ft): |
|---|---|---|---|
| 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658 | | | |
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 1306 | PURGE ENDED AT: | TOTAL VOL PURGED (gal): 1.5 |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°C) | COND. (µS/m) | DO (mg/L) | TURB. (NTUs) | TDS | ORP (millivolts) | Cond mS/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1317 | 0.25 | 0.25 | — | 22.10 | 4.96 | 17.11 | 0.079 | 2.89 | — | — | 287.8 | 0.094 |
| 1321 | 0.25 | MRH ~~1.00~~ 0.5 | — | 22.13 | 4.95 | 17.21 | 0.080 | 2.85 | — | — | 317.2 | 0.094 |
| 1325 | 0.25 | 0.75 | — | 22.18 | 4.96 | 17.20 | 0.080 | 2.82 | — | — | 338.7 | 0.094 |
| 1329 | 0.25 | 1.00 | — | 22.18 | 4.96 | 17.11 | 0.079 | 2.80 | — | — | 354.4 | 0.094 |
| 1334 | 0.25 | 1.25 | — | 22.18 | 4.96 | 17.18 | 0.080 | 2.79 | — | — | 366.7 | 0.094 |
| 1338 | 0.1 | 1.25 | — | 22.20 | 4.97 | 17.29 | 0.080 | 2.78 | — | — | 378.6 | 0.094 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | Sampled @ 1342 | | | | | | | | | | |
| | | | | | | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

**Pump Type:** QED Micropurge **Tubing Type:** PE

## SAMPLING DATA

| SAMPLED BY (PRINT): Matthew R. Howe | | SAMPLER(S) SIGNATURE(S): [signature] |
|---|---|---|
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 1340 | SAMPLING ENDED AT: 1343 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: ~~Y~~ (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| 3 | CG | 40ml | HCL | VOCs |
| | | | | |
| | | | | |
| | | | | |

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | | SITE LOCATION: Railroad |
| WELL NO: MW-24 | SAMPLE ID: MW-24 @ 30' | DATE: 3/12/2014 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 35 | STATIC DEPTH TO WATER (ft): 20.5 | WELL CAPACITY (gal/ft): |
| 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658 | | | |
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 1409 | PURGE ENDED AT: | TOTAL VOL PURGED (gal): 1.0+ |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) | DO (mg/L) | TURB. (NTUs) | TDS | ORP (millivolts) | Cond mS/cm c |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1427 | 0.5 | 0.5 | — | 20.84 | 5.23 | 17.84 | 0.322 | 2.29 | — | — | 568.4 | 0.373 |
| 1431 | 0.15 | 0.65 | — | 20.84 | 5.24 | 17.99 | 0.322 | 2.31 | — | — | 574.6 | 0.373 |
| 1435 | 0.1 | 0.75 | — | 20.82 | 5.25 | 18.05 | 0.332 | 2.11 | — | — | 579.0 | 0.384 |
| 1439 | 0.1 | 0.85 | — | 20.82 | 5.26 | 17.99 | 0.347 | 1.78 | — | — | 581.8 | 0.402 |
| 1443 | 0.15 | 1.0 | — | 20.82 | 5.27 | 17.95 | 0.354 | 1.62 | — | — | 583.6 | 0.410 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | Sampled @ 1446 | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

**Pump Type:** QED Micropurge **Tubing Type:** PE

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Matthew R. Howe | | SAMPLER(S) SIGNATURE(S): [signature] |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 1444 | SAMPLING ENDED AT: 1448 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| 3 | CG | 40ml | HCL | VOCs |
| | | | | |
| | | | | |
| | | | | |

REMARKS:
* Auto Coupling adds 0.08 ft to Depth Reading; Had issue w/ $CO_2$ tank + stopped.

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | | SITE LOCATION: Fulton County Housing Authority |
| WELL NO: MW-20 | SAMPLE ID: MW-20 @ 60' | DATE: 3/12/2014 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 70 | STATIC DEPTH TO WATER (ft): 17.69 | WELL CAPACITY (gal/ft): |
| 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658 | | | |
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 1517 | PURGE ENDED AT: | TOTAL VOL PURGED (gal): 0.7+ |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) | DO (mg/L) | TURB. (NTUs) | TDS | ORP (millivolts) | Cond mS/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1530 | 0.13 | 0.13 | — | 17.31 | 6.03 | 18.30 | 0.069 | 3.22 | — | — | 297.7 | 0.079 |
| 1534 | 0.12 | 0.25 | — | 17.38 | 5.97 | 18.00 | 0.068 | 3.06 | — | — | 307.8 | 0.078 |
| 1538 | 0.13 | 0.38 | — | 17.38 | 5.94 | 17.63 | 0.067 | 2.91 | — | — | 313.0 | 0.077 |
| 1542 | 0.12 | 0.50 | — | 17.45 | 5.89 | 17.43 | 0.066 | 2.76 | — | — | 316.3 | 0.077 |
| 1546 | 0.13 | 0.63 | — | 17.45 | 5.91 | 17.45 | 0.065 | 2.62 | — | — | 313.1 | 0.076 |
| | Sampled @ 1548 | | | | | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

| | |
|---|---|
| Pump Type: QED Micropurge | Tubing Type: PE |

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Matthew R. Howe | | SAMPLER(S) SIGNATURE(S): [signature] |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 1547 | SAMPLING ENDED AT: 1550 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| 3 | CG | 40ml | HCL | VOCs |
| | | | | |
| | | | | |
| | | | | |

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | | SITE LOCATION: Fulton County Housing Authrity |
| WELL NO: PT-3 | SAMPLE ID: PT-3 @ 60' | DATE: 3/12/2014 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 67.6 | STATIC DEPTH TO WATER (ft): 17.61 | WELL CAPACITY (gal/ft): |
| 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658 | | | |
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 1606 | PURGE ENDED AT: | TOTAL VOL PURGED (gal): 1.0+ |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) | DO (mg/L) | TURB. (NTUs) | TDS | ORP (millivolts) | Cond mS/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1614 | 0.25 | 0.25 | — | 17.40 | 5.71 | 17.43 | 0.391 | ~~0.40~~ 0.38 | — | — | 150.2 | 0.457 |
| 1618 | 0.12 | 0.37 | — | 17.45 | 5.48 | 17.45 | 0.393 | 0.23 | — | — | 174.7 | 0.459 |
| 1622 | 0.10 | 0.47 | — | 17.47 | 5.21 | 17.52 | 0.391 | 0.18 | — | — | 201.5 | 0.456 |
| 1626 | 0.10 | 0.57 | — | 17.47 | 5.02 | 17.34 | 0.387 | 0.17 | — | — | 221.1 | 0.453 |
| 1630 | 0.15 | 0.72 | — | 17.47 | 4.97 | 17.36 | 0.387 | 0.15 | — | — | 232.3 | 0.453 |
| 1634 | 0.15 | 0.87 | — | 17.47 | 4.93 | 17.41 | 0.386 | 0.14 | — | — | 242.3 | 0.451 |
| | Sampled @ 1636 | | | | | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

| | |
|---|---|
| Pump Type: QED Micropurge | Tubing Type: PE |

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Matthew R. Howe | | SAMPLER(S) SIGNATURE(S): [signature] |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 1635 | SAMPLING ENDED AT: 1638 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| 3 | CG | 40ml | HCL | VOCs |
| | | | | |
| | | | | |
| | | | | |

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | | SITE LOCATION: Creek |
| WELL NO: MW-17 | SAMPLE ID: MW-17 @ 25' | DATE: 3/13/2014 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 31 | STATIC DEPTH TO WATER (ft): 8.04 | WELL CAPACITY (gal/ft): |
| 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658 | | | |
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 0830 | PURGE ENDED AT: 0903 | TOTAL VOL PURGED (gal): ~1.0+ |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) | DO (mg/L) | TURB. (NTUs) | TDS | ORP (millivolts) | Cond mS/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0841 | 0.25 | 0.25 | — | 8.04 | 6.22 | 15.09 | 0.110 | 0.68 | — | — | 270.9 | 0.136 |
| 0845 | 0.12 | 0.37 | — | 8.07 | 6.20 | 15.99 | 0.114 | 0.46 | — | — | 324.3 | 0.137 |
| 0849 | 0.13 | 0.50 | — | 8.09 | 6.19 | 15.97 | 0.114 | 0.37 | — | — | 358.8 | 0.138 |
| 0853 | 0.10 | 0.60 | — | 8.09 | 6.18 | 16.57 | 0.116 | 0.31 | — | — | 397.5 | 0.139 |
| 0857 | 0.10 | 0.70 | — | 8.10 | 6.18 | 16.55 | 0.116 | 0.26 | — | — | 420.6 | 0.139 |
| 0901 | 0.10 | 0.80 | — | 8.10 | 6.17 | 16.55 | 0.116 | 0.24 | — | — | 436.3 | 0.139 |
| | Sampled @ 0905 | | | | | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

| | |
|---|---|
| Pump Type: QED Micropurge | Tubing Type: PE |

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Matthew R. Howe | | SAMPLER(S) SIGNATURE(S): Matt R. Howe |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 0903 | SAMPLING ENDED AT: 0906 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| 3 | CG | 40ml | HCL | VOCs |

REMARKS:
Coupler adds ~0.17 FT to top of PVC stickup inside well.

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | | SITE LOCATION: Creek |
| WELL NO: MW-19 | SAMPLE ID: MW-19 @ 30' | DATE: 3/13/2014 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 35 | STATIC DEPTH TO WATER (ft): 8.04 | WELL CAPACITY (gal/ft): |
| 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658 | | | |
| PURGE METHOD: LF/ LP | PURGE INITIATED AT: 0931 | PURGE ENDED AT: | TOTAL VOL PURGED (gal): 1.1 + |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) | DO (mg/L) | TURB. (NTUs) | TDS | ORP (millivolts) | Cond mS/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0938 | 0.25 | 0.25 | — | 8.09 | 6.38 | 13.67 | 0.191 | 0.37 | — | — | -35.3 | 0.244 |
| 0942 | 0.12 | 0.37 | — | 8.09 | 6.36 | 13.88 | 0.192 | 0.22 | — | — | -35.9 | 0.243 |
| 0946 | 0.13 | 0.50 | — | 8.09 | 6.36 | 14.05 | 0.191 | 0.14 | — | — | -34.4 | 0.242 |
| 0950 | 0.12 | 0.62 | — | 8.09 | 6.35 | 14.23 | 0.190 | 0.08 | — | — | -31.9 | 0.239 |
| 0954 | 0.13 | 0.75 | — | 8.09 | 6.34 | 14.25 | 0.189 | 0.05 | — | — | -29.8 | 0.237 |
| 0958 | 0.12 | 0.87 | — | 8.09 | 6.33 | 14.23 | 0.187 | 0.02 | — | — | -26.8 | 0.235 |
| 1002 | 0.13 | 1.0 | — | 8.09 | 6.32 | 14.23 | 0.185 | 0.01 | — | — | -24.1 | 0.233 |
| | | | | | | | | | | | | |
| | Sampled @ 1004 | | | | | | | | | | | |
| | | | | | | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

| | |
|---|---|
| Pump Type: QED Micropurge | Tubing Type: PE |

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Matthew R. Howe | | SAMPLER(S) SIGNATURE(S): [signature] |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 1003 | SAMPLING ENDED AT: 1006 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| 3 | CG | 40ml | HCL | VOCs |
| | | | | |
| | | | | |
| | | | | |

REMARKS:
Yellow Mark on sonde cord much higher + wrapped around well cap.

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | SITE LOCATION: Creek | |
| WELL NO: MW-15 | SAMPLE ID: MW-15 @ 30' | DATE: 3/13/2014 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 40 | STATIC DEPTH TO WATER (ft): 7.88 | WELL CAPACITY (gal/ft): |
| 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658 | | | |
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 10:20 | PURGE ENDED AT: 10:46 | TOTAL VOL PURGED (gal): ~1.0 |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) | DO (mg/L) | TURB. (NTUs) | TDS | ORP (millivolts) | Cond mS/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10:28 | 0.25 | 0.25 | — | 7.84 | 5.20 | 12.99 | 0.049 | 3.46 | — | — | 250.4 | 0.063 |
| 10:32 | 0.12 | 0.37 | — | 7.85 | 5.13 | 13.64 | 0.049 | 3.12 | — | — | 295.9 | 0.062 |
| 10:36 | 0.13 | 0.50 | — | 7.86 | 5.15 | 13.69 | 0.049 | 3.09 | — | — | 311.2 | 0.062 |
| 10:40 | 0.12 | 0.62 | — | 7.86 | 5.13 | 13.85 | 0.048 | 2.71 | — | — | 303.5 | 0.062 |
| 10:44 | 0.13 | 0.75 | — | 7.86 | 5.12 | 14.01 | 0.048 | 2.84 | — | — | 320.5 | 0.061 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | Sampled @ 1048 | | | | | | | | | | | |
| | | | | | | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

| | |
|---|---|
| Pump Type: QED Micropurge | Tubing Type: PE |

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Matthew R. Howe | | SAMPLER(S) SIGNATURE(S): [signature] |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 1046 | SAMPLING ENDED AT: 1050 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| 3 | CG | 40ml | HCL | VOCs |
| | | | | |
| | | | | |
| | | | | |

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

DI 2051 28 3/12

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | | SITE LOCATION: Creek |
| WELL NO: MW-7 | SAMPLE ID: MW-7 @ 30' | DATE: 3/13/2014 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 35 | STATIC DEPTH TO WATER (ft): 25.58 | WELL CAPACITY (gal/ft): |
| 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658 | | | |
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 1102 | PURGE ENDED AT: | TOTAL VOL PURGED (gal): 1.0+ |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) | DO (mg/L) | TURB. (NTUs) | TDS | ORP (millivolts) | Cond mS/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1110 | 0.25 | 0.25 | — | 25.72 | 5.36 | 15.04 | 0.276 | 1.40 | — | — | 267.6 | 0.342 |
| 1114 | 0.12 | 0.37 | — | 25.72 | 5.37 | 16.13 | 0.295 | 0.86 | — | — | 275.8 | 0.356 |
| 1118 | 0.13 | 0.50 | — | 25.73 | 5.37 | 16.16 | 0.297 | 0.80 | — | — | 278.9 | 0.357 |
| 1122 | 0.12 | 0.62 | — | 25.75 | 5.37 | 16.72 | 0.312 | 0.70 | — | — | 279.3 | 0.371 |
| 1126 | 0.13 | 0.75 | — | 25.76 | 5.39 | 16.84 | 0.329 | 0.64 | — | — | 279.4 | 0.390 |
| 1130 | 0.12 | 0.87 | — | 25.76 | 5.39 | 16.97 | 0.339 | 0.61 | — | — | 278.2 | 0.401 |
| 1134 | 0.13 | 1.0 | — | 25.78 | 5.39 | 16.98 | 0.341 | 0.57 | — | — | 279.5 | 0.403 |
| | | | | | | | | | | | | |
| | Sampled @ 1137 | | | | | | | | | | | |
| | | | | | | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

| | |
|---|---|
| Pump Type: QED Micropurge | Tubing Type: PE |

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Matthew R. Howe | | SAMPLER(S) SIGNATURE(S): [signature] |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 1135 | SAMPLING ENDED AT: 1140 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| 3 | CG | 40ml | HCL | VOCs |
| | | | | |
| | | | | |
| | | | | |

REMARKS: Collar above original PVC well cap

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | | SITE LOCATION: Source Aera |
| WELL NO: MW-23 | SAMPLE ID: MW-23 @ 60' | DATE: 6/9/14 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 69 | STATIC DEPTH TO WATER (ft): 45 | WELL CAPACITY (gal/ft): — |

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658

| | | | |
|---|---|---|---|
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 0839 | PURGE ENDED AT: 0918 | TOTAL VOL PURGED (gal): 0.75 |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) mS/cm | DO (mg/L) | TURB. (NTUs) (HACH) | TDS | ORP (millivolts) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0900 | 0.10 | 0.10 | — | 45.06 | 5.15 | 25.22 | 0.404 | 10.00 | | | ~~89.0~~ DPM 250.0 |
| 0906 | 0.20 | 0.20 | — | 45.08 | 5.11 | 23.90 | 0.397 | 0.00 | — | — | 251.8 |
| 0909 | 0.30 | 0.30 | — | 45.09 | 5.10 | 23.86 | 0.396 | 0.00 | — | — | 253.3 |
| 0912 | 0.40 | 0.40 | — | 45.09 | 5.09 | 23.86 | 0.397 | 0.00 | 255 | — | 255.1 |
| 0915 | 0.45 | 0.45 | — | 45.09 | 5.08 | 23.84 | 0.399 | 0.00 | 201 | — | 258.4 |
| 0918 | 0.50 | 0.50 | — | 45.09 | 5.08 | 23.97 | 0.401 | 0.00 | 196 | — | 260.3 |
| | | | | Sampled @ 0922 | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

| | |
|---|---|
| Pump Type: QED Micropurge | Tubing Type: PE |

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): ~~Matthew Howe~~ DPM / Damian Mason | | SAMPLER(S) SIGNATURE(S): ~~Matt Howe~~ DPM / [signature] |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 0922 | SAMPLING ENDED AT: 0930 |
| FIELD DECON: Y N | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | | SITE LOCATION: Source Area |
| WELL NO: MW-22 | SAMPLE ID: MW-22 @ 60' | DATE: 6/09/14 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 70 | STATIC DEPTH TO WATER (ft): 40.41 | WELL CAPACITY (gal/ft): |
| 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658 | | | |
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 0949 | PURGE ENDED AT: 1024 | TOTAL VOL PURGED (gal): <1.0 |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) mS/cm | DO (mg/L) | TURB. (NTUs) | TDS | ORP (millivolts) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1008 | 0.20 | 0.20 | — | 40.71 | 5.40 | 23.15 | 0.230 | 0.55 | N/A* | — | 129.8 |
| 1011 | 0.10 | 0.30 | — | 40.65 | 5.44 | 23.25 | 0.229 | 0.38 | N/A* | — | 121.0 |
| 1015 | 0.10 | 0.40 | — | 40.65 | 5.48 | 23.58 | 0.231 | 0.38 | N/A* | — | 124.0 |
| 1018 | 0.10 | 0.50 | — | 40.65 | 5.48 | 23.58 | 0.232 | 0.37 | N/A* | — | 124.5 |
| 1021 | 0.05 | 0.55 | — | 40.65 | 5.48 | 23.59 | 0.232 | 0.36 | N/A* | — | 125.1 |
| 1024 | 0.05 | 0.60 | — | 40.65 | 5.48 | 23.44 | 0.232 | 0.35 | | — | 125.9 |
| Sampled @ 1025 | | | | | | | | | | | |

* Very Turbid + over-range.

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

| | |
|---|---|
| Pump Type: QED Micropurge | Tubing Type: PE |

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Damian Mason | | SAMPLER(S) SIGNATURE(S): D. Mason |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 1025 | SAMPLING ENDED AT: 1030 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | | SITE LOCATION: Source Area |
| WELL NO: MW-21 | SAMPLE ID: MW-21 @ 60' | DATE: 6/09/14 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 75' | STATIC DEPTH TO WATER (ft): 43.40 | WELL CAPACITY (gal/ft): — |

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658

| | | | |
|---|---|---|---|
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 1050 | PURGE ENDED AT: 1133 | TOTAL VOL PURGED (gal): 21.0 |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH 11.08 | TEMP. (°c) | COND. (µS/m) mS/cm | DO (mg/L) | TURB. (NTUs) | TDS | ORP (millivolts) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1105 | 0.25 | 0.25 | — | 44.63 | ~~25.70~~ | 25.70 | 0.768 | 0.48 | 188 | — | -31.5 |
| 1108 | 0.05 | 0.30 | — | 45.10 | 10.98 | 25.73 | 0.775 | 0.41 | 116 | — | -26.4 |
| 1111 | 0.05 | 0.35 | — | 45.35 | 10.91 | 25.96 | 0.777 | 0.31 | 74.9 | — | -19.1 |
| 1114 | 0.05 | 0.40 | — | 45.29 | 10.88 | 27.33 | 0.791 | 0.32 | 68.6 | — | -15.0 |
| 1117 | 0.10 | 0.50 | — | 45.34 | 10.87 | 28.20 | 0.807 | 0.32 | 69.6 | — | -9.5 |
| 1121 | 0.05 | 0.55 | — | 45.36 | 10.86 | 28.42 | 0.803 | 0.32 | 52.4 | — | -7.0 |
| 1124 | 0.05 | 0.60 | — | 45.39 | 10.80 | 28.23 | 0.791 | 0.30 | 40.3 | — | -0.8 |
| 1127 | 0.05 | 0.65 | — | 45.46 | 10.78 | 28.17 | 0.783 | 0.32 | 35.1 | — | 3.1 |
| 1130 | 0.05 | 0.70 | — | 45.37 | 10.76 | 28.68 | 0.786 | 0.28 | 30.1 | — | 3.7 |
| 1133 | 0.05 | 0.75 | — | 45.34 | 10.76 | 29.14 | 0.793 | 0.32 | 27.8 | — | 4.1 |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLED @ 1134

| | |
|---|---|
| Pump Type: QED Micropurge | Tubing Type: PE |

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Damian Mason | | SAMPLER(S) SIGNATURE(S): D. Mason |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 1134 | SAMPLING ENDED AT: 1140 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | | SITE LOCATION: Railroad |
| WELL NO: MW-12 | SAMPLE ID: MW-12 @ 60' | DATE: 06/09/14 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 96 | STATIC DEPTH TO WATER (ft): 23.75 | WELL CAPACITY (gal/ft): |
| 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658 | | | |
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 1237 | PURGE ENDED AT: 1311 | TOTAL VOL PURGED (gal): |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) mS/cm | DO (mg/L) | TURB. (NTUs) | TDS | ORP (millivolts) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1253 | 0.12 | 0.12 | — | 23.28 | 5.04 | 22.76 | 0.095 | 2.80 | 656.0 | — | 249.7 |
| 1256 | 0.13 | 0.25 | — | 23.25 | 5.04 | 22.96 | 0.095 | 2.74 | 445.0 | — | 275.1 |
| 1259 | 0.05 | 0.30 | — | 23.25 | 5.03 | 22.35 | 0.093 | 2.78 | 441.0 | — | 286.0 |
| 1302 | 0.05 | 0.35 | — | 23.25 | 5.01 | 21.95 | 0.092 | 2.80 | 423.0 | — | 295.6 |
| 1305 | ~~0.40~~ 0.05 | 0.40 | — | 23.29 | 5.00 | 21.62 | 0.091 | 2.72 | 440.0 | — | 306.4 |
| 1308 | 0.05 | 0.45 | — | 23.29 | 4.99 | 21.46 | 0.091 | 2.67 | 424.0 | — | 314.6 |
| 1311 | 0.05 | 0.50 | — | 23.29 | 4.99 | 21.44 | 0.091 | 2.64 | 416.0 | — | 318.3 |
| | | | Sampled @ 1312 | | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

**Pump Type:** QED Micro purge **Tubing Type:** PE

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Damian Mason | | SAMPLER(S) SIGNATURE(S): D. Mason |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 1312 | SAMPLING ENDED AT: 1320 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | | SITE LOCATION: Railroad |
| WELL NO: MW-24 | SAMPLE ID: MW-24 @ 30' | DATE: 06/09/14 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 35 | STATIC DEPTH TO WATER (ft): 19.43 | WELL CAPACITY (gal/ft): — |
| 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658 | | | |
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 1347 | PURGE ENDED AT: 1416 | TOTAL VOL PURGED (gal): <1.0 |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) mS/cm | DO (mg/L) | TURB. (NTUs) | TDS | ORP (millivolts) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1401 | 0.25 | 0.25 | — | 19.57 | 5.34 | 19.05 | 0.318 | 2.67 | 153.0 | — | 273.0 |
| 1404 | 0.12 | 0.37 | — | 19.67 | 5.34 | 18.96 | 0.315 | 2.62 | 125.0 | — | 300.8 |
| 1407 | 0.13 | 0.50 | — | 19.73 | 5.34 | 18.84 | 0.313 | 2.60 | 116.0 | — | 311.0 |
| 1410 | 0.12 | 0.62 | — | 19.76 | 5.34 | 19.06 | 0.314 | 2.55 | 95.2 | — | 320.8 |
| 1413 | 0.08 | 0.70 | — | 19.79 | 5.34 | 18.89 | 0.315 | 2.60 | 98.0 | — | 327.3 |
| 1416 | 0.05 | 0.75 | — | 19.79 | 5.34 | 18.86 | 0.321 | 2.39 | 66.9 | — | 334.4 |
| Sampled @ 1417 | | | | | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

**Pump Type:** QED Micropurge **Tubing Type:** PE

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Damian Mason | | SAMPLER(S) SIGNATURE(S): D. Mason |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 1417 | SAMPLING ENDED AT: 1424 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | | SITE LOCATION: Creek |
| WELL NO: MW-7 | SAMPLE ID: MW-7 @ 30' | DATE: 06/09/14 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 35 | STATIC DEPTH TO WATER (ft): 25.82 | WELL CAPACITY (gal/ft): — |
| 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658 | | | |
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 1450 | PURGE ENDED AT: 1518 | TOTAL VOL PURGED (gal): <1.0 |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) mS/cm | DO (mg/L) | TURB. (NTUs) | TDS | ORP (millivolts) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1500 | 0.12 | 0.12 | — | 25.95 | 5.10 | 21.14 | 0.186 | 0.97 | 482 | — | 370.4 |
| 1503 | 0.13 | 0.25 | — | 25.94 | 5.02 | 20.94 | 0.183 | 0.84 | 469 | — | 429.7 |
| 1506 | 0.12 | 0.37 | — | 25.95 | 4.91 | 20.71 | 0.178 | 0.76 | 387 | — | 477.0 |
| 1509 | 0.13 | 0.50 | — | 25.95 | 4.83 | 20.75 | 0.176 | 0.74 | 300 | — | 497.0 |
| 1512 | 0.12 | 0.62 | — | 25.95 | 4.73 | 20.92 | 0.175 | 0.68 | 273 | — | 515.3 |
| 1515 | 0.13 | 0.75 | — | 25.95 | 4.61 | 20.87 | 0.177 | 0.67 | 207 | — | 529.5 |
| 1518 | 0.10 | 0.85 | — | 25.95 | 4.54 | 21.05 | 0.185 | 0.64 | 163 | — | 538.6 |
| | | Sampled @ 1520 | | | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

| | |
|---|---|
| Pump Type: QED Micropurge | Tubing Type: PE |

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Damian Mason | | SAMPLER(S) SIGNATURE(S): D. Mason |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 1520 | SAMPLING ENDED AT: 1530 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | | SITE LOCATION: Creek |
| WELL NO: MW-17 | SAMPLE ID: MW-17 @ 25' | DATE: 6/10/14 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 31 | STATIC DEPTH TO WATER (ft): 8.17 | WELL CAPACITY (gal/ft): |
| 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658 | | | |
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 0827 | PURGE ENDED AT: 0900 | TOTAL VOL PURGED (gal): < 1.0 |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) mS/cm | DO (mg/L) 1.02 ppm | TURB. (NTUs) | TDS | ORP (millivolts) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0844 | 0.12 | 0.12 | — | 8.15 | 6.18 | 19.53 | 0.124 | ~~2573~~ | N/A * | — | 257.3 |
| 0847 | 0.06 | 0.18 | — | 8.15 | 6.13 | 19.30 | 0.124 | 0.91 | N/A * | — | 273.3 |
| 0850 | 0.07 | 0.25 | — | 8.15 | 6.10 | 19.28 | 0.124 | 0.86 | N/A * | — | 282.9 |
| 0853 | 0.05 | 0.30 | — | 8.15 | 6.08 | 19.29 | 0.124 | 0.84 | N/A * | — | 288.4 |
| 0857 | 0.05 | 0.35 | — | 8.15 | 6.07 | 19.29 | 0.124 | 0.83 | N/A * | — | 290.6 |
| 0900 | 0.05 | 0.40 | — | 8.15 | 6.05 | 19.29 | 0.124 | 0.82 | N/A * | — | 292.3 |
| | SAMPLE @ 0902 | | | | | | | | | | |

* Over Range

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

| | |
|---|---|
| Pump Type: QED Micropurge | Tubing Type: PE |

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Damian Mason | | SAMPLER(S) SIGNATURE(S): [signature] |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 0902 | SAMPLING ENDED AT: |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | | SITE LOCATION: Creek |
| WELL NO: MW-19 | SAMPLE ID: MW-19 @ 30' | DATE: 6/10/14 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 35 | STATIC DEPTH TO WATER (ft): 8.14 | WELL CAPACITY (gal/ft): |
| 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658 | | | |
| PURGE METHOD: LF/ LP | PURGE INITIATED AT: 0927 | PURGE ENDED AT: 1002 | TOTAL VOL PURGED (gal): <1.0 |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) mS/cm | DO (mg/L) | TURB. (NTUs) | TDS | ORP (millivolts) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0936 | 0.20 | 0.20 | — | 8.18 | 6.36 | 18.45 | 0.186 | 0.71 | N/A * | — | -22.7 |
| 0939 | 0.05 | 0.25 | — | 8.18 | 6.37 | 18.41 | 0.189 | 0.43 | N/A * | — | -27.8 |
| 0942 | 0.05 | 0.30 | — | 8.18 | 6.37 | 18.33 | 0.189 | 0.27 | N/A * | — | -30.2 |
| 0945 | 0.05 | 0.35 | — | 8.18 | 6.37 | 18.33 | 0.188 | 0.20 | N/A * | — | -30.6 |
| 0948 | 0.05 | 0.40 | — | 8.18 | 6.36 | 18.27 | 0.188 | 0.16 | N/A * | — | -30.9 |
| 0951 | 0.10 | 0.50 | — | 8.18 | 6.36 | 18.35 | 0.187 | 0.13 | N/A * | — | -31.1 |
| 0953 | 0.10 | 0.60 | — | 8.18 | 6.36 | 18.37 | 0.187 | 0.11 | N/A * | — | -31.4 |
| 0956 | 0.10 | 0.70 | — | 8.18 | 6.36 | 18.39 | 0.187 | 0.09 | N/A * | — | -31.4 |
| 0959 | 0.10 | 0.80 | — | 8.18 | 6.36 | 18.38 | 0.187 | 0.09 | N/A * | — | -31.2 |
| 1002 | 0.10 | 0.90 | — | 8.18 | 6.36 | 18.41 | 0.187 | 0.10 | N/A * | — | -30.6 |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Sample @ 1004

* Detector ~~Over Range~~ Signal too low

| | |
|---|---|
| Pump Type: QED Micropurge | Tubing Type: PE |

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Damian Mayon | | SAMPLER(S) SIGNATURE(S): [signature] |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 1004 | SAMPLING ENDED AT: 1010 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | | SITE LOCATION: Creek |
| WELL NO: MW-15 | SAMPLE ID: MW-15 @ 30' | DATE: 6/10/14 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 40 | STATIC DEPTH TO WATER (ft): 8.35 | WELL CAPACITY (gal/ft): — |
| 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658 | | | |
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 1024 | PURGE ENDED AT: 1051 | TOTAL VOL PURGED (gal): < |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) mS/cm | DO (mg/L) | TURB. (NTUs) | TDS | ORP (millivolts) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1033 | 0.15 | 0.15 | — | 8.30 | 5.18 | 19.67 | 0.078 | 1.14 | 673 | — | 184.9 |
| 1036 | 0.10 | 0.25 | — | 8.31 | 5.11 | 19.53 | 0.078 | 0.92 | 497 | — | 221.1 |
| 1039 | 0.10 | 0.35 | — | 8.31 | 5.09 | 19.36 | 0.078 | 0.71 | 386 | — | 247.1 |
| 1042 | 0.05 | 0.40 | — | 8.31 | 5.09 | 19.36 | 0.077 | 0.62 | 325 | — | 263.8 |
| 1045 | 0.05 | 0.45 | — | 8.31 | 5.08 | 19.37 | 0.077 | 0.57 | 302 | — | 271.2 |
| 1048 | 0.05 | 0.50 | — | 8.32 | 5.08 | 19.32 | 0.077 | 0.57 | 274 | — | 274.6 |
| 1051 | 0.05 | 0.55 | — | 8.32 | 5.08 | 19.43 | 0.086 | 0.54 | 356 | — | 274.2 |
| Sample @ 1053 | | | | | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

**Pump Type: QED Micropurge** **Tubing Type: PE**

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Damian Mason | | SAMPLER(S) SIGNATURE(S): D. Mason |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 1053 | SAMPLING ENDED AT: 1058 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | | SITE LOCATION: Fulton County Housing Authrity |
| WELL NO: PT-3 | SAMPLE ID: PT-3 @ 60' | DATE: 6/10/14 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 67.6 | STATIC DEPTH TO WATER (ft): 18.64 | WELL CAPACITY (gal/ft): — |
| 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658 | | | |
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 1150 | PURGE ENDED AT: 1237 | TOTAL VOL PURGED (gal): < 1.0 |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) mS/cm | DO (mg/L) | TURB. (NTUs) | TDS | ORP (millivolts) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1214 | 0.12 | 0.12 | — | 18.47 | 4.74 | 20.50 | 0.753 | 0.96 | N/A * | — | 205.2 |
| 1218 | 0.13 | 0.25 | — | 18.43 | 4.48 | 20.80 | 0.762 | 0.61 | N/A* | — | 252.2 |
| 1224 | 0.06 | 0.31 | — | 18.40 | 4.44 | 21.38 | 0.769 | 0.46 | N/A* | — | 268.3 |
| 1228 | 0.13 | 0.43 | — | 18.41 | 4.39 | 21.21 | 0.758 | 0.37 | — | — | 278.0 |
| 1231 | 0.10 | 0.53 | — | 18.41 | 4.38 | 21.00 | 0.750 | 0.35 | — | — | 284.1 |
| 1234 | 0.10 | 0.63 | — | 18.41 | 4.37 | 20.90 | 0.744 | 0.38 | — | — | 288.1 |
| 1237 | 0.10 | 0.73 | — | 18.41 | 4.37 | 20.71 | 0.737 | 0.35 | — | — | 291.4 |
| Sample @ 1239 | | | | | | | | | | | |

* Detector Signal too low? Turbidity meter not Functioning properly!

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

| | |
|---|---|
| Pump Type: QED Micropurge | Tubing Type: PE |

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Damian Mason | | SAMPLER(S) SIGNATURE(S): D. Mason |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 1239 | SAMPLING ENDED AT: 1245 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | |
|---|---|
| SITE NAME: Rayloc | SITE LOCATION: Fulton County Housing Authority |

| | | |
|---|---|---|
| WELL NO: MW-20 | SAMPLE ID: MW-20 @ 60' | DATE: 6/10/14 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 70 | STATIC DEPTH TO WATER (ft): 19.09 | WELL CAPACITY (gal/ft): — |

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658

| | | | |
|---|---|---|---|
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 1305 | PURGE ENDED AT: | TOTAL VOL PURGED (gal): <1.0 |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) mS/cm | DO (mg/L) | TURB. * (NTUs) | TDS | ORP (millivolts) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1323 | 0.25 | 0.25 | — | 18.55 | 5.21 | 24.59 | 0.084 | 3.77 | — | — | 295.2 |
| 1326 | 0.05 | 0.30 | — | 18.54 | 5.11 | 25.27 | 0.085 | 3.87 | — | — | 314.0 |
| 1329 | 0.05 | 0.35 | — | 18.58 | 4.91 | 26.00 | 0.086 | 3.87 | — | — | 338.4 |
| 1332 | 0.05 | 0.40 | — | 18.74 | 4.31 | 22.72 | 0.079 | 3.91 | — | — | 370.0 |
| 1336 | 0.10 | 0.50 | — | 18.76 | 3.77 | 21.22 | 0.077 | 3.57 | — | — | 400.5 |
| 1339 | 0.05 | 0.55 | — | 18.76 | 4.04 | 21.84 | 0.078 | 3.26 | — | — | 411.3 |
| 1342 | 0.05 | 0.60 | — | 18.80 | 4.10 | 21.63 | 0.078 | 3.62 | — | — | 417.1 |
| 1345 | 0.05 | 0.65 | — | 18.80 | 4.10 | 21.55 | 0.078 | 3.58 | — | — | 423.5 |
| 1348 | 0.05 | 0.70 | — | 18.80 | 4.09 | 21.42 | 0.078 | 3.60 | — | — | 429.1 |
| ~~1351~~ | — | — | SAMPLED @ 1350 | | | | | | — | — | — |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

* Turbidity meter not working.

| | |
|---|---|
| Pump Type: QED Micropurge | Tubing Type: PE |

## SAMPLING DATA

| | |
|---|---|
| SAMPLED BY (PRINT): Damian Mason | SAMPLER(S) SIGNATURE(S): D. Mason |

| | | |
|---|---|---|
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 1350 | SAMPLING ENDED AT: 1358 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | | SITE LOCATION: Creek |
| WELL NO: MW-15 | SAMPLE ID: MW-15 @ 30' | DATE: 9/18/14 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 40 | STATIC DEPTH TO WATER (ft): 9.69 | WELL CAPACITY (gal/ft): |
| 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658 | | | |
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 1101 | PURGE ENDED AT: 1130 | TOTAL VOL PURGED (gal): |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) | DO (mg/L) | TURB. (NTUs) | TDS | ORP (millivolts) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1108 | <1/8 | | — | 9.74 | 5.85 | 20.38 | .076 | 2.52 | — | — | 96.2 |
| 1111 | 1/8 | | — | 9.74 | 5.47 | 19.75 | .077 | 1.37 | — | — | 79.6 |
| 1114 | 1/4 | | — | 9.74 | 5.86 | 19.61 | .076 | 0.86 | — | — | 71.6 |
| 1117 | <1/2 | | — | 9.74 | 5.86 | 19.63 | .076 | 0.56 | — | — | 68.2 |
| 1120 | <1/2 | | — | 9.74 | 5.86 | 19.59 | .075 | 0.47 | — | — | 66.2 |
| 1123 | 1/2 | | — | 9.74 | 5.86 | 19.51 | .075 | 0.28 | — | — | 62.9 |
| 1126 | ~1/2 | | — | 9.74 | 5.85 | 19.49 | .074 | 0.25 | — | — | 60.6 |
| | | | | | | | | | | | |
| | | | Sampled @ 1128 | | | | | | | | |
| | | | | | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

| | |
|---|---|
| Pump Type: QED Micropurge | Tubing Type: PE |

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Damian Marsen | | SAMPLER(S) SIGNATURE(S): D. Marsen |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 1128 | SAMPLING ENDED AT: 1128 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| 3 | | 40 ML | HCL | |
| | | | | |
| | | | | |
| | | | | |

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | | SITE LOCATION: Creek |
| WELL NO: MW-7 | SAMPLE ID: MW-7 @ 30' | DATE: 9/17/14 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 35 | STATIC DEPTH TO WATER (ft): 26.85 | WELL CAPACITY (gal/ft): — |
| 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658 | | | |
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 1515 | PURGE ENDED AT: 1543 | TOTAL VOL PURGED (gal): |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) mS/cm | DO (mg/L) | TURB. (NTUs) | TDS | ORP (millivolts) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1522 | > 1/4 | > 1/4 | — | 26.95 | 4.90 | 20.47 | 0.217 | 1.00 | 159 | — | 167.3 |
| 1525 | > 1/8 | < 1/2 | — | 26.99 | 4.79 | 19.94 | 0.106 | 0.77 | 133 | — | 170.2 |
| 1528 | 1/8 | 1/2 | — | 26.99 | 4.72 | 19.77 | 0.130 | 0.69 | 126 | — | 173.9 |
| 1531 | 1/8 | > 1/2 | — | 27.00 | 4.66 | 19.60 | 0.075 | 0.71 | 103 | — | 178.3 |
| 1534 | < 1/8 | > 1/2 | — | 27.04 | 4.57 | 19.52 | 0.075 | 0.64 | 70.9 | — | 185.1 |
| 1537 | 1/8 | < 3/4 | — | 27.04 | 4.54 | 19.52 | 0.076 | 0.67 | 63.1 | — | 189.7 |
| 1540 | < 1/8 | < 3/4 | — | 27.05 | 4.48 | 19.57 | 0.075 | 0.65 | 56.2 | | 198.5 |
| | | | SAMPLE @ 1545 | | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

| | |
|---|---|
| Pump Type: QED Micropurge | Tubing Type: PE |

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Matthew Howe | | SAMPLER(S) SIGNATURE(S): [signature] |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 1543 | SAMPLING ENDED AT: 1550 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| 3 | CG | 40ml | HCL | |
| | | | | |
| | | | | |
| | | | | |

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | | SITE LOCATION: Creek |
| WELL NO: MW-17 | SAMPLE ID: MW-17 @ 25' | DATE: 9/18/14 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 31 | STATIC DEPTH TO WATER (ft): 8.47 | WELL CAPACITY (gal/ft): |
| 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658 | | | |
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 0840 | PURGE ENDED AT: 0935 | TOTAL VOL PURGED (gal): |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) | DO (mg/L) | TURB. (NTUs) | TDS | ORP (millivolts) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0918 | <1/8 | | — | 8.58 | 6.38 | 21.50 | .133 | 1.68 | over | — | 242.6 |
| 0921 | <1/8 | | — | 8.58 | 6.29 | 21.31 | .135 | 1.17 | over | — | 255.4 |
| 0924 | <1/4 | | — | 8.58 | 6.27 | 21.26 | .135 | 0.93 | over | — | 259.6 |
| 0927 | <1/4 | | — | 8.58 | 6.25 | 21.19 | .135 | 0.78 | over | — | 258.1 |
| 0930 | <1/4 | | — | 8.58 | 6.24 | 21.16 | .135 | 0.71 | over | — | 241.8 |
| 0934 | 1/4 | | — | 8.58 | 6.23 | 21.10 | .135 | 0.56 | over | — | 218.7 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Sampled @ 0935 | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

| | |
|---|---|
| Pump Type: QED Micropurge | Tubing Type: PE |

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Damian Mason | | SAMPLER(S) SIGNATURE(S): D. Mason |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 0935 | SAMPLING ENDED AT: 0935 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| 3 | | 40mL | HCL | |
| | | | | |
| | | | | |
| | | | | |

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | | SITE LOCATION: Creek |
| WELL NO: MW-19 | SAMPLE ID: MW-19 @ 30' | DATE: 9/18/14 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 35 | STATIC DEPTH TO WATER (ft): 8.63 | WELL CAPACITY (gal/ft): |
| 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658 | | | |
| PURGE METHOD: LF/ LP | PURGE INITIATED AT: 1000 | PURGE ENDED AT: 1028 | TOTAL VOL PURGED (gal): |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) | DO (mg/L) | TURB. (NTUs) | TDS | ORP (millivolts) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1012 | 1/8 < | | ~~1/4~~ | 8.70 | 6.30 | 20.11 | .194 | 1.45 | | — | -2.6 |
| 1015 | 1/8 | | — | 8.70 | 6.26 | 19.59 | .203 | 0.79 | over | — | -17.0 |
| 1018 | 1/4 < | | — | 8.70 | 6.28 | 19.32 | .206 | 0.46 | | — | -29.2 |
| 1021 | 1/4 | | — | 8.70 | 6.28 | 19.26 | .207 | 0.39 | over | — | -32.2 |
| 1024 | 1/4 > | | — | 8.70 | 6.29 | 19.16 | .206 | 0.31 | over | — | -35.5 |
| 1027 | 1/2 | | — | 8.70 | 6.29 | 19.14 | .206 | 0.28 | over | — | -36.9 |
| | | | | | | | | | | | |
| | | Sampled @ 1028 | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

| | |
|---|---|
| Pump Type: QED Micropurge | Tubing Type: PE |

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Damian Meeson | | SAMPLER(S) SIGNATURE(S): D. Meeson |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 1028 | SAMPLING ENDED AT: 1028 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| 3 | | 40 ML | HCL | |
| | | | | |
| | | | | |
| | | | | |

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | | SITE LOCATION: Fulton County Housing Authrity |
| WELL NO: PT-3 | SAMPLE ID: PT-3 @ 60' | DATE: 9/18/14 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 67.6 1240 | STATIC DEPTH TO WATER (ft): 21.57 | WELL CAPACITY (gal/ft): |
| 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658 | | | |
| PURGE METHOD: LF/LP | PURGE INITIATED AT: | PURGE ENDED AT: | TOTAL VOL PURGED (gal): |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) | DO (mg/L) | TURB. (NTUs) | TDS | ORP (millivolts) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1250 | | | | | | | | | | | |
| 1306 | | | | | | | | | 311 | | |
| 1320 | | | | | | | | | 388 | | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Sampled @ 1320

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

| | |
|---|---|
| Pump Type: QED Micropurge | Tubing Type: PE |

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Damian Nelson | | SAMPLER(S) SIGNATURE(S): D. Nelson |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 1320 | SAMPLING ENDED AT: 1320 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| 3 | | 40 ML | HCL | |
| | | | | |
| | | | | |
| | | | | |

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

Note
Sonde was Malfunctioning so we purged well for 30 minutes before sampling.

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | |
|---|---|
| SITE NAME: Rayloc | SITE LOCATION: Fulton County Housing Authority |

| | | |
|---|---|---|
| WELL NO: MW-20 | SAMPLE ID: MW-20 @ 60' | DATE: 9/18/14 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 70 | STATIC DEPTH TO WATER (ft): 21.85 | WELL CAPACITY (gal/ft): |
| 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658 | | | |
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 1340 | PURGE ENDED AT: 1406 | TOTAL VOL PURGED (gal): |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) | DO (mg/L) | TURB. (NTUs) | TDS | ORP (millivolts) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1350 | <1/8 | | — | 21.45 | 5.90 | 24.68 | .085 | 5.08 | over | — | 103.1 |
| 1355 | <1/8 | | — | 21.49 | 5.96 | 23.17 | .082 | 5.09 | over | — | 130.8 |
| 1358 | 1/8 | | — | 21.50 | 5.98 | 22.06 | .080 | 5.11 | over | — | 148 |
| 1401 | <1/4 | | — | 21.50 | 6.00 | 21.67 | .080 | 5.12 | over | — | 160.8 |
| 1404 | <1/4 | | — | 21.52 | 5.70 | 21.46 | .079 | 5.17 | over | — | 174.7 |
| 1407 | 1/4 | | — | 21.52 | 5.67 | 21.60 | .079 | 5.03 | over | — | 181.7 |
| | | | | | | | | | | | |
| | | Sample @ 1406 | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

| | |
|---|---|
| Pump Type: QED Micropurge | Tubing Type: PE |

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Damian Meson | | SAMPLER(S) SIGNATURE(S): D. Meson |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 1406 | SAMPLING ENDED AT: 1406 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| 3 | | 40ML | HCL | |
| | | | | |
| | | | | |
| | | | | |

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | | SITE LOCATION: Railroad |
| WELL NO: MW-24 | SAMPLE ID: MW-24 @ 30' | DATE: 9/17/14 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 35 | STATIC DEPTH TO WATER (ft): 21.23 | WELL CAPACITY (gal/ft): |
| 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658 | | | |
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 1416 | PURGE ENDED AT: 1445 | TOTAL VOL PURGED (gal): 1 1/4 |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) mS/cm | DO (mg/L) | TURB. (NTUs) | TDS | ORP (millivolts) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1423 | 1/4 | 1/4 | — | 22.15 | 5.43 | 18.69 | 0.252 | 3.45 | 241 | — | 299.3 |
| 1426 | 1/8 | >1/4 | — | 22.24 | 5.41 | 18.50 | 0.251 | 3.45 | 136 | — | 309.9 |
| 1429 | >1/8 | 1/2 | — | 22.30 | 5.41 | 18.43 | 0.255 | 3.29 | 113 | — | 320.6 |
| 1432 | 1/8 | >1/2 | — | 22.24 | 5.41 | 18.49 | 0.261 | 3.12 | 88.4 | — | 329.4 |
| 1435 | 1/8 | <3/4 | — | 22.28 | 5.41 | 18.46 | 0.270 | 2.95 | 100 | — | 334.5 |
| 1438 | >1/8 | <3/4 | — | 22.31 | 5.41 | 18.32 | 0.286 | 2.58 | 64.3 | — | 348.5 |
| 1442 | >1/8 | >3/4 | — | 22.30 | 5.42 | 18.46 | 0.294 | 2.42 | 52.6 | — | 359.7 |
| 1445 | 1/8 | <1 | — | 22.33 | 5.41 | 18.30 | 0.293 | 2.45 | 39.9 | — | 368.4 |
| SAMPLE @ 1450 | | | | | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

**Pump Type:** QED Micropurge **Tubing Type:** PE

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Matthew Howe | | SAMPLER(S) SIGNATURE(S): [signature] |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 1449 | SAMPLING ENDED AT: 1455 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| 3 | CG | 40ml | HCL | |
| | | | | |
| | | | | |
| | | | | |

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | | SITE LOCATION: Railroad |
| WELL NO: MW-12 | SAMPLE ID: MW-12 @ 60' | DATE: 9/17/14 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 96 | STATIC DEPTH TO WATER (ft): 27.00 | WELL CAPACITY (gal/ft): — |
| 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658 | | | |
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 1305 | PURGE ENDED AT: 1347 | TOTAL VOL PURGED (gal): <1 1/4 |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) mS/cm | DO (mg/L) | TURB. (NTUs) | TDS | ORP (millivolts) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1321 | 0/2 | 0/2 | — | 26.48 | 5.29 | 18.64 | 0.095 | 2.97 | NR* | — | 226.2 |
| 1324 | <1/8 | >1/2 | — | 26.48 | 5.29 | 18.65 | 0.095 | 2.95 | NR | — | 243.1 |
| 1327 | 1/8 | <3/4 | — | 26.41 | 5.31 | 19.11 | 0.096 | 2.96 | NR | — | 249.3 |
| 1330 | 1/8 | 3/4 | — | 26.39 | 5.33 | 19.80 | 0.098 | 3.00 | NR | — | 259.1 |
| 1333 | <1/8 | >3/4 | — | 26.39 | 5.32 | 19.57 | 0.097 | 3.02 | NR | — | 271.9 |
| 1336 | <1/8 | >3/4 | — | 26.39 | 5.29 | 19.47 | 0.097 | 3.00 | NR | — | 287.0 |
| 1340 | 1/8 | <1 | — | 26.40 | 5.28 | 18.99 | 0.096 | 2.97 | NR | — | 302.1 |
| 1344 | <1/8 | >1 | — | 26.43 | 5.26 | 18.79 | 0.097 | 2.95 | NR | — | 316.8 |
| 1347 | 1/8 | 1 1/4 | — | 26.43 | 5.26 | 18.76 | 0.097 | 2.93 | NR | — | 325.8 |
| ~~1350~~ | | | | SAMPLE @ 1350 | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

*NR = out of Range

**Pump Type:** QED Micropurge **Tubing Type:** PE

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Matthew Howe | | SAMPLER(S) SIGNATURE(S): [signature] |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 1350 | SAMPLING ENDED AT: 1355 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| 3 | CG | 40ml | HCL | |
| | | | | |
| | | | | |
| | | | | |

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | | SITE LOCATION: Source Area |
| WELL NO: MW-21 | SAMPLE ID: MW-21 @ 60' | DATE: 9/17/14 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 75' | STATIC DEPTH TO WATER (ft): 45.00 | WELL CAPACITY (gal/ft): |

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658

| | | | |
|---|---|---|---|
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 1127 | PURGE ENDED AT: 1209 | TOTAL VOL PURGED (gal): <1.0 |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) mS/cm | DO (mg/L) * | TURB. (NTUs) | TDS | ORP (millivolts) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1140 | 1/4 | 1/4 | — | 46.75 | 9.70 | 27.12 | 0.284 | 0.43 | 199 | — | 38.3 |
| 1143 | <1/8 | >1/4 | — | 46.90 | 9.68 | 27.04 | 0.294 | 0.37 | 106 | — | 44.3 |
| 1146 | <1/8 | <1/2 | — | 46.92 | 9.63 | 27.89 | 0.303 | 0.36 | 71.0 | — | 53.7 |
| 1149 | <1/8 | <1/2 | — | 46.95 | 9.61 | 27.51 | 0.312 | 0.37 | 56.1 | — | 60.5 |
| 1152 | <1/8 | <1/2 | — | 46.96 | 9.58 | 28.79 | 0.322 | 0.35 | 39.5 | — | 67.7 |
| 1156 | <1/8 | 1/2 | — | 47.05 | 9.51 | 28.66 | 0.338 | 0.32 | 31.7 | — | 76.1 |
| 1159 | <1/8 | >1/2 | — | 47.08 | 9.47 | 28.65 | 0.355 | 0.32 | 18.2 | — | 80.6 |
| 1202 | <1/8 | >1/2 | — | 47.09 | 9.44 | 28.90 | 0.357 | 0.31 | 16.5 | — | 84.9 |
| 1205 | <1/8 | >1/2 | — | 47.10 | 9.42 | 29.20 | 0.358 | 0.30 | 20 | — | 89.0 |
| 1208 | <1/8 | <3/4 | — | 47.11 | 9.40 | 29.20 | 0.364 | 0.30 | 11.7 | — | 92.8 |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

| | |
|---|---|
| Pump Type: QED Micropurge | Tubing Type: PE |

*SVE system is running.

- SAMPLE @ 1211 -

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Matthew Howe | | SAMPLER(S) SIGNATURE(S): [signature] |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 1209 | SAMPLING ENDED AT: 1214 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| 3 | CG | 40ml | HCL | |
| | | | | |
| | | | | |
| | | | | |

~~355~~
~~035~~
~~320~~

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | | SITE LOCATION: Source Aera |
| WELL NO: MW-23 | SAMPLE ID: MW-23 @ 60' | DATE: 9/17/14 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 69 | STATIC DEPTH TO WATER (ft): 47.42 | WELL CAPACITY (gal/ft): — |
| 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658 | | | |
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 0915 | PURGE ENDED AT: 0954 | TOTAL VOL PURGED (gal): < 1.0 |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) mS/cm ~~0.406 mS/cm~~ | DO (mg/L) * | TURB. (NTUs) | TDS | ORP (millivolts) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0925 | < ~~1/4~~ | < ~~1/2~~ | — | 47.58 | 5.19 | 23.11 | 0.391 mS/cm | 0.00 | 433 | — | 221.5 |
| 0928 | 1/8 | > ~~1/4~~ | — | 47.61 | 5.20 | 23.30 | 0.396 | 0.00 | 398 | — | 219.6 |
| 0931 | 1/8 | < 1/2 | — | 47.65 | 5.21 | 23.45 | .398 | 0.00 | 379 | — | 217.9 |
| 0937 | 1/8 | 1/2 | — | 47.65 | 5.20 | 23.53 | 0.401 | 0.00 | 320 | — | 218.6 |
| 0940 | 1/8 | > 1/2 | — | 47.68 | 5.19 | 23.56 | 0.402 | 0.00 | 281 | — | 219.6 |
| 0943 | 1/8 | < 3/4 | — | 47.68 | 5.17 | 23.55 | 0.403 | 0.00 | 300 | — | 223.2 |
| 0946 | < 1/8 | < 3/4 | — | 47.68 | 5.16 | 23.63 | 0.405 | 0.00 | 228 | — | 227.4 |
| 0949 | < 1/8 | < 3/4 | — | 47.69 | 5.14 | 23.69 | 0.407 | 0.00 | 213 | — | 231.6 |
| | | | | Sample @ 0955 | | | | | | | |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

| | |
|---|---|
| Pump Type: QED Micropurge | Tubing Type: PE |

* SVE System is running!

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Matthew Howe | | SAMPLER(S) SIGNATURE(S): Matt S H |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 0954 | SAMPLING ENDED AT: 0959 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION ~~HCL~~ MKH | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| 3 | CG | 40ml | HCL | VOCs |
| | | | | |
| | | | | |
| | | | | |

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

**SAGE**
ENVIRONMENTAL CONSULTING

# GROUNDWATER SAMPLING LOG

| | | |
|---|---|---|
| SITE NAME: Rayloc | | SITE LOCATION: Source Area |
| WELL NO: MW-22 | SAMPLE ID: MW-22 @ 60' | DATE: 9/17/14 |

## PURGING DATA

| | | | |
|---|---|---|---|
| WELL DIAMETER (in.): 2 | TOTAL WELL DEPTH (ft): 70 | STATIC DEPTH TO WATER (ft): 42.64 | WELL CAPACITY (gal/ft): |
| 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658 | | | |
| PURGE METHOD: LF/LP | PURGE INITIATED AT: 1025 | PURGE ENDED AT: 1109 | TOTAL VOL PURGED (gal): >1.0 |

| TIME | VOLUME PURGED (gal) | CUML. VOLUME PURGED (gal) | PURGE RATE (gpm) | DEPTH TO WATER (ft) | pH | TEMP. (°c) | COND. (µS/m) mS/cm | DO (mg/L) x | TURB. (NTUs) | TDS | ORP (millivolts) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1040 | 1/8 | 1/8 | — | 42.32 | 5.61 | 24.07 | 0.231 | 1.07 | 669 | — | 179.6 |
| 1043 | <1/8 | >1/8 | — | 42.33 | 5.58 | 23.91 | 0.210 | 0.98 | 646 | — | 195.2 |
| 1046 | <1/8 | <1/4 | — | 42.33 | 5.54 | 23.98 | 0.194 | 0.82 | 603 | — | 225.7 |
| 1049 | <1/8 | 1/4 | — | 42.33 | 5.52 | 24.04 | 0.189 | 0.74 | 577 | — | 253.0 |
| 1052 | <1/8 | >1/4 | — | 42.33 | 5.50 | 23.91 | 0.187 | 0.66 | 535 | — | 281.2 |
| 1055 | <1/8 | <1/2 | — | 42.33 | 5.47 | 23.82 | 0.187 | 0.62 | 589 | — | 309.6 |
| 1058 | <1/8 | <1/2 | — | 42.33 | 5.45 | 23.88 | 0.187 | 0.57 | 710 | — | 324.9 |
| 1103 | <1/8 | 1/2 | — | 42.36 | 5.42 | 23.68 | 0.186 | 0.50 | NR* | — | 347.3 |
| 1106 | <1/8 | >1/2 | — | 42.36 | 5.39 | 23.52 | 0.186 | 0.40 | NR | — | 368.2 |
| 1109 | <1/8 | <3/4 | — | | 5.37 | 23.25 | 0.186 | 0.34 | NR | — | 389.4 |

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

| | |
|---|---|
| Pump Type: QED Micropurge | Tubing Type: PE |

x SVE system running
Ø NR: Out of Range

- Sampled 1111 -

## SAMPLING DATA

| | | |
|---|---|---|
| SAMPLED BY (PRINT): Matthew Howe | | SAMPLER(S) SIGNATURE(S): [signature] |
| SAMPLING METHOD(S): LF/LP | SAMPLING INITIATED AT: 1110 | SAMPLING ENDED AT: 1115 |
| FIELD DECON: Y (N) | FIELD FILTERED: Y (N) | DUPLICATE: Y (N) |

| SAMPLE CONTAINER SPECIFICATION | | | SAMPLE PRESERVATION | INTENDED ANALYSIS AND/OR METHOD |
|---|---|---|---|---|
| NO. | MAT'L CODE | VOLUME | PRESERVATIVE USED | |
| 3 | CG | 40ml | HCL | |
| | | | | |
| | | | | |
| | | | | |

REMARKS:

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

# APPENDIX C

*NELAP CERTIFICATE NUMBER 01955*
*DOD ELAP CERTIFICATE NUMBER L13-190*

# ANALYTICAL RESULTS

**PERFORMED BY**


**GULF COAST ANALYTICAL LABORATORIES, INC.**

**7979 Innovation Park Dr.**

**Baton Rouge, LA 70820**


**Report Date** 12/30/2013

**GCAL Report** 213122326

| | |
|---|---|
| ***Deliver To*** | Sage Environmental Services<br>600 Chastain Rd.<br>Kennesaw, GA 30144<br>678-431-0130 |
| ***Attn*** | Jack Wintle |

***Project*** Rayloc VOCs

CASE NARRATIVE

**Client:** Sage Environmental **Report:** 213122326

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

**VOLATILES MASS SPECTROMETRY**

In the EPA 8260B analysis, samples 21312232604 (MW-17 25), 21312232606 (MW-20 60), 21312232607 (MW-21 60), 21312232608 (MW-22 60) 21312232609 (MW-23 60), and 21312232611 (PT-3 60) had to be diluted due to the presence of non-target background and diluted to bracket the concentration of target compounds within the calibration range of the instrument.. The dilutions are reflected in t elevated reporting limits.

In the EPA 8260B analysis, samples 21312232602 (MW-12 60) and 21312232610 (MW-24 30) had to be diluted to bracket the concentration of target compounds within the calibration range of the instrument. The dilutions are reflected in elevated reporting limits.

# Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

**Common Abbreviations Utilized in this Report**

| | |
|---|---|
| **ND** | Indicates the result was Not Detected at the specified RDL |
| **DO** | Indicates the result was Diluted Out |
| **MI** | Indicates the result was subject to Matrix Interference |
| **TNTC** | Indicates the result was Too Numerous To Count |
| **SUBC** | Indicates the analysis was Sub-Contracted |
| **FLD** | Indicates the analysis was performed in the Field |
| **PQL** | Practical Quantitation Limit |
| **MDL** | Method Detection Limit |
| **RDL** | Reporting Detection Limit |
| **00:00** | Reported as a time equivalent to 12:00 AM |

**Reporting Flags Utilized in this Report**

| | |
|---|---|
| **J** | Indicates the result is between the MDL and RDL |
| **U** | Indicates the compound was analyzed for but not detected |
| **B** | Indicates the analyte was detected in the associated Method Blank |

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

_____

Authorized Signature
**GCAL REPORT** 213122326

# Report Sample Summary

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232601 | MW-7 30 | Water | 12/19/2013 12:59 | 12/21/2013 12:40 |
| 21312232602 | MW-12 60 | Water | 12/19/2013 08:51 | 12/21/2013 12:40 |
| 21312232603 | MW-15 30 | Water | 12/19/2013 14:52 | 12/21/2013 12:40 |
| 21312232604 | MW-17 25 | Water | 12/19/2013 13:58 | 12/21/2013 12:40 |
| 21312232605 | MW-19 30 | Water | 12/19/2013 14:09 | 12/21/2013 12:40 |
| 21312232606 | MW-20 60 | Water | 12/19/2013 10:46 | 12/21/2013 12:40 |
| 21312232607 | MW-21 60 | Water | 12/18/2013 11:13 | 12/21/2013 12:40 |
| 21312232608 | MW-22 60 | Water | 12/18/2013 13:43 | 12/21/2013 12:40 |
| 21312232609 | MW-23 60 | Water | 12/18/2013 15:05 | 12/21/2013 12:40 |
| 21312232610 | MW-24 30 | Water | 12/19/2013 09:42 | 12/21/2013 12:40 |
| 21312232611 | PT-3 60 | Water | 12/19/2013 11:28 | 12/21/2013 12:40 |

# Summary of Compounds Detected

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232601 | MW-7 30 | Water | 12/19/2013 12:59 | 12/21/2013 12:40 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 14.6 | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232602 | MW-12 60 | Water | 12/19/2013 08:51 | 12/21/2013 12:40 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 16.8 | 10.0 | | ug/L |
| 79-01-6 | Trichloroethene | 10.8 | 5.00 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 16.8 | 5.00 | | ug/L |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 557 | 25.0 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232604 | MW-17 25 | Water | 12/19/2013 13:58 | 12/21/2013 12:40 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 683 | 20.0 | | ug/L |
| 79-01-6 | Trichloroethene | 353 | 10.0 | | ug/L |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1330 | 100 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 514 | 100 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232605 | MW-19 30 | Water | 12/19/2013 14:09 | 12/21/2013 12:40 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 61.1 | 10.0 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 7.29 | 5.00 | | ug/L |
| 75-01-4 | Vinyl chloride | 17.7 | 5.00 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 61.1 | 5.00 | | ug/L |

# Summary of Compounds Detected (con't)

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232606 | **MW-20 60** | Water | 12/19/2013 10:46 | 12/21/2013 12:40 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 168 | 20.0 | | ug/L |
| 79-01-6 | Trichloroethene | 154 | 10.0 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 165 | 10.0 | | ug/L |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1270 | 100 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232607 | **MW-21 60** | Water | 12/18/2013 11:13 | 12/21/2013 12:40 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 79-01-6 | Trichloroethene | 105 | 50.0 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 58.4 | 50.0 | | ug/L |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 5760 | 500 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232608 | **MW-22 60** | Water | 12/18/2013 13:43 | 12/21/2013 12:40 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 693 | 20.0 | | ug/L |
| 79-01-6 | Trichloroethene | 239 | 10.0 | | ug/L |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1200 | 100 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 552 | 100 | | ug/L |

# Summary of Compounds Detected (con't)

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232609 | **MW-23 60** | Water | 12/18/2013 15:05 | 12/21/2013 12:40 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 95-50-1 | 1,2-Dichlorobenzene | 10.5 | 10.0 | | ug/L |
| 67-66-3 | Chloroform | 12.6 | 10.0 | | ug/L |
| 79-01-6 | Trichloroethene | 304 | 10.0 | | ug/L |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 2750 | 200 | | ug/L |
| 127-18-4 | Tetrachloroethene | 1270 | 100 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 2750 | 100 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232610 | **MW-24 30** | Water | 12/19/2013 09:42 | 12/21/2013 12:40 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 67-66-3 | Chloroform | 8.76 | 5.00 | | ug/L |
| 79-01-6 | Trichloroethene | 144 | 5.00 | | ug/L |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 647 | 50.0 | | ug/L |
| 127-18-4 | Tetrachloroethene | 356 | 25.0 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 647 | 25.0 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232611 | **PT-3 60** | Water | 12/19/2013 11:28 | 12/21/2013 12:40 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 75-34-3 | 1,1-Dichloroethane | 356 | 250 | | ug/L |
| 78-93-3 | 2-Butanone | 471 | 250 | | ug/L |
| 67-64-1 | Acetone | 9460 | 250 | | ug/L |
| 75-09-2 | Methylene chloride | 531 | 250 | | ug/L |
| 127-18-4 | Tetrachloroethene | 9120 | 250 | | ug/L |
| 79-01-6 | Trichloroethene | 1250 | 250 | | ug/L |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 40300 | 5000 | | ug/L |

# Summary of Compounds Detected (con't)

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232611 | **PT-3 60** | Water | 12/19/2013 11:28 | 12/21/2013 12:40 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **156-59-2** | **cis-1,2-Dichloroethene** | **40300** | **2500** | | **ug/L** |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232601 | **MW-7 30** | Water | 12/19/2013 12:59 | 12/21/2013 12:40 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 12/26/2013 11:19 | LBH | 522612 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.00 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.00 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.00 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.00 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.00 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.00 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.00 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.00 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.00 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.00 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.00 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.00 | | ug/L |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 10.0 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.00 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.00 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.00 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.00 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.00 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.00 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 5.00 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 5.00 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 5.00 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 5.00 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 5.00 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | | ug/L |
| 67-64-1 | Acetone | ND | 5.00 | | ug/L |
| 71-43-2 | Benzene | ND | 5.00 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 5.00 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 5.00 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 5.00 | | ug/L |
| 75-25-2 | Bromoform | ND | 5.00 | | ug/L |
| 74-83-9 | Bromomethane | ND | 5.00 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 5.00 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 5.00 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 5.00 | | ug/L |
| 75-00-3 | Chloroethane | ND | 5.00 | | ug/L |
| 67-66-3 | Chloroform | ND | 5.00 | | ug/L |
| 74-87-3 | Chloromethane | ND | 5.00 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 5.00 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 5.00 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.00 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 5.00 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 5.00 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 5.00 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 5.00 | | ug/L |
| 91-20-3 | Naphthalene | ND | 5.00 | | ug/L |
| 100-42-5 | Styrene | ND | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232601 | **MW-7 30** | Water | 12/19/2013 12:59 | 12/21/2013 12:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 12/26/2013 11:19 | LBH | 522612 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **14.6** | **5.00** | | **ug/L** |
| 108-88-3 | Toluene | ND | 5.00 | | ug/L |
| 79-01-6 | Trichloroethene | ND | 5.00 | | ug/L |
| 75-69-4 | Trichlorofluoromethane | ND | 5.00 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.00 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 5.00 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 15.0 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 10.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 5.00 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | | ug/L |
| 95-47-6 | o-Xylene | ND | 5.00 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 5.00 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 5.00 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 5.00 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.00 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 50 | 48.4 | ug/L | 97 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 50 | 52.3 | ug/L | 105 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 50 | 50.3 | ug/L | 101 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50 | 50 | ug/L | 100 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232602 | **MW-12 60** | Water | 12/19/2013 08:51 | 12/21/2013 12:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 5 | 12/26/2013 11:40 | LBH | 522612 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **557** | **25.0** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 250 | 245 | ug/L | 98 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 250 | 262 | ug/L | 105 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 250 | 255 | ug/L | 102 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 250 | 253 | ug/L | 101 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 12/26/2013 12:01 | LBH | 522612 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.00 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.00 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.00 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.00 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.00 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.00 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.00 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.00 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.00 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.00 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.00 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.00 | | ug/L |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **16.8** | **10.0** | | **ug/L** |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.00 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.00 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.00 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.00 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.00 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.00 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 5.00 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 5.00 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 5.00 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 5.00 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 5.00 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | | ug/L |
| 67-64-1 | Acetone | ND | 5.00 | | ug/L |
| 71-43-2 | Benzene | ND | 5.00 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 5.00 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 5.00 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 5.00 | | ug/L |
| 75-25-2 | Bromoform | ND | 5.00 | | ug/L |
| 74-83-9 | Bromomethane | ND | 5.00 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232602 | **MW-12 60** | Water | 12/19/2013 08:51 | 12/21/2013 12:40 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 12/26/2013 12:01 | LBH | 522612 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | ND | 5.00 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 5.00 | | ug/L |
| 75-00-3 | Chloroethane | ND | 5.00 | | ug/L |
| 67-66-3 | Chloroform | ND | 5.00 | | ug/L |
| 74-87-3 | Chloromethane | ND | 5.00 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 5.00 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 5.00 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.00 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 5.00 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 5.00 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 5.00 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 5.00 | | ug/L |
| 91-20-3 | Naphthalene | ND | 5.00 | | ug/L |
| 100-42-5 | Styrene | ND | 5.00 | | ug/L |
| 108-88-3 | Toluene | ND | 5.00 | | ug/L |
| **79-01-6** | **Trichloroethene** | **10.8** | **5.00** | | **ug/L** |
| 75-69-4 | Trichlorofluoromethane | ND | 5.00 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.00 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 5.00 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 15.0 | | ug/L |
| **156-59-2** | **cis-1,2-Dichloroethene** | **16.8** | **5.00** | | **ug/L** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 10.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 5.00 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | | ug/L |
| 95-47-6 | o-Xylene | ND | 5.00 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 5.00 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 5.00 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 5.00 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.00 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 50 | 49.3 | ug/L | 99 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 50 | 52.1 | ug/L | 104 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 50 | 50 | ug/L | 100 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50 | 50.9 | ug/L | 102 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232603 | **MW-15 30** | Water | 12/19/2013 14:52 | 12/21/2013 12:40 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 12/26/2013 12:42 | LBH | 522612 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.00 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.00 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.00 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.00 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.00 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.00 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.00 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.00 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.00 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.00 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.00 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.00 | | ug/L |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 10.0 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.00 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.00 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.00 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.00 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.00 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.00 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 5.00 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 5.00 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 5.00 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 5.00 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 5.00 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | | ug/L |
| 67-64-1 | Acetone | ND | 5.00 | | ug/L |
| 71-43-2 | Benzene | ND | 5.00 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 5.00 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 5.00 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 5.00 | | ug/L |
| 75-25-2 | Bromoform | ND | 5.00 | | ug/L |
| 74-83-9 | Bromomethane | ND | 5.00 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 5.00 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 5.00 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 5.00 | | ug/L |
| 75-00-3 | Chloroethane | ND | 5.00 | | ug/L |
| 67-66-3 | Chloroform | ND | 5.00 | | ug/L |
| 74-87-3 | Chloromethane | ND | 5.00 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 5.00 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 5.00 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.00 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 5.00 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 5.00 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 5.00 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 5.00 | | ug/L |
| 91-20-3 | Naphthalene | ND | 5.00 | | ug/L |
| 100-42-5 | Styrene | ND | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232603 | **MW-15 30** | Water | 12/19/2013 14:52 | 12/21/2013 12:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 12/26/2013 12:42 | LBH | 522612 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | ND | 5.00 | | ug/L |
| 108-88-3 | Toluene | ND | 5.00 | | ug/L |
| 79-01-6 | Trichloroethene | ND | 5.00 | | ug/L |
| 75-69-4 | Trichlorofluoromethane | ND | 5.00 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.00 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 5.00 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 15.0 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 10.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 5.00 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | | ug/L |
| 95-47-6 | o-Xylene | ND | 5.00 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 5.00 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 5.00 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 5.00 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.00 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 50 | 48.8 | ug/L | 98 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 50 | 52.5 | ug/L | 105 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 50 | 49.2 | ug/L | 98 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50 | 51.6 | ug/L | 103 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232604 | **MW-17 25** | Water | 12/19/2013 13:58 | 12/21/2013 12:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 20 | 12/26/2013 13:03 | LBH | 522612 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **1330** | **100** | | **ug/L** |
| **156-59-2** | **cis-1,2-Dichloroethene** | **514** | **100** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 1000 | 977 | ug/L | 98 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 1000 | 1040 | ug/L | 104 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 1000 | 997 | ug/L | 100 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 1000 | 1020 | ug/L | 102 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 2 | 12/26/2013 13:25 | LBH | 522612 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 10.0 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 10.0 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 10.0 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 10.0 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 10.0 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 10.0 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 10.0 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 10.0 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 10.0 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 10.0 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10.0 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 10.0 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 10.0 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 10.0 | | ug/L |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **683** | **20.0** | | **ug/L** |
| 78-87-5 | 1,2-Dichloropropane | ND | 10.0 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 10.0 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 10.0 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 10.0 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 10.0 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 10.0 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 10.0 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 10.0 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 10.0 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 10.0 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 10.0 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 10.0 | | ug/L |
| 67-64-1 | Acetone | ND | 10.0 | | ug/L |
| 71-43-2 | Benzene | ND | 10.0 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 10.0 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 10.0 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 10.0 | | ug/L |
| 75-25-2 | Bromoform | ND | 10.0 | | ug/L |
| 74-83-9 | Bromomethane | ND | 10.0 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232604 | **MW-17 25** | Water | 12/19/2013 13:58 | 12/21/2013 12:40 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 2 | 12/26/2013 13:25 | LBH | 522612 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 75-15-0 | Carbon disulfide | ND | 10.0 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 10.0 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 10.0 | | ug/L |
| 75-00-3 | Chloroethane | ND | 10.0 | | ug/L |
| 67-66-3 | Chloroform | ND | 10.0 | | ug/L |
| 74-87-3 | Chloromethane | ND | 10.0 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 10.0 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 10.0 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 10.0 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 10.0 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 10.0 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 10.0 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 10.0 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 10.0 | | ug/L |
| 91-20-3 | Naphthalene | ND | 10.0 | | ug/L |
| 100-42-5 | Styrene | ND | 10.0 | | ug/L |
| 108-88-3 | Toluene | ND | 10.0 | | ug/L |
| **79-01-6** | **Trichloroethene** | **353** | **10.0** | | **ug/L** |
| 75-69-4 | Trichlorofluoromethane | ND | 10.0 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 10.0 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 10.0 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 30.0 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 10.0 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 20.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 10.0 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 10.0 | | ug/L |
| 95-47-6 | o-Xylene | ND | 10.0 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 10.0 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 10.0 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 10.0 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 10.0 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 10.0 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 10.0 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 100 | 97 | ug/L | 97 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 100 | 102 | ug/L | 102 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 100 | 100 | ug/L | 100 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 100 | 104 | ug/L | 104 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232605 | **MW-19 30** | Water | 12/19/2013 14:09 | 12/21/2013 12:40 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 12/26/2013 14:07 | LBH | 522612 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.00 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.00 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.00 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.00 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.00 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.00 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.00 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.00 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.00 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.00 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.00 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.00 | | ug/L |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **61.1** | **10.0** | | **ug/L** |
| **78-87-5** | **1,2-Dichloropropane** | **7.29** | **5.00** | | **ug/L** |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.00 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.00 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.00 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.00 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.00 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 5.00 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 5.00 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 5.00 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 5.00 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 5.00 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | | ug/L |
| 67-64-1 | Acetone | ND | 5.00 | | ug/L |
| 71-43-2 | Benzene | ND | 5.00 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 5.00 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 5.00 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 5.00 | | ug/L |
| 75-25-2 | Bromoform | ND | 5.00 | | ug/L |
| 74-83-9 | Bromomethane | ND | 5.00 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 5.00 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 5.00 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 5.00 | | ug/L |
| 75-00-3 | Chloroethane | ND | 5.00 | | ug/L |
| 67-66-3 | Chloroform | ND | 5.00 | | ug/L |
| 74-87-3 | Chloromethane | ND | 5.00 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 5.00 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 5.00 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.00 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 5.00 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 5.00 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 5.00 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 5.00 | | ug/L |
| 91-20-3 | Naphthalene | ND | 5.00 | | ug/L |
| 100-42-5 | Styrene | ND | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232605 | **MW-19 30** | Water | 12/19/2013 14:09 | 12/21/2013 12:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 12/26/2013 14:07 | LBH | 522612 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | ND | 5.00 | | ug/L |
| 108-88-3 | Toluene | ND | 5.00 | | ug/L |
| 79-01-6 | Trichloroethene | ND | 5.00 | | ug/L |
| 75-69-4 | Trichlorofluoromethane | ND | 5.00 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.00 | | ug/L |
| **75-01-4** | **Vinyl chloride** | **17.7** | **5.00** | | **ug/L** |
| 1330-20-7 | Xylene (total) | ND | 15.0 | | ug/L |
| **156-59-2** | **cis-1,2-Dichloroethene** | **61.1** | **5.00** | | **ug/L** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 10.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 5.00 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | | ug/L |
| 95-47-6 | o-Xylene | ND | 5.00 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 5.00 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 5.00 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 5.00 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.00 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 50 | 48.5 | ug/L | 97 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 50 | 52.7 | ug/L | 105 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 50 | 49.2 | ug/L | 98 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50 | 52.9 | ug/L | 106 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232606 | **MW-20 60** | Water | 12/19/2013 10:46 | 12/21/2013 12:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 20 | 12/26/2013 14:28 | LBH | 522612 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **1270** | **100** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 1000 | 961 | ug/L | 96 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 1000 | 1060 | ug/L | 106 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 1000 | 1010 | ug/L | 101 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 1000 | 1000 | ug/L | 100 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 2 | 12/26/2013 14:50 | LBH | 522612 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 10.0 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 10.0 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 10.0 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 10.0 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 10.0 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 10.0 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 10.0 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 10.0 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 10.0 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 10.0 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10.0 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 10.0 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 10.0 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 10.0 | | ug/L |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **168** | **20.0** | | **ug/L** |
| 78-87-5 | 1,2-Dichloropropane | ND | 10.0 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 10.0 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 10.0 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 10.0 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 10.0 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 10.0 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 10.0 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 10.0 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 10.0 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 10.0 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 10.0 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 10.0 | | ug/L |
| 67-64-1 | Acetone | ND | 10.0 | | ug/L |
| 71-43-2 | Benzene | ND | 10.0 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 10.0 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 10.0 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 10.0 | | ug/L |
| 75-25-2 | Bromoform | ND | 10.0 | | ug/L |
| 74-83-9 | Bromomethane | ND | 10.0 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 10.0 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232606 | **MW-20 60** | Water | 12/19/2013 10:46 | 12/21/2013 12:40 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 2 | 12/26/2013 14:50 | LBH | 522612 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | ND | 10.0 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 10.0 | | ug/L |
| 75-00-3 | Chloroethane | ND | 10.0 | | ug/L |
| 67-66-3 | Chloroform | ND | 10.0 | | ug/L |
| 74-87-3 | Chloromethane | ND | 10.0 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 10.0 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 10.0 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 10.0 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 10.0 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 10.0 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 10.0 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 10.0 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 10.0 | | ug/L |
| 91-20-3 | Naphthalene | ND | 10.0 | | ug/L |
| 100-42-5 | Styrene | ND | 10.0 | | ug/L |
| 108-88-3 | Toluene | ND | 10.0 | | ug/L |
| **79-01-6** | **Trichloroethene** | **154** | **10.0** | | **ug/L** |
| 75-69-4 | Trichlorofluoromethane | ND | 10.0 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 10.0 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 10.0 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 30.0 | | ug/L |
| **156-59-2** | **cis-1,2-Dichloroethene** | **165** | **10.0** | | **ug/L** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 10.0 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 20.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 10.0 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 10.0 | | ug/L |
| 95-47-6 | o-Xylene | ND | 10.0 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 10.0 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 10.0 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 10.0 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 10.0 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 10.0 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 10.0 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 100 | 95.7 | ug/L | 96 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 100 | 106 | ug/L | 106 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 100 | 101 | ug/L | 101 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 100 | 103 | ug/L | 103 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232607 | **MW-21 60** | Water | 12/18/2013 11:13 | 12/21/2013 12:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 100 | 12/26/2013 18:21 | CLH | 522612 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **5760** | **500** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 5000 | 4870 | ug/L | 97 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 5000 | 5300 | ug/L | 106 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 5000 | 4990 | ug/L | 100 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 5000 | 5230 | ug/L | 105 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 10 | 12/26/2013 18:42 | CLH | 522612 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 50.0 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 50.0 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 50.0 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 50.0 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 50.0 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 50.0 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 50.0 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 50.0 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 50.0 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 50.0 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 50.0 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 50.0 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 50.0 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 50.0 | | ug/L |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 100 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 50.0 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 50.0 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 50.0 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 50.0 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 50.0 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 50.0 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 50.0 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 50.0 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 50.0 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 50.0 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 50.0 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 50.0 | | ug/L |
| 67-64-1 | Acetone | ND | 50.0 | | ug/L |
| 71-43-2 | Benzene | ND | 50.0 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 50.0 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 50.0 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 50.0 | | ug/L |
| 75-25-2 | Bromoform | ND | 50.0 | | ug/L |
| 74-83-9 | Bromomethane | ND | 50.0 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 50.0 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232607 | **MW-21 60** | Water | 12/18/2013 11:13 | 12/21/2013 12:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 10 | 12/26/2013 18:42 | CLH | 522612 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | ND | 50.0 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 50.0 | | ug/L |
| 75-00-3 | Chloroethane | ND | 50.0 | | ug/L |
| 67-66-3 | Chloroform | ND | 50.0 | | ug/L |
| 74-87-3 | Chloromethane | ND | 50.0 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 50.0 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 50.0 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 50.0 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 50.0 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 50.0 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 50.0 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 50.0 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 50.0 | | ug/L |
| 91-20-3 | Naphthalene | ND | 50.0 | | ug/L |
| 100-42-5 | Styrene | ND | 50.0 | | ug/L |
| 108-88-3 | Toluene | ND | 50.0 | | ug/L |
| **79-01-6** | **Trichloroethene** | **105** | **50.0** | | **ug/L** |
| 75-69-4 | Trichlorofluoromethane | ND | 50.0 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 50.0 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 50.0 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 150 | | ug/L |
| **156-59-2** | **cis-1,2-Dichloroethene** | **58.4** | **50.0** | | **ug/L** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 50.0 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 100 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 50.0 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 50.0 | | ug/L |
| 95-47-6 | o-Xylene | ND | 50.0 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 50.0 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 50.0 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 50.0 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 50.0 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 50.0 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 50.0 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 500 | 481 | ug/L | 96 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 500 | 527 | ug/L | 105 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 500 | 491 | ug/L | 98 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 500 | 508 | ug/L | 102 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232608 | **MW-22 60** | Water | 12/18/2013 13:43 | 12/21/2013 12:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 20 | 12/26/2013 19:24 | CLH | 522612 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **1200** | **100** | | **ug/L** |
| **156-59-2** | **cis-1,2-Dichloroethene** | **552** | **100** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 1000 | 952 | ug/L | 95 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 1000 | 1060 | ug/L | 106 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 1000 | 996 | ug/L | 100 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 1000 | 1020 | ug/L | 102 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 2 | 12/26/2013 19:46 | CLH | 522612 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 10.0 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 10.0 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 10.0 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 10.0 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 10.0 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 10.0 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 10.0 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 10.0 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 10.0 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 10.0 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10.0 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 10.0 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 10.0 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 10.0 | | ug/L |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **693** | **20.0** | | **ug/L** |
| 78-87-5 | 1,2-Dichloropropane | ND | 10.0 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 10.0 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 10.0 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 10.0 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 10.0 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 10.0 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 10.0 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 10.0 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 10.0 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 10.0 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 10.0 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 10.0 | | ug/L |
| 67-64-1 | Acetone | ND | 10.0 | | ug/L |
| 71-43-2 | Benzene | ND | 10.0 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 10.0 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 10.0 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 10.0 | | ug/L |
| 75-25-2 | Bromoform | ND | 10.0 | | ug/L |
| 74-83-9 | Bromomethane | ND | 10.0 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232608 | **MW-22 60** | Water | 12/18/2013 13:43 | 12/21/2013 12:40 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 2 | 12/26/2013 19:46 | CLH | 522612 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 75-15-0 | Carbon disulfide | ND | 10.0 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 10.0 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 10.0 | | ug/L |
| 75-00-3 | Chloroethane | ND | 10.0 | | ug/L |
| 67-66-3 | Chloroform | ND | 10.0 | | ug/L |
| 74-87-3 | Chloromethane | ND | 10.0 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 10.0 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 10.0 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 10.0 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 10.0 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 10.0 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 10.0 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 10.0 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 10.0 | | ug/L |
| 91-20-3 | Naphthalene | ND | 10.0 | | ug/L |
| 100-42-5 | Styrene | ND | 10.0 | | ug/L |
| 108-88-3 | Toluene | ND | 10.0 | | ug/L |
| **79-01-6** | **Trichloroethene** | **239** | **10.0** | | **ug/L** |
| 75-69-4 | Trichlorofluoromethane | ND | 10.0 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 10.0 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 10.0 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 30.0 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 10.0 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 20.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 10.0 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 10.0 | | ug/L |
| 95-47-6 | o-Xylene | ND | 10.0 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 10.0 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 10.0 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 10.0 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 10.0 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 10.0 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 10.0 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 100 | 94 | ug/L | 94 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 100 | 102 | ug/L | 102 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 100 | 101 | ug/L | 101 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 100 | 104 | ug/L | 104 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232609 | **MW-23 60** | Water | 12/18/2013 15:05 | 12/21/2013 12:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 20 | 12/27/2013 15:33 | AMD | 522685 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **540-59-0** | **1,2-Dichloroethene(Total)** | **2750** | **200** | | **ug/L** |
| **127-18-4** | **Tetrachloroethene** | **1270** | **100** | | **ug/L** |
| **156-59-2** | **cis-1,2-Dichloroethene** | **2750** | **100** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 1000 | 982 | ug/L | 98 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 1000 | 1020 | ug/L | 102 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 1000 | 1010 | ug/L | 101 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 1000 | 1030 | ug/L | 103 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 2 | 12/27/2013 16:58 | AMD | 522685 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 10.0 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 10.0 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 10.0 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 10.0 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 10.0 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 10.0 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 10.0 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 10.0 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 10.0 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 10.0 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10.0 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 10.0 | | ug/L |
| **95-50-1** | **1,2-Dichlorobenzene** | **10.5** | **10.0** | | **ug/L** |
| 107-06-2 | 1,2-Dichloroethane | ND | 10.0 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 10.0 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 10.0 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 10.0 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 10.0 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 10.0 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 10.0 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 10.0 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 10.0 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 10.0 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 10.0 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 10.0 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 10.0 | | ug/L |
| 67-64-1 | Acetone | ND | 10.0 | | ug/L |
| 71-43-2 | Benzene | ND | 10.0 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 10.0 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 10.0 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 10.0 | | ug/L |
| 75-25-2 | Bromoform | ND | 10.0 | | ug/L |
| 74-83-9 | Bromomethane | ND | 10.0 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232609 | **MW-23 60** | Water | 12/18/2013 15:05 | 12/21/2013 12:40 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 2 | 12/27/2013 16:58 | AMD | 522685 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 75-15-0 | Carbon disulfide | ND | 10.0 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 10.0 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 10.0 | | ug/L |
| 75-00-3 | Chloroethane | ND | 10.0 | | ug/L |
| **67-66-3** | **Chloroform** | **12.6** | **10.0** | | **ug/L** |
| 74-87-3 | Chloromethane | ND | 10.0 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 10.0 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 10.0 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 10.0 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 10.0 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 10.0 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 10.0 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 10.0 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 10.0 | | ug/L |
| 91-20-3 | Naphthalene | ND | 10.0 | | ug/L |
| 100-42-5 | Styrene | ND | 10.0 | | ug/L |
| 108-88-3 | Toluene | ND | 10.0 | | ug/L |
| **79-01-6** | **Trichloroethene** | **304** | **10.0** | | **ug/L** |
| 75-69-4 | Trichlorofluoromethane | ND | 10.0 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 10.0 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 10.0 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 30.0 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 10.0 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 20.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 10.0 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 10.0 | | ug/L |
| 95-47-6 | o-Xylene | ND | 10.0 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 10.0 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 10.0 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 10.0 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 10.0 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 10.0 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 10.0 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 100 | 102 | ug/L | 102 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 100 | 101 | ug/L | 101 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 100 | 101 | ug/L | 101 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 100 | 103 | ug/L | 103 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232610 | **MW-24 30** | Water | 12/19/2013 09:42 | 12/21/2013 12:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 5 | 12/27/2013 16:16 | AMD | 522685 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **540-59-0** | **1,2-Dichloroethene(Total)** | **647** | **50.0** | | **ug/L** |
| **127-18-4** | **Tetrachloroethene** | **356** | **25.0** | | **ug/L** |
| **156-59-2** | **cis-1,2-Dichloroethene** | **647** | **25.0** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 250 | 247 | ug/L | 99 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 250 | 262 | ug/L | 105 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 250 | 248 | ug/L | 99 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 250 | 268 | ug/L | 107 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 12/27/2013 16:36 | AMD | 522685 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.00 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.00 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.00 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.00 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.00 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.00 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.00 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.00 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.00 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.00 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.00 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.00 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.00 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.00 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.00 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.00 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.00 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.00 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 5.00 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 5.00 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 5.00 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 5.00 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 5.00 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | | ug/L |
| 67-64-1 | Acetone | ND | 5.00 | | ug/L |
| 71-43-2 | Benzene | ND | 5.00 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 5.00 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 5.00 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 5.00 | | ug/L |
| 75-25-2 | Bromoform | ND | 5.00 | | ug/L |
| 74-83-9 | Bromomethane | ND | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232610 | **MW-24 30** | Water | 12/19/2013 09:42 | 12/21/2013 12:40 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 12/27/2013 16:36 | AMD | 522685 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 75-15-0 | Carbon disulfide | ND | 5.00 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 5.00 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 5.00 | | ug/L |
| 75-00-3 | Chloroethane | ND | 5.00 | | ug/L |
| **67-66-3** | **Chloroform** | **8.76** | **5.00** | | **ug/L** |
| 74-87-3 | Chloromethane | ND | 5.00 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 5.00 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 5.00 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.00 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 5.00 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 5.00 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 5.00 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 5.00 | | ug/L |
| 91-20-3 | Naphthalene | ND | 5.00 | | ug/L |
| 100-42-5 | Styrene | ND | 5.00 | | ug/L |
| 108-88-3 | Toluene | ND | 5.00 | | ug/L |
| **79-01-6** | **Trichloroethene** | **144** | **5.00** | | **ug/L** |
| 75-69-4 | Trichlorofluoromethane | ND | 5.00 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.00 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 5.00 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 15.0 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 10.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 5.00 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | | ug/L |
| 95-47-6 | o-Xylene | ND | 5.00 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 5.00 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 5.00 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 5.00 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.00 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 50 | 50.9 | ug/L | 102 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 50 | 52 | ug/L | 104 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 50 | 50.8 | ug/L | 102 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50 | 52 | ug/L | 104 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232611 | **PT-3 60** | Water | 12/19/2013 11:28 | 12/21/2013 12:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 500 | 12/27/2013 15:52 | AMD | 522685 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **540-59-0** | **1,2-Dichloroethene(Total)** | **40300** | **5000** | | **ug/L** |
| **156-59-2** | **cis-1,2-Dichloroethene** | **40300** | **2500** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 25000 | 24800 | ug/L | 99 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 25000 | 25500 | ug/L | 102 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 25000 | 25600 | ug/L | 102 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 25000 | 27100 | ug/L | 108 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 12/27/2013 17:18 | JCK | 522685 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 250 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 250 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 250 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 250 | | ug/L |
| **75-34-3** | **1,1-Dichloroethane** | **356** | **250** | | **ug/L** |
| 75-35-4 | 1,1-Dichloroethene | ND | 250 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 250 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 250 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 250 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 250 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 250 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 250 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 250 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 250 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 250 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 250 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 250 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 250 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 250 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 250 | | ug/L |
| **78-93-3** | **2-Butanone** | **471** | **250** | | **ug/L** |
| 95-49-8 | 2-Chlorotoluene | ND | 250 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 250 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 250 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 250 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 250 | | ug/L |
| **67-64-1** | **Acetone** | **9460** | **250** | | **ug/L** |
| 71-43-2 | Benzene | ND | 250 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 250 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 250 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 250 | | ug/L |
| 75-25-2 | Bromoform | ND | 250 | | ug/L |
| 74-83-9 | Bromomethane | ND | 250 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 250 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21312232611 | **PT-3 60** | Water | 12/19/2013 11:28 | 12/21/2013 12:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 12/27/2013 17:18 | JCK | 522685 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | ND | 250 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 250 | | ug/L |
| 75-00-3 | Chloroethane | ND | 250 | | ug/L |
| 67-66-3 | Chloroform | ND | 250 | | ug/L |
| 74-87-3 | Chloromethane | ND | 250 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 250 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 250 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 250 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 250 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 250 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 250 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 250 | | ug/L |
| **75-09-2** | **Methylene chloride** | **531** | **250** | | **ug/L** |
| 91-20-3 | Naphthalene | ND | 250 | | ug/L |
| 100-42-5 | Styrene | ND | 250 | | ug/L |
| **127-18-4** | **Tetrachloroethene** | **9120** | **250** | | **ug/L** |
| 108-88-3 | Toluene | ND | 250 | | ug/L |
| **79-01-6** | **Trichloroethene** | **1250** | **250** | | **ug/L** |
| 75-69-4 | Trichlorofluoromethane | ND | 250 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 250 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 250 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 750 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 250 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 500 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 250 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 250 | | ug/L |
| 95-47-6 | o-Xylene | ND | 250 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 250 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 250 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 250 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 250 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 250 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 250 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 2500 | 2510 | ug/L | 100 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 2500 | 2590 | ug/L | 104 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 2500 | 2500 | ug/L | 100 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 2500 | 2660 | ug/L | 106 | 71 - 127 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 522612 | **Client ID** | MB522612 | | | LCS522612 | | | LCSD522612 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1269080 | | | 1269081 | | | 1269082 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 12/26/2013 10:39 | | | 12/26/2013 09:09 | | | 12/26/2013 09:37 | | |
| | | **Matrix** | Water | | | Water | | | Water | | |
| **EPA 8260B** | | **Units** | **Result** | ug/L **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 67-64-1 | Acetone | | ND | 5.00 | 50.0 | 43.7 | 87 | 44 - 156 | 47.7 | 95 | 9 | 30 |
| 74-97-5 | Bromochloromethane | | ND | 5.00 | 50.0 | 54.6 | 109 | 76 - 130 | 58.6 | 117 | 7 | 30 |
| 75-27-4 | Bromodichloromethane | | ND | 5.00 | 50.0 | 52.5 | 105 | 74 - 125 | 54.3 | 109 | 3 | 30 |
| 75-25-2 | Bromoform | | ND | 5.00 | 50.0 | 48.2 | 96 | 64 - 122 | 51.6 | 103 | 7 | 30 |
| 74-83-9 | Bromomethane | | ND | 5.00 | 50.0 | 49.5 | 99 | 47 - 138 | 49.8 | 100 | 1 | 30 |
| 75-15-0 | Carbon disulfide | | ND | 5.00 | 50.0 | 49.5 | 99 | 69 - 136 | 49.1 | 98 | 1 | 30 |
| 56-23-5 | Carbon tetrachloride | | ND | 5.00 | 50.0 | 51.9 | 104 | 76 - 128 | 50.5 | 101 | 3 | 30 |
| 75-00-3 | Chloroethane | | ND | 5.00 | 50.0 | 54.0 | 108 | 62 - 141 | 53.6 | 107 | 1 | 30 |
| 136777-61-2 | m,p-Xylene | | ND | 10.0 | 100 | 100 | 100 | 74 - 126 | 99.7 | 100 | 0 | 30 |
| 67-66-3 | Chloroform | | ND | 5.00 | 50.0 | 51.5 | 103 | 75 - 122 | 53.4 | 107 | 4 | 30 |
| 74-87-3 | Chloromethane | | ND | 5.00 | 50.0 | 48.9 | 98 | 59 - 132 | 52.9 | 106 | 8 | 30 |
| 124-48-1 | Dibromochloromethane | | ND | 5.00 | 50.0 | 51.8 | 104 | 71 - 123 | 54.6 | 109 | 5 | 30 |
| 74-95-3 | Dibromomethane | | ND | 5.00 | 50.0 | 50.8 | 102 | 72 - 129 | 54.7 | 109 | 7 | 30 |
| 75-71-8 | Dichlorodifluoromethane | | ND | 5.00 | 50.0 | 44.3 | 89 | 58 - 140 | 43.7 | 87 | 1 | 30 |
| 75-34-3 | 1,1-Dichloroethane | | ND | 5.00 | 50.0 | 53.8 | 108 | 74 - 127 | 54.0 | 108 | 0 | 30 |
| 107-06-2 | 1,2-Dichloroethane | | ND | 5.00 | 50.0 | 49.5 | 99 | 71 - 129 | 52.7 | 105 | 6 | 30 |
| 156-59-2 | cis-1,2-Dichloroethene | | ND | 5.00 | 50.0 | 53.7 | 107 | 73 - 130 | 55.3 | 111 | 3 | 30 |
| 156-60-5 | trans-1,2-Dichloroethene | | ND | 5.00 | 50.0 | 52.0 | 104 | 69 - 132 | 53.0 | 106 | 2 | 30 |
| 75-09-2 | Methylene chloride | | ND | 5.00 | 50.0 | 47.4 | 95 | 68 - 132 | 48.7 | 97 | 3 | 30 |
| 78-87-5 | 1,2-Dichloropropane | | ND | 5.00 | 50.0 | 52.1 | 104 | 72 - 128 | 54.0 | 108 | 4 | 30 |
| 10061-01-5 | cis-1,3-Dichloropropene | | ND | 5.00 | 50.0 | 49.3 | 99 | 71 - 132 | 51.4 | 103 | 4 | 30 |
| 10061-02-6 | trans-1,3-Dichloropropene | | ND | 5.00 | 50.0 | 47.8 | 96 | 71 - 131 | 50.6 | 101 | 6 | 30 |
| 100-41-4 | Ethylbenzene | | ND | 5.00 | 50.0 | 53.2 | 106 | 74 - 126 | 53.3 | 107 | 0 | 30 |
| 591-78-6 | 2-Hexanone | | ND | 5.00 | 50.0 | 41.7 | 83 | 50 - 135 | 46.3 | 93 | 10 | 30 |
| 98-82-8 | Isopropylbenzene (Cumene) | | ND | 5.00 | 50.0 | 50.0 | 100 | 71 - 125 | 49.0 | 98 | 2 | 30 |
| 78-93-3 | 2-Butanone | | ND | 5.00 | 50.0 | 44.4 | 89 | 58 - 137 | 51.2 | 102 | 14 | 30 |
| 74-88-4 | Methyl iodide | | ND | 5.00 | 50.0 | 50.9 | 102 | 57 - 141 | 44.1 | 88 | 14 | 30 |
| 108-10-1 | 4-Methyl-2-pentanone | | ND | 5.00 | 50.0 | 45.9 | 92 | 57 - 132 | 51.2 | 102 | 11 | 30 |
| 103-65-1 | n-Propylbenzene | | ND | 5.00 | 50.0 | 52.6 | 105 | 75 - 129 | 52.1 | 104 | 1 | 30 |
| 100-42-5 | Styrene | | ND | 5.00 | 50.0 | 47.8 | 96 | 71 - 127 | 48.9 | 98 | 2 | 30 |
| 127-18-4 | Tetrachloroethene | | ND | 5.00 | 50.0 | 56.9 | 114 | 68 - 128 | 57.2 | 114 | 1 | 30 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | | ND | 5.00 | 50.0 | 54.4 | 109 | 75 - 124 | 54.1 | 108 | 1 | 30 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | ND | 5.00 | 50.0 | 45.2 | 90 | 70 - 122 | 49.8 | 100 | 10 | 30 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 522612 | **Client ID** | MB522612 | | | LCS522612 | | | LCSD522612 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1269080 | | | 1269081 | | | 1269082 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 12/26/2013 10:39 | | | 12/26/2013 09:09 | | | 12/26/2013 09:37 | | |
| | | **Matrix** | Water | | | Water | | | Water | | |
| **EPA 8260B** | | **Units** | **Result** | ug/L **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 120-82-1 | 1,2,4-Trichlorobenzene | | ND | 5.00 | 50.0 | 44.8 | 90 | 61 - 135 | 41.5 | 83 | 8 | 30 |
| 71-55-6 | 1,1,1-Trichloroethane | | ND | 5.00 | 50.0 | 55.3 | 111 | 76 - 126 | 56.5 | 113 | 2 | 30 |
| 79-00-5 | 1,1,2-Trichloroethane | | ND | 5.00 | 50.0 | 49.0 | 98 | 72 - 121 | 51.9 | 104 | 6 | 30 |
| 75-69-4 | Trichlorofluoromethane | | ND | 5.00 | 50.0 | 59.4 | 119 | 72 - 136 | 57.8 | 116 | 3 | 30 |
| 96-18-4 | 1,2,3-Trichloropropane | | ND | 5.00 | 50.0 | 43.9 | 88 | 70 - 120 | 49.4 | 99 | 12 | 30 |
| 95-63-6 | 1,2,4-Trimethylbenzene | | ND | 5.00 | 50.0 | 47.0 | 94 | 74 - 125 | 45.6 | 91 | 3 | 30 |
| 108-67-8 | 1,3,5-Trimethylbenzene | | ND | 5.00 | 50.0 | 48.1 | 96 | 71 - 132 | 47.5 | 95 | 1 | 30 |
| 75-01-4 | Vinyl chloride | | ND | 5.00 | 50.0 | 55.9 | 112 | 68 - 132 | 54.1 | 108 | 3 | 30 |
| 95-47-6 | o-Xylene | | ND | 5.00 | 50.0 | 49.5 | 99 | 73 - 130 | 49.6 | 99 | 0 | 30 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | ND | 5.00 | 50.0 | 41.5 | 83 | 57 - 121 | 46.7 | 93 | 12 | 30 |
| 106-93-4 | 1,2-Dibromoethane | | ND | 5.00 | 50.0 | 49.1 | 98 | 70 - 124 | 52.8 | 106 | 7 | 30 |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | | ND | 5.00 | 50.0 | 48.9 | 98 | 71 - 125 | 52.7 | 105 | 7 | 30 |
| 540-59-0 | 1,2-Dichloroethene(Total) | | ND | 10.0 | 100 | 106 | 106 | 74 - 128 | 108 | 108 | 2 | 30 |
| 99-87-6 | 4-Isopropyltoluene | | ND | 5.00 | 50.0 | 47.8 | 96 | 71 - 129 | 46.3 | 93 | 3 | 30 |
| 1330-20-7 | Xylene (total) | | ND | 15.0 | 150 | 150 | 100 | 74 - 127 | 149 | 99 | 1 | 30 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | | ND | 5.00 | 50.0 | 36.2 | 72 | 56 - 132 | 37.5 | 75 | 4 | 30 |
| 594-20-7 | 2,2-Dichloropropane | | ND | 5.00 | 50.0 | 55.6 | 111 | 77 - 124 | 54.9 | 110 | 1 | 30 |
| 76-13-1 | Trichlorotrifluoroethane | | ND | 5.00 | 50.0 | 57.5 | 115 | 72 - 136 | 56.0 | 112 | 3 | 30 |
| 563-58-6 | 1,1-Dichloropropene | | ND | 5.00 | 50.0 | 55.7 | 111 | 72 - 131 | 55.1 | 110 | 1 | 30 |
| 142-28-9 | 1,3-Dichloropropane | | ND | 5.00 | 50.0 | 50.5 | 101 | 74 - 122 | 53.5 | 107 | 6 | 30 |
| 108-86-1 | Bromobenzene | | ND | 5.00 | 50.0 | 51.3 | 103 | 71 - 120 | 49.0 | 98 | 5 | 30 |
| 95-49-8 | 2-Chlorotoluene | | ND | 5.00 | 50.0 | 51.1 | 102 | 72 - 127 | 51.7 | 103 | 1 | 30 |
| 106-43-4 | 4-Chlorotoluene | | ND | 5.00 | 50.0 | 51.9 | 104 | 75 - 126 | 51.8 | 104 | 0 | 30 |
| 98-06-6 | tert-Butylbenzene | | ND | 5.00 | 50.0 | 53.6 | 107 | 72 - 126 | 53.7 | 107 | 0 | 30 |
| 135-98-8 | sec-Butylbenzene | | ND | 5.00 | 50.0 | 48.8 | 98 | 70 - 136 | 48.2 | 96 | 1 | 30 |
| 541-73-1 | 1,3-Dichlorobenzene | | ND | 5.00 | 50.0 | 50.2 | 100 | 74 - 126 | 50.9 | 102 | 1 | 30 |
| 106-46-7 | 1,4-Dichlorobenzene | | ND | 5.00 | 50.0 | 48.7 | 97 | 72 - 122 | 49.1 | 98 | 1 | 30 |
| 104-51-8 | n-Butylbenzene | | ND | 5.00 | 50.0 | 45.7 | 91 | 69 - 134 | 42.9 | 86 | 6 | 30 |
| 95-50-1 | 1,2-Dichlorobenzene | | ND | 5.00 | 50.0 | 50.7 | 101 | 71 - 126 | 52.0 | 104 | 3 | 30 |
| 87-68-3 | Hexachlorobutadiene | | ND | 5.00 | 50.0 | 51.6 | 103 | 61 - 144 | 49.5 | 99 | 4 | 30 |
| 91-20-3 | Naphthalene | | ND | 5.00 | 50.0 | 41.3 | 83 | 57 - 138 | 39.7 | 79 | 4 | 35 |
| 75-35-4 | 1,1-Dichloroethene | | ND | 5.00 | 50.0 | 54.7 | 109 | 69 - 129 | 55.7 | 111 | 2 | 20 |
| 71-43-2 | Benzene | | ND | 5.00 | 50.0 | 53.4 | 107 | 70 - 129 | 53.9 | 108 | 1 | 20 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 522612 | **Client ID** | MB522612 | | | LCS522612 | | | LCSD522612 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1269080 | | | 1269081 | | | 1269082 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 12/26/2013 10:39 | | | 12/26/2013 09:09 | | | 12/26/2013 09:37 | | |
| | | **Matrix** | Water | | | Water | | | Water | | |
| **EPA 8260B** | | **Units** | **Result** | ug/L **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 79-01-6 | Trichloroethene | | ND | 5.00 | 50.0 | 53.8 | 108 | 76 - 129 | 55.2 | 110 | 3 | 20 |
| 108-88-3 | Toluene | | ND | 5.00 | 50.0 | 51.0 | 102 | 72 - 120 | 51.2 | 102 | 0 | 20 |
| 108-90-7 | Chlorobenzene | | ND | 5.00 | 50.0 | 51.1 | 102 | 74 - 123 | 51.8 | 104 | 1 | 20 |
| **Surrogate** | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | | 49.5 | 99 | 50 | 52.7 | 105 | 78 - 130 | 52.7 | 105 | | |
| 1868-53-7 | Dibromofluoromethane | | 51.2 | 102 | 50 | 51 | 102 | 77 - 127 | 51.2 | 102 | | |
| 2037-26-5 | Toluene d8 | | 49.8 | 100 | 50 | 48.3 | 97 | 76 - 134 | 48.6 | 97 | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | | 50.7 | 101 | 50 | 48.9 | 98 | 71 - 127 | 48.5 | 97 | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 522685 | **Client ID** | MB522685 | | | LCS522685 | | | LCSD522685 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1269327 | | | 1269328 | | | 1269329 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 12/27/2013 09:47 | | | 12/27/2013 08:16 | | | 12/27/2013 08:36 | | |
| | | **Matrix** | Water | | | Water | | | Water | | |
| **EPA 8260B** | | **Units** | **Result** | ug/L **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 67-64-1 | Acetone | | ND | 5.00 | 50.0 | 46.1 | 92 | 44 - 156 | 48.9 | 98 | 6 | 30 |
| 74-97-5 | Bromochloromethane | | ND | 5.00 | 50.0 | 48.6 | 97 | 76 - 130 | 49.5 | 99 | 2 | 30 |
| 75-27-4 | Bromodichloromethane | | ND | 5.00 | 50.0 | 50.0 | 100 | 74 - 125 | 51.3 | 103 | 3 | 30 |
| 75-25-2 | Bromoform | | ND | 5.00 | 50.0 | 47.4 | 95 | 64 - 122 | 49.9 | 100 | 5 | 30 |
| 74-83-9 | Bromomethane | | ND | 5.00 | 50.0 | 49.5 | 99 | 47 - 138 | 50.4 | 101 | 2 | 30 |
| 75-15-0 | Carbon disulfide | | ND | 5.00 | 50.0 | 49.8 | 100 | 69 - 136 | 47.3 | 95 | 5 | 30 |
| 56-23-5 | Carbon tetrachloride | | ND | 5.00 | 50.0 | 53.9 | 108 | 76 - 128 | 53.1 | 106 | 1 | 30 |
| 75-00-3 | Chloroethane | | ND | 5.00 | 50.0 | 50.9 | 102 | 62 - 141 | 50.5 | 101 | 1 | 30 |
| 136777-61-2 | m,p-Xylene | | ND | 10.0 | 100 | 96.8 | 97 | 74 - 126 | 96.4 | 96 | 0 | 30 |
| 67-66-3 | Chloroform | | ND | 5.00 | 50.0 | 47.5 | 95 | 75 - 122 | 48.2 | 96 | 1 | 30 |
| 74-87-3 | Chloromethane | | ND | 5.00 | 50.0 | 51.0 | 102 | 59 - 132 | 51.2 | 102 | 0 | 30 |
| 124-48-1 | Dibromochloromethane | | ND | 5.00 | 50.0 | 45.2 | 90 | 71 - 123 | 45.7 | 91 | 1 | 30 |
| 74-95-3 | Dibromomethane | | ND | 5.00 | 50.0 | 50.7 | 101 | 72 - 129 | 51.3 | 103 | 1 | 30 |
| 75-71-8 | Dichlorodifluoromethane | | ND | 5.00 | 50.0 | 50.9 | 102 | 58 - 140 | 50.7 | 101 | 0 | 30 |
| 75-34-3 | 1,1-Dichloroethane | | ND | 5.00 | 50.0 | 47.7 | 95 | 74 - 127 | 48.4 | 97 | 1 | 30 |
| 107-06-2 | 1,2-Dichloroethane | | ND | 5.00 | 50.0 | 47.6 | 95 | 71 - 129 | 49.8 | 100 | 5 | 30 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 522685 | **Client ID** | MB522685 | | | LCS522685 | | | LCSD522685 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1269327 | | | 1269328 | | | 1269329 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 12/27/2013 09:47 | | | 12/27/2013 08:16 | | | 12/27/2013 08:36 | | |
| | | **Matrix** | Water | | | Water | | | Water | | |
| **EPA 8260B** | | **Units** | **Result** | ug/L **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 156-59-2 | cis-1,2-Dichloroethene | | ND | 5.00 | 50.0 | 48.8 | 98 | 73 - 130 | 48.4 | 97 | 1 | 30 |
| 156-60-5 | trans-1,2-Dichloroethene | | ND | 5.00 | 50.0 | 49.0 | 98 | 69 - 132 | 48.7 | 97 | 1 | 30 |
| 75-09-2 | Methylene chloride | | ND | 5.00 | 50.0 | 47.3 | 95 | 68 - 132 | 48.1 | 96 | 2 | 30 |
| 78-87-5 | 1,2-Dichloropropane | | ND | 5.00 | 50.0 | 47.7 | 95 | 72 - 128 | 48.1 | 96 | 1 | 30 |
| 10061-01-5 | cis-1,3-Dichloropropene | | ND | 5.00 | 50.0 | 48.4 | 97 | 71 - 132 | 49.5 | 99 | 2 | 30 |
| 10061-02-6 | trans-1,3-Dichloropropene | | ND | 5.00 | 50.0 | 44.0 | 88 | 71 - 131 | 45.3 | 91 | 3 | 30 |
| 100-41-4 | Ethylbenzene | | ND | 5.00 | 50.0 | 47.9 | 96 | 74 - 126 | 47.8 | 96 | 0 | 30 |
| 591-78-6 | 2-Hexanone | | ND | 5.00 | 50.0 | 41.5 | 83 | 50 - 135 | 42.6 | 85 | 3 | 30 |
| 98-82-8 | Isopropylbenzene (Cumene) | | ND | 5.00 | 50.0 | 49.1 | 98 | 71 - 125 | 47.7 | 95 | 3 | 30 |
| 78-93-3 | 2-Butanone | | ND | 5.00 | 50.0 | 47.6 | 95 | 58 - 137 | 47.9 | 96 | 1 | 30 |
| 74-88-4 | Methyl iodide | | ND | 5.00 | 50.0 | 44.9 | 90 | 57 - 141 | 46.0 | 92 | 2 | 30 |
| 108-10-1 | 4-Methyl-2-pentanone | | ND | 5.00 | 50.0 | 45.1 | 90 | 57 - 132 | 46.8 | 94 | 4 | 30 |
| 103-65-1 | n-Propylbenzene | | ND | 5.00 | 50.0 | 47.2 | 94 | 75 - 129 | 46.0 | 92 | 3 | 30 |
| 100-42-5 | Styrene | | ND | 5.00 | 50.0 | 47.8 | 96 | 71 - 127 | 48.3 | 97 | 1 | 30 |
| 127-18-4 | Tetrachloroethene | | ND | 5.00 | 50.0 | 48.4 | 97 | 68 - 128 | 47.4 | 95 | 2 | 30 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | | ND | 5.00 | 50.0 | 48.5 | 97 | 75 - 124 | 50.1 | 100 | 3 | 30 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | ND | 5.00 | 50.0 | 46.0 | 92 | 70 - 122 | 47.0 | 94 | 2 | 30 |
| 120-82-1 | 1,2,4-Trichlorobenzene | | ND | 5.00 | 50.0 | 49.8 | 100 | 61 - 135 | 46.7 | 93 | 6 | 30 |
| 71-55-6 | 1,1,1-Trichloroethane | | ND | 5.00 | 50.0 | 50.2 | 100 | 76 - 126 | 50.5 | 101 | 1 | 30 |
| 79-00-5 | 1,1,2-Trichloroethane | | ND | 5.00 | 50.0 | 45.6 | 91 | 72 - 121 | 45.7 | 91 | 0 | 30 |
| 75-69-4 | Trichlorofluoromethane | | ND | 5.00 | 50.0 | 52.7 | 105 | 72 - 136 | 52.1 | 104 | 1 | 30 |
| 96-18-4 | 1,2,3-Trichloropropane | | ND | 5.00 | 50.0 | 43.8 | 88 | 70 - 120 | 48.7 | 97 | 11 | 30 |
| 95-63-6 | 1,2,4-Trimethylbenzene | | ND | 5.00 | 50.0 | 47.6 | 95 | 74 - 125 | 46.9 | 94 | 1 | 30 |
| 108-67-8 | 1,3,5-Trimethylbenzene | | ND | 5.00 | 50.0 | 47.8 | 96 | 71 - 132 | 46.9 | 94 | 2 | 30 |
| 75-01-4 | Vinyl chloride | | ND | 5.00 | 50.0 | 55.7 | 111 | 68 - 132 | 54.6 | 109 | 2 | 30 |
| 95-47-6 | o-Xylene | | ND | 5.00 | 50.0 | 47.5 | 95 | 73 - 130 | 46.2 | 92 | 3 | 30 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | ND | 5.00 | 50.0 | 43.9 | 88 | 57 - 121 | 47.6 | 95 | 8 | 30 |
| 106-93-4 | 1,2-Dibromoethane | | ND | 5.00 | 50.0 | 46.4 | 93 | 70 - 124 | 48.5 | 97 | 4 | 30 |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | | ND | 5.00 | 50.0 | 45.8 | 92 | 71 - 125 | 46.8 | 94 | 2 | 30 |
| 540-59-0 | 1,2-Dichloroethene(Total) | | ND | 10.0 | 100 | 97.8 | 98 | 74 - 128 | 97.0 | 97 | 1 | 30 |
| 99-87-6 | 4-Isopropyltoluene | | ND | 5.00 | 50.0 | 50.2 | 100 | 71 - 129 | 46.9 | 94 | 7 | 30 |
| 1330-20-7 | Xylene (total) | | ND | 15.0 | 150 | 144 | 96 | 74 - 127 | 143 | 95 | 1 | 30 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | | ND | 5.00 | 50.0 | 41.9 | 84 | 56 - 132 | 41.9 | 84 | 0 | 30 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 522685 | **Client ID** | MB522685 | | | LCS522685 | | | LCSD522685 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1269327 | | | 1269328 | | | 1269329 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 12/27/2013 09:47 | | | 12/27/2013 08:16 | | | 12/27/2013 08:36 | | |
| | | **Matrix** | Water | | | Water | | | Water | | |
| **EPA 8260B** | | **Units** | **Result** | ug/L **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 594-20-7 | 2,2-Dichloropropane | | ND | 5.00 | 50.0 | 51.3 | 103 | 77 - 124 | 51.8 | 104 | 1 | 30 |
| 76-13-1 | Trichlorotrifluoroethane | | ND | 5.00 | 50.0 | 54.0 | 108 | 72 - 136 | 52.6 | 105 | 3 | 30 |
| 563-58-6 | 1,1-Dichloropropene | | ND | 5.00 | 50.0 | 49.7 | 99 | 72 - 131 | 49.8 | 100 | 0 | 30 |
| 142-28-9 | 1,3-Dichloropropane | | ND | 5.00 | 50.0 | 45.5 | 91 | 74 - 122 | 47.6 | 95 | 5 | 30 |
| 108-86-1 | Bromobenzene | | ND | 5.00 | 50.0 | 44.8 | 90 | 71 - 120 | 45.5 | 91 | 2 | 30 |
| 95-49-8 | 2-Chlorotoluene | | ND | 5.00 | 50.0 | 46.0 | 92 | 72 - 127 | 46.3 | 93 | 1 | 30 |
| 106-43-4 | 4-Chlorotoluene | | ND | 5.00 | 50.0 | 46.5 | 93 | 75 - 126 | 45.7 | 91 | 2 | 30 |
| 98-06-6 | tert-Butylbenzene | | ND | 5.00 | 50.0 | 47.9 | 96 | 72 - 126 | 45.7 | 91 | 5 | 30 |
| 135-98-8 | sec-Butylbenzene | | ND | 5.00 | 50.0 | 49.4 | 99 | 70 - 136 | 46.3 | 93 | 6 | 30 |
| 541-73-1 | 1,3-Dichlorobenzene | | ND | 5.00 | 50.0 | 47.3 | 95 | 74 - 126 | 46.5 | 93 | 2 | 30 |
| 106-46-7 | 1,4-Dichlorobenzene | | ND | 5.00 | 50.0 | 46.9 | 94 | 72 - 122 | 46.9 | 94 | 0 | 30 |
| 104-51-8 | n-Butylbenzene | | ND | 5.00 | 50.0 | 50.6 | 101 | 69 - 134 | 47.6 | 95 | 6 | 30 |
| 95-50-1 | 1,2-Dichlorobenzene | | ND | 5.00 | 50.0 | 47.4 | 95 | 71 - 126 | 46.9 | 94 | 1 | 30 |
| 87-68-3 | Hexachlorobutadiene | | ND | 5.00 | 50.0 | 53.9 | 108 | 61 - 144 | 46.9 | 94 | 14 | 30 |
| 91-20-3 | Naphthalene | | ND | 5.00 | 50.0 | 40.7 | 81 | 57 - 138 | 40.7 | 81 | 0 | 35 |
| 75-35-4 | 1,1-Dichloroethene | | ND | 5.00 | 50.0 | 50.2 | 100 | 69 - 129 | 49.9 | 100 | 1 | 20 |
| 71-43-2 | Benzene | | ND | 5.00 | 50.0 | 47.6 | 95 | 70 - 129 | 48.2 | 96 | 1 | 20 |
| 79-01-6 | Trichloroethene | | ND | 5.00 | 50.0 | 49.0 | 98 | 76 - 129 | 50.2 | 100 | 2 | 20 |
| 108-88-3 | Toluene | | ND | 5.00 | 50.0 | 46.1 | 92 | 72 - 120 | 47.1 | 94 | 2 | 20 |
| 108-90-7 | Chlorobenzene | | ND | 5.00 | 50.0 | 46.6 | 93 | 74 - 123 | 47.1 | 94 | 1 | 20 |
| **Surrogate** | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | | 49.6 | 99 | 50 | 51.3 | 103 | 78 - 130 | 51.5 | 103 | | |
| 1868-53-7 | Dibromofluoromethane | | 51.8 | 104 | 50 | 53.3 | 107 | 77 - 127 | 51.9 | 104 | | |
| 2037-26-5 | Toluene d8 | | 50.3 | 101 | 50 | 49.8 | 100 | 76 - 134 | 49.1 | 98 | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | | 51.9 | 104 | 50 | 51.2 | 102 | 71 - 127 | 50.8 | 102 | | |

# GCAL

Chain of Custody Record

7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

Lab use only

| Client Name | Client # | Workorder # | Due Date |
|---|---|---|---|
| | | | |

**Report to:**
Client: Sage Env. Consulting
Address: 600 Chastain Rd, Ste 320, Kennesaw GA 30144
Contact: Jack Wintle
Phone: 678 431-0130
Fax:

**Bill to:**
Client: same
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number: Rayloc / 1221-1
Sampled By: Jack Wintle / Damian Mason

Analytical Requests & Method: 8260 B

**Lab use only:**
Custody Seal used ☐ yes ☐ no
intact ☑ yes ☐ no
Temperature °C 2.7 EDD

| Matrix[1] | Date | Time (2400) | Comp | Grab | Sample Description | Preservatives | No Containers | 8260 B | Remarks: | Lab ID |
|---|---|---|---|---|---|---|---|---|---|---|
| W | 12/19 | 12:59 | | ✓ | MW-7 @ 30' | HCL | 3 | ✓ | | 12/23 1 |
| | | 8:51 | | ✓ | MW-12 @ 60' | | | | | 2 |
| | | 2:52 | | | MW-15 @ 30' | | | | | 3 |
| | | 1:38 | | | MW-17 @ 25' | | | | | 4 |
| | | 2:09 | | | MW-19 @ 30' | | | | | 5 |
| | | 10:46 | | | MW-20 @ 60' | | | | | 6 |
| | 12/18 | 11:13 | | | MW-21 @ 60' | | | | | 7 |
| | 12/18 | 1:43 | | | MW-22 @ 60' | | | | | 8 |
| | 12/18 | 3:05 | | | MW-23 @ 60' | | | | | 9 |
| | 12/19 | 9:42 | | | MW-24 @ 30' | | | | | 10 |
| | 12/19 | 11:28 | | | PT-3 @ 60' | | | | | 11 |

Client ID: 4642 - Sage Environmental
SDG: 213122326
Due Date: 12/25/13

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other 7974 7116 8149

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| Jack Wintle | Brad Pickens | 12/20/13 | 1040 |
| FEDEX | [illegible] | 12/20/13 | 1240 |
| | | | |

Note: Please review notes from the last run of Rayloc samples (Oct 2013) - or call me - Jack

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

[1] Soil SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

GCAL ANALYTICAL LABORATORIES, LLC

# SAMPLE RECEIVING CHECKLIST

*213122326*

| SAMPLE DELIVERY GROUP 213122326 | |
|---|---|
| **Client**<br>4642 - Sage Environmental | **Transport Method**<br>FEDEX |
| **Profile Number**<br>240745 | **Received By**<br>Law, Brittany P. |
| **Line Item(s)**<br>1 - VOC | **Receive Date(s)**<br>12/21/13 |

| CHECKLIST | YES | NO | NA |
|---|---|---|---|
| Were all samples received using proper thermal preservation? | ☑ | ☐ | ☐ |
| When used, were all custody seals intact? | ☑ | ☐ | ☐ |
| Were all samples received in proper containers? | ☑ | ☐ | ☐ |
| Were all samples received using proper chemical preservation? | ☑ | ☐ | ☐ |
| Was preservative added to any container at the lab? | ☐ | ☑ | ☐ |
| Were all containers received in good condition? | ☑ | ☐ | ☐ |
| Were all VOA vials received with no head space? | ☑ | ☐ | ☐ |
| Do all sample labels match the Chain of Custody? | ☑ | ☐ | ☐ |
| Did the Chain of Custody list the sampling technician? | ☑ | ☐ | ☐ |
| Was the COC maintained i.e. all signatures, dates and time of receipt included? | ☑ | ☐ | ☐ |

## COOLERS

| Airbill | Thermometer ID: E22 | Temp(°C) |
|---|---|---|
| 797471761349 | | 2.7 |

## DISCREPANCIES

None

## LAB PRESERVATIONS

None

## NOTES

*NELAP CERTIFICATE NUMBER 01955*
*DOD ELAP CERTIFICATE NUMBER L13-190*

# ANALYTICAL RESULTS

**PERFORMED BY**


**GULF COAST ANALYTICAL LABORATORIES, INC.**

**7979 Innovation Park Dr.**

**Baton Rouge, LA 70820**


**Report Date** 03/24/2014

**GCAL Report** 214031702

| | |
|---|---|
| ***Deliver To*** | Sage Environmental Services<br>600 Chastain Rd.<br>Kennesaw, GA 30144<br>678-431-0130 |
| ***Attn*** | Jack Wintle |

***Project*** Rayloc VOCs

Revision 1

CASE NARRATIVE

**Client:** Sage Environmental **Report:** 214031702

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

**VOLATILES MASS SPECTROMETRY**

In the EPA 8260B analysis, samples 21403170201 (MW-23 AT 60), 21403170202 (MW-22 AT 60)21403170203 (MW-21 AT 60), 21403170204 (MW-12 AT 60), 21403170205 (MW-24 AT 60), 21403170206 (MW-20 AT 60), 21403170207 (PT-3 AT 60), and 21403170208 (MW-17 AT 25) had to be diluted to bracket the concentration of target compounds within the calibration range of the instrument and/or to eliminate the presence of non-target background. The dilution is reflected in elevated detection limits.

# Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

**Common Abbreviations Utilized in this Report**

| | |
|---|---|
| **ND** | Indicates the result was Not Detected at the specified RDL |
| **DO** | Indicates the result was Diluted Out |
| **MI** | Indicates the result was subject to Matrix Interference |
| **TNTC** | Indicates the result was Too Numerous To Count |
| **SUBC** | Indicates the analysis was Sub-Contracted |
| **FLD** | Indicates the analysis was performed in the Field |
| **PQL** | Practical Quantitation Limit |
| **MDL** | Method Detection Limit |
| **RDL** | Reporting Detection Limit |
| **00:00** | Reported as a time equivalent to 12:00 AM |

**Reporting Flags Utilized in this Report**

| | |
|---|---|
| **J** | Indicates the result is between the MDL and RDL |
| **U** | Indicates the compound was analyzed for but not detected |
| **B** | Indicates the analyte was detected in the associated Method Blank |

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

_____

Authorized Signature
**GCAL REPORT** 214031702

# Report Sample Summary

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170201 | MW-23 AT 60 | Water | 03/12/2014 09:22 | 03/15/2014 09:40 |
| 21403170202 | MW-22 AT 60 | Water | 03/12/2014 10:23 | 03/15/2014 09:40 |
| 21403170203 | MW-21 AT 60 | Water | 03/12/2014 11:17 | 03/15/2014 09:40 |
| 21403170204 | MW-12 AT 60 | Water | 03/12/2014 13:42 | 03/15/2014 09:40 |
| 21403170205 | MW-24 AT 60 | Water | 03/12/2014 14:46 | 03/15/2014 09:40 |
| 21403170206 | MW-20 AT 60 | Water | 03/12/2014 15:48 | 03/15/2014 09:40 |
| 21403170207 | PT-3 AT 60 | Water | 03/12/2014 16:36 | 03/15/2014 09:40 |
| 21403170208 | MW-17 AT 25 | Water | 03/13/2014 09:05 | 03/15/2014 09:40 |
| 21403170209 | MW-19 AT 30 | Water | 03/13/2014 10:04 | 03/15/2014 09:40 |
| 21403170210 | MW-15 AT 30 | Water | 03/13/2014 10:48 | 03/15/2014 09:40 |
| 21403170211 | MW-7 AT 30 | Water | 03/13/2014 11:37 | 03/15/2014 09:40 |

# Summary of Compounds Detected

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170201 | **MW-23 AT 60** | Water | 03/12/2014 09:22 | 03/15/2014 09:40 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 79-01-6 | Trichloroethene | 402 | 25.0 | | ug/L |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 2180 | 500 | | ug/L |
| 127-18-4 | Tetrachloroethene | 1870 | 250 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 2180 | 250 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170202 | **MW-22 AT 60** | Water | 03/12/2014 10:23 | 03/15/2014 09:40 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 79-01-6 | Trichloroethene | 347 | 25.0 | | ug/L |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 2070 | 500 | | ug/L |
| 127-18-4 | Tetrachloroethene | 2210 | 250 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 2070 | 250 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170203 | **MW-21 AT 60** | Water | 03/12/2014 11:17 | 03/15/2014 09:40 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 58.2 | 50.0 | | ug/L |
| 79-01-6 | Trichloroethene | 82.2 | 25.0 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 58.2 | 25.0 | | ug/L |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 2410 | 250 | | ug/L |



Revision 1

# Summary of Compounds Detected (con't)

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170204 | **MW-12 AT 60** | Water | 03/12/2014 13:42 | 03/15/2014 09:40 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 59.2 | 20.0 | | ug/L |
| 79-01-6 | Trichloroethene | 12.3 | 10.0 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 59.2 | 10.0 | | ug/L |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1590 | 100 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170205 | **MW-24 AT 60** | Water | 03/12/2014 14:46 | 03/15/2014 09:40 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 79-01-6 | Trichloroethene | 195 | 10.0 | | ug/L |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 960 | 200 | | ug/L |
| 127-18-4 | Tetrachloroethene | 695 | 100 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 960 | 100 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170206 | **MW-20 AT 60** | Water | 03/12/2014 15:48 | 03/15/2014 09:40 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 79-01-6 | Trichloroethene | 288 | 25.0 | | ug/L |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 1890 | 500 | | ug/L |
| 127-18-4 | Tetrachloroethene | 2850 | 250 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 1890 | 250 | | ug/L |

# Summary of Compounds Detected (con't)

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170207 | **PT-3 AT 60** | Water | 03/12/2014 16:36 | 03/15/2014 09:40 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 496 | 100 | | ug/L |
| 75-09-2 | Methylene chloride | 110 | 100 | | ug/L |
| 79-01-6 | Trichloroethene | 1170 | 100 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 106 | 100 | | ug/L |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 9300 | 2000 | | ug/L |
| 127-18-4 | Tetrachloroethene | 17400 | 1000 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 9180 | 1000 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170208 | **MW-17 AT 25** | Water | 03/13/2014 09:05 | 03/15/2014 09:40 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 522 | 20.0 | | ug/L |
| 79-01-6 | Trichloroethene | 238 | 10.0 | | ug/L |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1210 | 100 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 447 | 100 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170209 | **MW-19 AT 30** | Water | 03/13/2014 10:04 | 03/15/2014 09:40 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 63.2 | 10.0 | | ug/L |
| 75-01-4 | Vinyl chloride | 14.5 | 5.00 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 63.2 | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170211 | **MW-7 AT 30** | Water | 03/13/2014 11:37 | 03/15/2014 09:40 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 5.35 | 5.00 | | ug/L |



Revision 1

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170201 | **MW-23 AT 60** | Water | 03/12/2014 09:22 | 03/15/2014 09:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 03/18/2014 15:24 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **540-59-0** | **1,2-Dichloroethene(Total)** | **2180** | **500** | | **ug/L** |
| **127-18-4** | **Tetrachloroethene** | **1870** | **250** | | **ug/L** |
| **156-59-2** | **cis-1,2-Dichloroethene** | **2180** | **250** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 2500 | 2690 | ug/L | 108 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 2500 | 2540 | ug/L | 102 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 2500 | 2700 | ug/L | 108 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 2500 | 2480 | ug/L | 99 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 5 | 03/18/2014 17:39 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 25.0 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 25.0 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 25.0 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 25.0 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 25.0 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 25.0 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 25.0 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 25.0 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 25.0 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 25.0 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 25.0 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 25.0 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 25.0 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 25.0 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 25.0 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 25.0 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 25.0 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 25.0 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 25.0 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 25.0 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 25.0 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 25.0 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 25.0 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 25.0 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 25.0 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 25.0 | | ug/L |
| 67-64-1 | Acetone | ND | 25.0 | | ug/L |
| 71-43-2 | Benzene | ND | 25.0 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 25.0 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 25.0 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 25.0 | | ug/L |
| 75-25-2 | Bromoform | ND | 25.0 | | ug/L |
| 74-83-9 | Bromomethane | ND | 25.0 | | ug/L |



Revision 1

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170201 | **MW-23 AT 60** | Water | 03/12/2014 09:22 | 03/15/2014 09:40 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 5 | 03/18/2014 17:39 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 75-15-0 | Carbon disulfide | ND | 25.0 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 25.0 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 25.0 | | ug/L |
| 75-00-3 | Chloroethane | ND | 25.0 | | ug/L |
| 67-66-3 | Chloroform | ND | 25.0 | | ug/L |
| 74-87-3 | Chloromethane | ND | 25.0 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 25.0 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 25.0 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 25.0 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 25.0 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 25.0 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 25.0 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 25.0 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 25.0 | | ug/L |
| 91-20-3 | Naphthalene | ND | 25.0 | | ug/L |
| 100-42-5 | Styrene | ND | 25.0 | | ug/L |
| 108-88-3 | Toluene | ND | 25.0 | | ug/L |
| **79-01-6** | **Trichloroethene** | **402** | **25.0** | | **ug/L** |
| 75-69-4 | Trichlorofluoromethane | ND | 25.0 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 25.0 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 25.0 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 75.0 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 25.0 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 50.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 25.0 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 25.0 | | ug/L |
| 95-47-6 | o-Xylene | ND | 25.0 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 25.0 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 25.0 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 25.0 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 25.0 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 25.0 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 25.0 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 250 | 268 | ug/L | 107 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 250 | 262 | ug/L | 105 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 250 | 269 | ug/L | 108 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 250 | 247 | ug/L | 99 | 71 - 127 |



Revision 1

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170202 | **MW-22 AT 60** | Water | 03/12/2014 10:23 | 03/15/2014 09:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 03/18/2014 15:47 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **540-59-0** | **1,2-Dichloroethene(Total)** | **2070** | **500** | | **ug/L** |
| **127-18-4** | **Tetrachloroethene** | **2210** | **250** | | **ug/L** |
| **156-59-2** | **cis-1,2-Dichloroethene** | **2070** | **250** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 2500 | 2670 | ug/L | 107 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 2500 | 2480 | ug/L | 99 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 2500 | 2650 | ug/L | 106 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 2500 | 2440 | ug/L | 98 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 5 | 03/18/2014 18:01 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 25.0 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 25.0 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 25.0 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 25.0 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 25.0 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 25.0 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 25.0 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 25.0 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 25.0 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 25.0 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 25.0 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 25.0 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 25.0 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 25.0 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 25.0 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 25.0 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 25.0 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 25.0 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 25.0 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 25.0 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 25.0 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 25.0 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 25.0 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 25.0 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 25.0 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 25.0 | | ug/L |
| 67-64-1 | Acetone | ND | 25.0 | | ug/L |
| 71-43-2 | Benzene | ND | 25.0 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 25.0 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 25.0 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 25.0 | | ug/L |
| 75-25-2 | Bromoform | ND | 25.0 | | ug/L |
| 74-83-9 | Bromomethane | ND | 25.0 | | ug/L |



Revision 1

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170202 | **MW-22 AT 60** | Water | 03/12/2014 10:23 | 03/15/2014 09:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 5 | 03/18/2014 18:01 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 75-15-0 | Carbon disulfide | ND | 25.0 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 25.0 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 25.0 | | ug/L |
| 75-00-3 | Chloroethane | ND | 25.0 | | ug/L |
| 67-66-3 | Chloroform | ND | 25.0 | | ug/L |
| 74-87-3 | Chloromethane | ND | 25.0 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 25.0 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 25.0 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 25.0 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 25.0 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 25.0 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 25.0 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 25.0 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 25.0 | | ug/L |
| 91-20-3 | Naphthalene | ND | 25.0 | | ug/L |
| 100-42-5 | Styrene | ND | 25.0 | | ug/L |
| 108-88-3 | Toluene | ND | 25.0 | | ug/L |
| **79-01-6** | **Trichloroethene** | **347** | **25.0** | | **ug/L** |
| 75-69-4 | Trichlorofluoromethane | ND | 25.0 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 25.0 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 25.0 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 75.0 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 25.0 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 50.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 25.0 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 25.0 | | ug/L |
| 95-47-6 | o-Xylene | ND | 25.0 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 25.0 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 25.0 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 25.0 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 25.0 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 25.0 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 25.0 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 250 | 274 | ug/L | 110 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 250 | 254 | ug/L | 102 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 250 | 266 | ug/L | 106 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 250 | 249 | ug/L | 100 | 71 - 127 |



Revision 1

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170203 | **MW-21 AT 60** | Water | 03/12/2014 11:17 | 03/15/2014 09:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 03/18/2014 13:10 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **2410** | **250** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 2500 | 2630 | ug/L | 105 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 2500 | 2500 | ug/L | 100 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 2500 | 2680 | ug/L | 107 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 2500 | 2470 | ug/L | 99 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 5 | 03/18/2014 13:55 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 25.0 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 25.0 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 25.0 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 25.0 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 25.0 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 25.0 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 25.0 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 25.0 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 25.0 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 25.0 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 25.0 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 25.0 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 25.0 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 25.0 | | ug/L |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **58.2** | **50.0** | | **ug/L** |
| 78-87-5 | 1,2-Dichloropropane | ND | 25.0 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 25.0 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 25.0 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 25.0 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 25.0 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 25.0 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 25.0 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 25.0 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 25.0 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 25.0 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 25.0 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 25.0 | | ug/L |
| 67-64-1 | Acetone | ND | 25.0 | | ug/L |
| 71-43-2 | Benzene | ND | 25.0 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 25.0 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 25.0 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 25.0 | | ug/L |
| 75-25-2 | Bromoform | ND | 25.0 | | ug/L |
| 74-83-9 | Bromomethane | ND | 25.0 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 25.0 | | ug/L |



Revision 1

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170203 | **MW-21 AT 60** | Water | 03/12/2014 11:17 | 03/15/2014 09:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 5 | 03/18/2014 13:55 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | ND | 25.0 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 25.0 | | ug/L |
| 75-00-3 | Chloroethane | ND | 25.0 | | ug/L |
| 67-66-3 | Chloroform | ND | 25.0 | | ug/L |
| 74-87-3 | Chloromethane | ND | 25.0 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 25.0 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 25.0 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 25.0 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 25.0 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 25.0 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 25.0 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 25.0 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 25.0 | | ug/L |
| 91-20-3 | Naphthalene | ND | 25.0 | | ug/L |
| 100-42-5 | Styrene | ND | 25.0 | | ug/L |
| 108-88-3 | Toluene | ND | 25.0 | | ug/L |
| **79-01-6** | **Trichloroethene** | **82.2** | **25.0** | | **ug/L** |
| 75-69-4 | Trichlorofluoromethane | ND | 25.0 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 25.0 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 25.0 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 75.0 | | ug/L |
| **156-59-2** | **cis-1,2-Dichloroethene** | **58.2** | **25.0** | | **ug/L** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 25.0 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 50.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 25.0 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 25.0 | | ug/L |
| 95-47-6 | o-Xylene | ND | 25.0 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 25.0 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 25.0 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 25.0 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 25.0 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 25.0 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 25.0 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 250 | 267 | ug/L | 107 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 250 | 250 | ug/L | 100 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 250 | 265 | ug/L | 106 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 250 | 249 | ug/L | 100 | 71 - 127 |



Revision 1

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170204 | **MW-12 AT 60** | Water | 03/12/2014 13:42 | 03/15/2014 09:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 20 | 03/18/2014 13:33 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **1590** | **100** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 1000 | 1050 | ug/L | 105 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 1000 | 989 | ug/L | 99 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 1000 | 1060 | ug/L | 106 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 1000 | 986 | ug/L | 99 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 2 | 03/18/2014 14:17 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 10.0 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 10.0 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 10.0 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 10.0 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 10.0 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 10.0 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 10.0 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 10.0 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 10.0 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 10.0 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10.0 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 10.0 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 10.0 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 10.0 | | ug/L |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **59.2** | **20.0** | | **ug/L** |
| 78-87-5 | 1,2-Dichloropropane | ND | 10.0 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 10.0 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 10.0 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 10.0 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 10.0 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 10.0 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 10.0 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 10.0 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 10.0 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 10.0 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 10.0 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 10.0 | | ug/L |
| 67-64-1 | Acetone | ND | 10.0 | | ug/L |
| 71-43-2 | Benzene | ND | 10.0 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 10.0 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 10.0 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 10.0 | | ug/L |
| 75-25-2 | Bromoform | ND | 10.0 | | ug/L |
| 74-83-9 | Bromomethane | ND | 10.0 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 10.0 | | ug/L |



Revision 1

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170204 | **MW-12 AT 60** | Water | 03/12/2014 13:42 | 03/15/2014 09:40 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 2 | 03/18/2014 14:17 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | ND | 10.0 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 10.0 | | ug/L |
| 75-00-3 | Chloroethane | ND | 10.0 | | ug/L |
| 67-66-3 | Chloroform | ND | 10.0 | | ug/L |
| 74-87-3 | Chloromethane | ND | 10.0 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 10.0 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 10.0 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 10.0 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 10.0 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 10.0 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 10.0 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 10.0 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 10.0 | | ug/L |
| 91-20-3 | Naphthalene | ND | 10.0 | | ug/L |
| 100-42-5 | Styrene | ND | 10.0 | | ug/L |
| 108-88-3 | Toluene | ND | 10.0 | | ug/L |
| **79-01-6** | **Trichloroethene** | **12.3** | **10.0** | | **ug/L** |
| 75-69-4 | Trichlorofluoromethane | ND | 10.0 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 10.0 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 10.0 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 30.0 | | ug/L |
| **156-59-2** | **cis-1,2-Dichloroethene** | **59.2** | **10.0** | | **ug/L** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 10.0 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 20.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 10.0 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 10.0 | | ug/L |
| 95-47-6 | o-Xylene | ND | 10.0 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 10.0 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 10.0 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 10.0 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 10.0 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 10.0 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 10.0 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 100 | 106 | ug/L | 106 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 100 | 101 | ug/L | 101 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 100 | 107 | ug/L | 107 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 100 | 101 | ug/L | 101 | 71 - 127 |



Revision 1

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170205 | **MW-24 AT 60** | Water | 03/12/2014 14:46 | 03/15/2014 09:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 20 | 03/18/2014 16:32 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **540-59-0** | **1,2-Dichloroethene(Total)** | **960** | **200** | | **ug/L** |
| **127-18-4** | **Tetrachloroethene** | **695** | **100** | | **ug/L** |
| **156-59-2** | **cis-1,2-Dichloroethene** | **960** | **100** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 1000 | 1080 | ug/L | 108 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 1000 | 1010 | ug/L | 101 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 1000 | 1080 | ug/L | 108 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 1000 | 1010 | ug/L | 101 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 2 | 03/18/2014 18:46 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 10.0 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 10.0 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 10.0 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 10.0 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 10.0 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 10.0 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 10.0 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 10.0 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 10.0 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 10.0 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10.0 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 10.0 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 10.0 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 10.0 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 10.0 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 10.0 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 10.0 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 10.0 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 10.0 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 10.0 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 10.0 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 10.0 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 10.0 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 10.0 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 10.0 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 10.0 | | ug/L |
| 67-64-1 | Acetone | ND | 10.0 | | ug/L |
| 71-43-2 | Benzene | ND | 10.0 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 10.0 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 10.0 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 10.0 | | ug/L |
| 75-25-2 | Bromoform | ND | 10.0 | | ug/L |
| 74-83-9 | Bromomethane | ND | 10.0 | | ug/L |



Revision 1

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170205 | **MW-24 AT 60** | Water | 03/12/2014 14:46 | 03/15/2014 09:40 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 2 | 03/18/2014 18:46 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 75-15-0 | Carbon disulfide | ND | 10.0 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 10.0 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 10.0 | | ug/L |
| 75-00-3 | Chloroethane | ND | 10.0 | | ug/L |
| 67-66-3 | Chloroform | ND | 10.0 | | ug/L |
| 74-87-3 | Chloromethane | ND | 10.0 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 10.0 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 10.0 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 10.0 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 10.0 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 10.0 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 10.0 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 10.0 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 10.0 | | ug/L |
| 91-20-3 | Naphthalene | ND | 10.0 | | ug/L |
| 100-42-5 | Styrene | ND | 10.0 | | ug/L |
| 108-88-3 | Toluene | ND | 10.0 | | ug/L |
| **79-01-6** | **Trichloroethene** | **195** | **10.0** | | **ug/L** |
| 75-69-4 | Trichlorofluoromethane | ND | 10.0 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 10.0 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 10.0 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 30.0 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 10.0 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 20.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 10.0 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 10.0 | | ug/L |
| 95-47-6 | o-Xylene | ND | 10.0 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 10.0 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 10.0 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 10.0 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 10.0 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 10.0 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 10.0 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 100 | 105 | ug/L | 105 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 100 | 103 | ug/L | 103 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 100 | 105 | ug/L | 105 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 100 | 98.9 | ug/L | 99 | 71 - 127 |



Revision 1

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170206 | **MW-20 AT 60** | Water | 03/12/2014 15:48 | 03/15/2014 09:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 03/18/2014 16:10 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **540-59-0** | **1,2-Dichloroethene(Total)** | **1890** | **500** | | **ug/L** |
| **127-18-4** | **Tetrachloroethene** | **2850** | **250** | | **ug/L** |
| **156-59-2** | **cis-1,2-Dichloroethene** | **1890** | **250** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 2500 | 2690 | ug/L | 108 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 2500 | 2560 | ug/L | 102 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 2500 | 2720 | ug/L | 109 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 2500 | 2480 | ug/L | 99 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 5 | 03/18/2014 18:24 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 25.0 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 25.0 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 25.0 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 25.0 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 25.0 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 25.0 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 25.0 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 25.0 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 25.0 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 25.0 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 25.0 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 25.0 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 25.0 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 25.0 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 25.0 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 25.0 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 25.0 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 25.0 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 25.0 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 25.0 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 25.0 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 25.0 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 25.0 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 25.0 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 25.0 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 25.0 | | ug/L |
| 67-64-1 | Acetone | ND | 25.0 | | ug/L |
| 71-43-2 | Benzene | ND | 25.0 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 25.0 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 25.0 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 25.0 | | ug/L |
| 75-25-2 | Bromoform | ND | 25.0 | | ug/L |
| 74-83-9 | Bromomethane | ND | 25.0 | | ug/L |



Revision 1

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170206 | **MW-20 AT 60** | Water | 03/12/2014 15:48 | 03/15/2014 09:40 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 5 | 03/18/2014 18:24 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 75-15-0 | Carbon disulfide | ND | 25.0 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 25.0 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 25.0 | | ug/L |
| 75-00-3 | Chloroethane | ND | 25.0 | | ug/L |
| 67-66-3 | Chloroform | ND | 25.0 | | ug/L |
| 74-87-3 | Chloromethane | ND | 25.0 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 25.0 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 25.0 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 25.0 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 25.0 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 25.0 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 25.0 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 25.0 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 25.0 | | ug/L |
| 91-20-3 | Naphthalene | ND | 25.0 | | ug/L |
| 100-42-5 | Styrene | ND | 25.0 | | ug/L |
| 108-88-3 | Toluene | ND | 25.0 | | ug/L |
| **79-01-6** | **Trichloroethene** | **288** | **25.0** | | **ug/L** |
| 75-69-4 | Trichlorofluoromethane | ND | 25.0 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 25.0 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 25.0 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 75.0 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 25.0 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 50.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 25.0 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 25.0 | | ug/L |
| 95-47-6 | o-Xylene | ND | 25.0 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 25.0 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 25.0 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 25.0 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 25.0 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 25.0 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 25.0 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 250 | 267 | ug/L | 107 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 250 | 258 | ug/L | 103 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 250 | 262 | ug/L | 105 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 250 | 248 | ug/L | 99 | 71 - 127 |



Revision 1

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170207 | **PT-3 AT 60** | Water | 03/12/2014 16:36 | 03/15/2014 09:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 200 | 03/18/2014 15:02 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **540-59-0** | **1,2-Dichloroethene(Total)** | **9300** | **2000** | | **ug/L** |
| **127-18-4** | **Tetrachloroethene** | **17400** | **1000** | | **ug/L** |
| **156-59-2** | **cis-1,2-Dichloroethene** | **9180** | **1000** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 10000 | 10700 | ug/L | 107 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 10000 | 10200 | ug/L | 102 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 10000 | 10700 | ug/L | 107 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 10000 | 9950 | ug/L | 100 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 20 | 03/18/2014 17:17 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 100 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 100 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 100 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 100 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 100 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 100 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 100 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 100 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 100 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 100 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 100 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 100 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 100 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 100 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 100 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 100 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 100 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 100 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 100 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 100 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 100 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 100 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 100 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 100 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 100 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 100 | | ug/L |
| **67-64-1** | **Acetone** | **496** | **100** | | **ug/L** |
| 71-43-2 | Benzene | ND | 100 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 100 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 100 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 100 | | ug/L |
| 75-25-2 | Bromoform | ND | 100 | | ug/L |
| 74-83-9 | Bromomethane | ND | 100 | | ug/L |



Revision 1

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170207 | **PT-3 AT 60** | Water | 03/12/2014 16:36 | 03/15/2014 09:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 20 | 03/18/2014 17:17 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 75-15-0 | Carbon disulfide | ND | 100 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 100 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 100 | | ug/L |
| 75-00-3 | Chloroethane | ND | 100 | | ug/L |
| 67-66-3 | Chloroform | ND | 100 | | ug/L |
| 74-87-3 | Chloromethane | ND | 100 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 100 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 100 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 100 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 100 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 100 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 100 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 100 | | ug/L |
| **75-09-2** | **Methylene chloride** | **110** | **100** | | **ug/L** |
| 91-20-3 | Naphthalene | ND | 100 | | ug/L |
| 100-42-5 | Styrene | ND | 100 | | ug/L |
| 108-88-3 | Toluene | ND | 100 | | ug/L |
| **79-01-6** | **Trichloroethene** | **1170** | **100** | | **ug/L** |
| 75-69-4 | Trichlorofluoromethane | ND | 100 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 100 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 100 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 300 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 100 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 200 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 100 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 100 | | ug/L |
| 95-47-6 | o-Xylene | ND | 100 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 100 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 100 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 100 | | ug/L |
| **156-60-5** | **trans-1,2-Dichloroethene** | **106** | **100** | | **ug/L** |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 100 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 100 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 1000 | 1050 | ug/L | 105 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 1000 | 1000 | ug/L | 100 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 1000 | 1070 | ug/L | 107 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 1000 | 1000 | ug/L | 100 | 71 - 127 |



Revision 1

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170208 | **MW-17 AT 25** | Water | 03/13/2014 09:05 | 03/15/2014 09:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 20 | 03/18/2014 16:55 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **1210** | **100** | | **ug/L** |
| **156-59-2** | **cis-1,2-Dichloroethene** | **447** | **100** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 1000 | 1070 | ug/L | 107 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 1000 | 1010 | ug/L | 101 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 1000 | 1070 | ug/L | 107 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 1000 | 1010 | ug/L | 101 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 2 | 03/18/2014 19:08 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 10.0 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 10.0 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 10.0 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 10.0 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 10.0 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 10.0 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 10.0 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 10.0 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 10.0 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 10.0 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10.0 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 10.0 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 10.0 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 10.0 | | ug/L |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **522** | **20.0** | | **ug/L** |
| 78-87-5 | 1,2-Dichloropropane | ND | 10.0 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 10.0 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 10.0 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 10.0 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 10.0 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 10.0 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 10.0 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 10.0 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 10.0 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 10.0 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 10.0 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 10.0 | | ug/L |
| 67-64-1 | Acetone | ND | 10.0 | | ug/L |
| 71-43-2 | Benzene | ND | 10.0 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 10.0 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 10.0 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 10.0 | | ug/L |
| 75-25-2 | Bromoform | ND | 10.0 | | ug/L |
| 74-83-9 | Bromomethane | ND | 10.0 | | ug/L |



Revision 1

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170208 | **MW-17 AT 25** | Water | 03/13/2014 09:05 | 03/15/2014 09:40 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 2 | 03/18/2014 19:08 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 75-15-0 | Carbon disulfide | ND | 10.0 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 10.0 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 10.0 | | ug/L |
| 75-00-3 | Chloroethane | ND | 10.0 | | ug/L |
| 67-66-3 | Chloroform | ND | 10.0 | | ug/L |
| 74-87-3 | Chloromethane | ND | 10.0 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 10.0 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 10.0 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 10.0 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 10.0 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 10.0 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 10.0 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 10.0 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 10.0 | | ug/L |
| 91-20-3 | Naphthalene | ND | 10.0 | | ug/L |
| 100-42-5 | Styrene | ND | 10.0 | | ug/L |
| 108-88-3 | Toluene | ND | 10.0 | | ug/L |
| **79-01-6** | **Trichloroethene** | **238** | **10.0** | | **ug/L** |
| 75-69-4 | Trichlorofluoromethane | ND | 10.0 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 10.0 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 10.0 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 30.0 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 10.0 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 20.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 10.0 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 10.0 | | ug/L |
| 95-47-6 | o-Xylene | ND | 10.0 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 10.0 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 10.0 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 10.0 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 10.0 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 10.0 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 10.0 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 100 | 108 | ug/L | 108 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 100 | 102 | ug/L | 102 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 100 | 106 | ug/L | 106 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 100 | 98.6 | ug/L | 99 | 71 - 127 |



Revision 1

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170209 | **MW-19 AT 30** | Water | 03/13/2014 10:04 | 03/15/2014 09:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 03/18/2014 12:04 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.00 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.00 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.00 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.00 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.00 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.00 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.00 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.00 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.00 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.00 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.00 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.00 | | ug/L |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **63.2** | **10.0** | | **ug/L** |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.00 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.00 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.00 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.00 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.00 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.00 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 5.00 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 5.00 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 5.00 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 5.00 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 5.00 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | | ug/L |
| 67-64-1 | Acetone | ND | 5.00 | | ug/L |
| 71-43-2 | Benzene | ND | 5.00 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 5.00 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 5.00 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 5.00 | | ug/L |
| 75-25-2 | Bromoform | ND | 5.00 | | ug/L |
| 74-83-9 | Bromomethane | ND | 5.00 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 5.00 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 5.00 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 5.00 | | ug/L |
| 75-00-3 | Chloroethane | ND | 5.00 | | ug/L |
| 67-66-3 | Chloroform | ND | 5.00 | | ug/L |
| 74-87-3 | Chloromethane | ND | 5.00 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 5.00 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 5.00 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.00 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 5.00 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 5.00 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 5.00 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 5.00 | | ug/L |
| 91-20-3 | Naphthalene | ND | 5.00 | | ug/L |
| 100-42-5 | Styrene | ND | 5.00 | | ug/L |



Revision 1

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170209 | **MW-19 AT 30** | Water | 03/13/2014 10:04 | 03/15/2014 09:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 03/18/2014 12:04 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | ND | 5.00 | | ug/L |
| 108-88-3 | Toluene | ND | 5.00 | | ug/L |
| 79-01-6 | Trichloroethene | ND | 5.00 | | ug/L |
| 75-69-4 | Trichlorofluoromethane | ND | 5.00 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.00 | | ug/L |
| **75-01-4** | **Vinyl chloride** | **14.5** | **5.00** | | **ug/L** |
| 1330-20-7 | Xylene (total) | ND | 15.0 | | ug/L |
| **156-59-2** | **cis-1,2-Dichloroethene** | **63.2** | **5.00** | | **ug/L** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 10.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 5.00 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | | ug/L |
| 95-47-6 | o-Xylene | ND | 5.00 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 5.00 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 5.00 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 5.00 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.00 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 50 | 51.2 | ug/L | 102 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 50 | 50 | ug/L | 100 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 50 | 53.2 | ug/L | 106 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50 | 49.4 | ug/L | 99 | 71 - 127 |



Revision 1

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170210 | **MW-15 AT 30** | Water | 03/13/2014 10:48 | 03/15/2014 09:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 03/18/2014 12:26 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.00 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.00 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.00 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.00 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.00 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.00 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.00 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.00 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.00 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.00 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.00 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.00 | | ug/L |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 10.0 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.00 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.00 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.00 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.00 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.00 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.00 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 5.00 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 5.00 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 5.00 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 5.00 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 5.00 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | | ug/L |
| 67-64-1 | Acetone | ND | 5.00 | | ug/L |
| 71-43-2 | Benzene | ND | 5.00 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 5.00 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 5.00 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 5.00 | | ug/L |
| 75-25-2 | Bromoform | ND | 5.00 | | ug/L |
| 74-83-9 | Bromomethane | ND | 5.00 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 5.00 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 5.00 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 5.00 | | ug/L |
| 75-00-3 | Chloroethane | ND | 5.00 | | ug/L |
| 67-66-3 | Chloroform | ND | 5.00 | | ug/L |
| 74-87-3 | Chloromethane | ND | 5.00 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 5.00 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 5.00 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.00 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 5.00 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 5.00 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 5.00 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 5.00 | | ug/L |
| 91-20-3 | Naphthalene | ND | 5.00 | | ug/L |
| 100-42-5 | Styrene | ND | 5.00 | | ug/L |



Revision 1

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170210 | **MW-15 AT 30** | Water | 03/13/2014 10:48 | 03/15/2014 09:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 03/18/2014 12:26 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | ND | 5.00 | | ug/L |
| 108-88-3 | Toluene | ND | 5.00 | | ug/L |
| 79-01-6 | Trichloroethene | ND | 5.00 | | ug/L |
| 75-69-4 | Trichlorofluoromethane | ND | 5.00 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.00 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 5.00 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 15.0 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 10.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 5.00 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | | ug/L |
| 95-47-6 | o-Xylene | ND | 5.00 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 5.00 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 5.00 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 5.00 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.00 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 50 | 52.1 | ug/L | 104 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 50 | 48.4 | ug/L | 97 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 50 | 53.6 | ug/L | 107 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50 | 49.2 | ug/L | 98 | 71 - 127 |



Revision 1

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170211 | **MW-7 AT 30** | Water | 03/13/2014 11:37 | 03/15/2014 09:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 03/18/2014 12:48 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.00 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.00 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.00 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.00 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.00 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.00 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.00 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.00 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.00 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.00 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.00 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.00 | | ug/L |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 10.0 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.00 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.00 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.00 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.00 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.00 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.00 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 5.00 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 5.00 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 5.00 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 5.00 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 5.00 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | | ug/L |
| 67-64-1 | Acetone | ND | 5.00 | | ug/L |
| 71-43-2 | Benzene | ND | 5.00 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 5.00 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 5.00 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 5.00 | | ug/L |
| 75-25-2 | Bromoform | ND | 5.00 | | ug/L |
| 74-83-9 | Bromomethane | ND | 5.00 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 5.00 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 5.00 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 5.00 | | ug/L |
| 75-00-3 | Chloroethane | ND | 5.00 | | ug/L |
| 67-66-3 | Chloroform | ND | 5.00 | | ug/L |
| 74-87-3 | Chloromethane | ND | 5.00 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 5.00 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 5.00 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.00 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 5.00 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 5.00 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 5.00 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 5.00 | | ug/L |
| 91-20-3 | Naphthalene | ND | 5.00 | | ug/L |
| 100-42-5 | Styrene | ND | 5.00 | | ug/L |



Revision 1

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21403170211 | **MW-7 AT 30** | Water | 03/13/2014 11:37 | 03/15/2014 09:40 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 03/18/2014 12:48 | CLH | 527804 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **5.35** | **5.00** | | **ug/L** |
| 108-88-3 | Toluene | ND | 5.00 | | ug/L |
| 79-01-6 | Trichloroethene | ND | 5.00 | | ug/L |
| 75-69-4 | Trichlorofluoromethane | ND | 5.00 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.00 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 5.00 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 15.0 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 10.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 5.00 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | | ug/L |
| 95-47-6 | o-Xylene | ND | 5.00 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 5.00 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 5.00 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 5.00 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.00 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 50 | 52.5 | ug/L | 105 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 50 | 50.6 | ug/L | 101 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 50 | 53.1 | ug/L | 106 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50 | 49.3 | ug/L | 99 | 71 - 127 |



Revision 1

# GC/MS Volatiles Quality Control Summary

| | | | | |
|---|---|---|---|---|
| **Analytical Batch** 527804 | **Client ID** | MB527804 | LCS527804 | LCSD527804 |
| **Prep Batch** N/A | **GCAL ID** | 1293694 | 1293695 | 1293696 |
| | **Sample Type** | Method Blank | LCS | LCSD |
| | **Analytical Date** | 03/18/2014 11:42 | 03/18/2014 10:12 | 03/18/2014 10:34 |
| | **Matrix** | Water | Water | Water |

| **EPA 8260B** | | **Units** | ug/L | **Spike** | **Result** | | **Control** | **Result** | | | **RPD** |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Result** | **RDL** | **Added** | | **% R** | **Limits % R** | | **% R** | **RPD** | **Limit** |
| 67-64-1 | Acetone | ND | 5.00 | 50.0 | 42.1 | 84 | 44 - 156 | 43.3 | 87 | 3 | 30 |
| 74-97-5 | Bromochloromethane | ND | 5.00 | 50.0 | 47.1 | 94 | 76 - 130 | 47.5 | 95 | 1 | 30 |
| 75-27-4 | Bromodichloromethane | ND | 5.00 | 50.0 | 47.0 | 94 | 74 - 125 | 46.7 | 93 | 1 | 30 |
| 75-25-2 | Bromoform | ND | 5.00 | 50.0 | 48.6 | 97 | 64 - 122 | 50.0 | 100 | 3 | 30 |
| 74-83-9 | Bromomethane | ND | 5.00 | 50.0 | 31.9 | 64 | 47 - 138 | 27.8 | 56 | 14 | 30 |
| 75-15-0 | Carbon disulfide | ND | 5.00 | 50.0 | 42.9 | 86 | 69 - 136 | 41.7 | 83 | 3 | 30 |
| 56-23-5 | Carbon tetrachloride | ND | 5.00 | 50.0 | 49.4 | 99 | 76 - 128 | 47.2 | 94 | 5 | 30 |
| 75-00-3 | Chloroethane | ND | 5.00 | 50.0 | 41.3 | 83 | 62 - 141 | 38.2 | 76 | 8 | 30 |
| 136777-61-2 | m,p-Xylene | ND | 10.0 | 100 | 102 | 102 | 74 - 126 | 100 | 100 | 2 | 30 |
| 67-66-3 | Chloroform | ND | 5.00 | 50.0 | 46.5 | 93 | 75 - 122 | 44.9 | 90 | 4 | 30 |
| 74-87-3 | Chloromethane | ND | 5.00 | 50.0 | 36.9 | 74 | 59 - 132 | 37.0 | 74 | 0 | 30 |
| 124-48-1 | Dibromochloromethane | ND | 5.00 | 50.0 | 50.5 | 101 | 71 - 123 | 51.0 | 102 | 1 | 30 |
| 74-95-3 | Dibromomethane | ND | 5.00 | 50.0 | 47.3 | 95 | 72 - 129 | 46.9 | 94 | 1 | 30 |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.00 | 50.0 | 44.5 | 89 | 58 - 140 | 43.3 | 87 | 3 | 30 |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.00 | 50.0 | 46.2 | 92 | 74 - 127 | 45.2 | 90 | 2 | 30 |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.00 | 50.0 | 46.4 | 93 | 71 - 129 | 45.8 | 92 | 1 | 30 |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.00 | 50.0 | 47.4 | 95 | 73 - 130 | 46.0 | 92 | 3 | 30 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | 50.0 | 44.8 | 90 | 69 - 132 | 42.8 | 86 | 5 | 30 |
| 75-09-2 | Methylene chloride | ND | 5.00 | 50.0 | 43.4 | 87 | 68 - 132 | 42.6 | 85 | 2 | 30 |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.00 | 50.0 | 46.8 | 94 | 72 - 128 | 46.0 | 92 | 2 | 30 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | 50.0 | 45.2 | 90 | 71 - 132 | 43.8 | 88 | 3 | 30 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | 50.0 | 43.0 | 86 | 71 - 131 | 43.2 | 86 | 1 | 30 |
| 100-41-4 | Ethylbenzene | ND | 5.00 | 50.0 | 49.0 | 98 | 74 - 126 | 48.4 | 97 | 1 | 30 |
| 591-78-6 | 2-Hexanone | ND | 5.00 | 50.0 | 46.7 | 93 | 50 - 135 | 49.7 | 99 | 6 | 30 |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | 50.0 | 47.6 | 95 | 71 - 125 | 46.5 | 93 | 2 | 30 |
| 78-93-3 | 2-Butanone | ND | 5.00 | 50.0 | 42.0 | 84 | 58 - 137 | 42.7 | 85 | 2 | 30 |
| 74-88-4 | Methyl iodide | ND | 5.00 | 50.0 | 36.9 | 74 | 57 - 141 | 35.8 | 72 | 3 | 30 |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | 50.0 | 46.0 | 92 | 57 - 132 | 47.8 | 96 | 4 | 30 |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | 50.0 | 47.4 | 95 | 75 - 129 | 46.3 | 93 | 2 | 30 |
| 100-42-5 | Styrene | ND | 5.00 | 50.0 | 47.1 | 94 | 71 - 127 | 46.5 | 93 | 1 | 30 |
| 127-18-4 | Tetrachloroethene | ND | 5.00 | 50.0 | 50.3 | 101 | 68 - 128 | 49.3 | 99 | 2 | 30 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | 50.0 | 51.9 | 104 | 75 - 124 | 51.0 | 102 | 2 | 30 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | 50.0 | 46.7 | 93 | 70 - 122 | 47.4 | 95 | 1 | 30 |



Revision 1

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 527804 | **Client ID** | MB527804 | | | LCS527804 | | | LCSD527804 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1293694 | | | 1293695 | | | 1293696 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 03/18/2014 11:42 | | | 03/18/2014 10:12 | | | 03/18/2014 10:34 | | |
| | | **Matrix** | Water | | | Water | | | Water | | |
| **EPA 8260B** | | **Units** | **Result** | ug/L **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 120-82-1 | 1,2,4-Trichlorobenzene | | ND | 5.00 | 50.0 | 47.5 | 95 | 61 - 135 | 46.9 | 94 | 1 | 30 |
| 71-55-6 | 1,1,1-Trichloroethane | | ND | 5.00 | 50.0 | 48.0 | 96 | 76 - 126 | 45.7 | 91 | 5 | 30 |
| 79-00-5 | 1,1,2-Trichloroethane | | ND | 5.00 | 50.0 | 50.9 | 102 | 72 - 121 | 50.6 | 101 | 1 | 30 |
| 75-69-4 | Trichlorofluoromethane | | ND | 5.00 | 50.0 | 42.2 | 84 | 72 - 136 | 41.7 | 83 | 1 | 30 |
| 96-18-4 | 1,2,3-Trichloropropane | | ND | 5.00 | 50.0 | 45.0 | 90 | 70 - 120 | 46.8 | 94 | 4 | 30 |
| 95-63-6 | 1,2,4-Trimethylbenzene | | ND | 5.00 | 50.0 | 49.4 | 99 | 74 - 125 | 48.0 | 96 | 3 | 30 |
| 108-67-8 | 1,3,5-Trimethylbenzene | | ND | 5.00 | 50.0 | 48.7 | 97 | 71 - 132 | 47.7 | 95 | 2 | 30 |
| 75-01-4 | Vinyl chloride | | ND | 5.00 | 50.0 | 41.1 | 82 | 68 - 132 | 40.4 | 81 | 2 | 30 |
| 95-47-6 | o-Xylene | | ND | 5.00 | 50.0 | 52.4 | 105 | 73 - 130 | 52.1 | 104 | 1 | 30 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | ND | 5.00 | 50.0 | 47.6 | 95 | 57 - 121 | 50.3 | 101 | 6 | 30 |
| 106-93-4 | 1,2-Dibromoethane | | ND | 5.00 | 50.0 | 50.5 | 101 | 70 - 124 | 51.7 | 103 | 2 | 30 |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | | ND | 5.00 | 50.0 | 49.1 | 98 | 71 - 125 | 50.3 | 101 | 2 | 30 |
| 540-59-0 | 1,2-Dichloroethene(Total) | | ND | 10.0 | 100 | 92.2 | 92 | 74 - 128 | 88.8 | 89 | 4 | 30 |
| 99-87-6 | 4-Isopropyltoluene | | ND | 5.00 | 50.0 | 51.0 | 102 | 71 - 129 | 49.4 | 99 | 3 | 30 |
| 1330-20-7 | Xylene (total) | | ND | 15.0 | 150 | 154 | 103 | 74 - 127 | 152 | 101 | 1 | 30 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | | ND | 5.00 | 50.0 | 46.7 | 93 | 56 - 132 | 47.4 | 95 | 1 | 30 |
| 594-20-7 | 2,2-Dichloropropane | | ND | 5.00 | 50.0 | 50.5 | 101 | 77 - 124 | 46.5 | 93 | 8 | 30 |
| 76-13-1 | Trichlorotrifluoroethane | | ND | 5.00 | 50.0 | 48.5 | 97 | 72 - 136 | 45.8 | 92 | 6 | 30 |
| 563-58-6 | 1,1-Dichloropropene | | ND | 5.00 | 50.0 | 44.2 | 88 | 72 - 131 | 42.6 | 85 | 4 | 30 |
| 142-28-9 | 1,3-Dichloropropane | | ND | 5.00 | 50.0 | 50.1 | 100 | 74 - 122 | 49.9 | 100 | 0 | 30 |
| 108-86-1 | Bromobenzene | | ND | 5.00 | 50.0 | 45.7 | 91 | 71 - 120 | 45.6 | 91 | 0 | 30 |
| 95-49-8 | 2-Chlorotoluene | | ND | 5.00 | 50.0 | 47.3 | 95 | 72 - 127 | 46.5 | 93 | 2 | 30 |
| 106-43-4 | 4-Chlorotoluene | | ND | 5.00 | 50.0 | 47.8 | 96 | 75 - 126 | 47.2 | 94 | 1 | 30 |
| 98-06-6 | tert-Butylbenzene | | ND | 5.00 | 50.0 | 48.8 | 98 | 72 - 126 | 47.6 | 95 | 2 | 30 |
| 135-98-8 | sec-Butylbenzene | | ND | 5.00 | 50.0 | 49.7 | 99 | 70 - 136 | 48.0 | 96 | 3 | 30 |
| 541-73-1 | 1,3-Dichlorobenzene | | ND | 5.00 | 50.0 | 47.7 | 95 | 74 - 126 | 47.5 | 95 | 0 | 30 |
| 106-46-7 | 1,4-Dichlorobenzene | | ND | 5.00 | 50.0 | 46.6 | 93 | 72 - 122 | 45.3 | 91 | 3 | 30 |
| 104-51-8 | n-Butylbenzene | | ND | 5.00 | 50.0 | 50.0 | 100 | 69 - 134 | 48.5 | 97 | 3 | 30 |
| 95-50-1 | 1,2-Dichlorobenzene | | ND | 5.00 | 50.0 | 49.5 | 99 | 71 - 126 | 49.1 | 98 | 1 | 30 |
| 87-68-3 | Hexachlorobutadiene | | ND | 5.00 | 50.0 | 48.5 | 97 | 61 - 144 | 47.1 | 94 | 3 | 30 |
| 91-20-3 | Naphthalene | | ND | 5.00 | 50.0 | 45.6 | 91 | 57 - 138 | 47.4 | 95 | 4 | 35 |
| 75-35-4 | 1,1-Dichloroethene | | ND | 5.00 | 50.0 | 48.8 | 98 | 69 - 129 | 47.1 | 94 | 4 | 20 |
| 71-43-2 | Benzene | | ND | 5.00 | 50.0 | 47.5 | 95 | 70 - 129 | 45.7 | 91 | 4 | 20 |



Revision 1

# GC/MS Volatiles Quality Control Summary

| | | | | | |
|---|---|---|---|---|---|
| **Analytical Batch** 527804 | **Client ID** | MB527804 | LCS527804 | LCSD527804 | |
| **Prep Batch** N/A | **GCAL ID** | 1293694 | 1293695 | 1293696 | |
| | **Sample Type** | Method Blank | LCS | LCSD | |
| | **Analytical Date** | 03/18/2014 11:42 | 03/18/2014 10:12 | 03/18/2014 10:34 | |
| | **Matrix** | Water | Water | Water | |

| **EPA 8260B** | | **Units** | ug/L | **Spike** | **Result** | | **Control** | **Result** | | | **RPD** |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Result** | **RDL** | **Added** | | **% R** | **Limits % R** | | **% R** | **RPD** | **Limit** |
| 79-01-6 | Trichloroethene | ND | 5.00 | 50.0 | 44.5 | 89 | 76 - 129 | 43.3 | 87 | 3 | 20 |
| 108-88-3 | Toluene | ND | 5.00 | 50.0 | 48.0 | 96 | 72 - 120 | 47.4 | 95 | 1 | 20 |
| 108-90-7 | Chlorobenzene | ND | 5.00 | 50.0 | 48.3 | 97 | 74 - 123 | 47.9 | 96 | 1 | 20 |
| **Surrogate** | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 51.9 | 104 | 50 | 53.5 | 107 | 78 - 130 | 53.8 | 108 | | |
| 1868-53-7 | Dibromofluoromethane | 49.7 | 99 | 50 | 50.1 | 100 | 77 - 127 | 49.7 | 99 | | |
| 2037-26-5 | Toluene d8 | 53 | 106 | 50 | 50.5 | 101 | 76 - 134 | 50.8 | 102 | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 49.4 | 99 | 50 | 49 | 98 | 71 - 127 | 48.5 | 97 | | |



Revision 1

GCAL ANALYTICAL LABORATORIES, LLC

7979 Innovation Park Dr., Baton Rouge, LA 70820-7402
Phone: 225.769.4900 • Fax: 225.767.5717 • www.gcal.com

# CHAIN OF CUSTODY RECORD

**Client ID:** 4642 - Sage Environmental
**SDG:** 214031702
**Due Date:** 03/19/14

**Report to:**
Client: SAGE Environmental
Address: 600 Chastain Rd Suite 320 Kennesaw, GA 30144
Contact: Jack Wintle
Phone: 678-431-0130
E-mail: Jack.wintle@sageenvironmental.com

**Bill to:**
Client: SAME
Address:
Contact:
Phone:
E-mail:

GCAL use only:
Custody Seal used ☑ yes ☐ no
intact ☑ yes ☐ no
Temperature °C 0.3, 1.8, E24

P.O. Number: 1221-1-4
Project Name/Number: Rayloc
Sampled By: Matthew R. Howe

☐ Dissolved Analysis Requested
☐ Field filtered
☐ Lab filtered

Analytical Requests & Method: VOC'S

| Matrix[1] | Date | Time (2400) | Comp | Grab | Sample Description | No Containers | HCL | Preservative |
|---|---|---|---|---|---|---|---|---|
| W | 3/12/14 | 0922 | | X | MW-23 @ 60' | 3 | HCL | 1 |
| | | 1023 | | | MW-22 @ 60' | | | 2 |
| | | 1117 | | | MW-21 @ 60' | | | 3 |
| | | 1342 | | | MW-12 @ 60' | | | 4 |
| | | 1446 | | | MW-24 @ 60' | | | 5 |
| | | 1548 | | | MW-20 @ 60' | | | 6 |
| | | 1636 | | | PT-3 @ 60' | | | 7 |
| W | 3/13/14 | 0905 | | X | MW-17 @ 25' | 3 | HCL | 8 |
| | | 1004 | | | MW-19 @ 30' | | | 9 |
| | | 1048 | | | MW-15 @ 30' | | | 10 |
| | | 1137 | | | MW-7 @ 30' | | | 11 |

Air Bill No: 7982-2752-6265

Turn Around Time (Business Days): ☐ 24h* ☐ 48h* ☐ 3 days* ☐ 1 week* ☒ Standard (Per Contract/Quote)

| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Date: | Time: |
|---|---|---|---|---|---|
| [signature] | 3/14/14 | | [signature] | 3/14/14 | 1112 |
| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Date: | Time: |
| | | | | | |
| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Date: | Time: |
| FedEx | 3/15/14 | 0845 | [signature] | 3/15/14 | ~~0840~~ 0940 |

Note:

By submitting these samples, you agree to GCAL's terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = solid, L = liquid, T = tissue

*Requires prior approval, rush charges may apply.

We cannot accept verbal changes. Please email written changes to your PM.

WHITE: CLIENT FINAL REPORT - CANARY: CLIENT

Revision 1

GCAL ANALYTICAL LABORATORIES, LLC

# SAMPLE RECEIVING CHECKLIST

*214031702*

| SAMPLE DELIVERY GROUP 214031702 | |
|---|---|
| **Client**<br>4642 - Sage Environmental | **Transport Method**<br>FEDEX |
| **Profile Number**<br>240745 | **Received By**<br>Saucier, Charlotte M. |
| **Line Item(s)**<br>1 - VOC | **Receive Date(s)**<br>03/15/14 |

| CHECKLIST | YES | NO | NA |
|---|---|---|---|
| Were all samples received using proper thermal preservation? | ☑ | ☐ | ☐ |
| When used, were all custody seals intact? | ☑ | ☐ | ☐ |
| Were all samples received in proper containers? | ☑ | ☐ | ☐ |
| Were all samples received using proper chemical preservation? | ☑ | ☐ | ☐ |
| Was preservative added to any container at the lab? | ☐ | ☑ | ☐ |
| Were all containers received in good condition? | ☑ | ☐ | ☐ |
| Were all VOA vials received with no head space? | ☑ | ☐ | ☐ |
| Do all sample labels match the Chain of Custody? | ☑ | ☐ | ☐ |
| Did the Chain of Custody list the sampling technician? | ☑ | ☐ | ☐ |
| Was the COC maintained i.e. all signatures, dates and time of receipt included? | ☑ | ☐ | ☐ |

## COOLERS

| Airbill | Thermometer ID: E24 | Temp(°C) |
|---|---|---|
| 7982 2752 6265 | | 0.3 |
| | | 1.8 |

## DISCREPANCIES

None

## LAB PRESERVATIONS

None

**NOTES**

*NELAP CERTIFICATE NUMBER 01955*
*DOD ELAP CERTIFICATE NUMBER L13-190*

# ANALYTICAL RESULTS

**PERFORMED BY**


**GCAL, LLC**

**7979 Innovation Park Dr.**

**Baton Rouge, LA 70820**


**Report Date** 06/17/2014

**GCAL Report** 214061259

| | |
|---|---|
| ***Deliver To*** | Sage Environmental Services<br>600 Chastain Rd.<br>Kennesaw, GA 30144<br>678-431-0130 |
| ***Attn*** | Jack Wintle |

***Project*** Rayloc GW

# Case Narrative

**Client:** Sage Environmental **Report:** 214061259

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

**VOLATILES MASS SPECTROMETRY**

In the EPA 8260B analysis, samples 21406125901 (MW-23 AT 60), 21406125902 (MW-22 AT 60), 21406125905 (MW-24 AT 30), 21406125910 (PT-3 AT 60), 21406125903 (MW-21 AT 60), 21406125904 (MW-12 AT 60) and 21406125911 (MW-20 AT 60) had to be diluted due to the presence of non-target background. This dilution is reflected in the elevated reporting limits.

In the EPA 8260B analysis, samples 21406125901 (MW-23 AT 60), 21406125902 (MW-22 AT 60), 21406125905 (MW-24 AT 30), 21406125910 (PT-3 AT 60), 21406125903 (MW-21 AT 60), 21406125904 (MW-12 AT 60), 21406125911 (MW-20 AT 60) and 21406125907 (MW-17 AT 25) had to be diluted to bracket the concentration of target compounds within the calibration range of the instrument. The dilution is reflected in elevated detection limits.

# Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

**Common Abbreviations Utilized in this Report**

| | |
|---|---|
| **ND** | Indicates the result was Not Detected at the specified RDL |
| **DO** | Indicates the result was Diluted Out |
| **MI** | Indicates the result was subject to Matrix Interference |
| **TNTC** | Indicates the result was Too Numerous To Count |
| **SUBC** | Indicates the analysis was Sub-Contracted |
| **FLD** | Indicates the analysis was performed in the Field |
| **PQL** | Practical Quantitation Limit |
| **MDL** | Method Detection Limit |
| **RDL** | Reporting Detection Limit |
| **00:00** | Reported as a time equivalent to 12:00 AM |

**Reporting Flags Utilized in this Report**

| | |
|---|---|
| **J** | Indicates the result is between the MDL and RDL |
| **U** | Indicates the compound was analyzed for but not detected |
| **B** | Indicates the analyte was detected in the associated Method Blank |

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

_____

Authorized Signature
**GCAL REPORT** 214061259

# Report Sample Summary

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125901 | MW-23 AT 60 | Water | 06/09/2014 09:22 | 06/12/2014 10:00 |
| 21406125902 | MW-22 AT 60 | Water | 06/09/2014 10:25 | 06/12/2014 10:00 |
| 21406125903 | MW-21 AT 60 | Water | 06/09/2014 11:34 | 06/12/2014 10:00 |
| 21406125904 | MW-12 AT 60 | Water | 06/09/2014 13:12 | 06/12/2014 10:00 |
| 21406125905 | MW-24 AT 30 | Water | 06/09/2014 14:17 | 06/12/2014 10:00 |
| 21406125906 | MW-7 AT 30 | Water | 06/09/2014 15:20 | 06/12/2014 10:00 |
| 21406125907 | MW-17 AT 25 | Water | 06/10/2014 09:02 | 06/12/2014 10:00 |
| 21406125908 | MW-19 AT 30 | Water | 06/10/2014 10:04 | 06/12/2014 10:00 |
| 21406125909 | MW-15 AT 30 | Water | 06/10/2014 10:53 | 06/12/2014 10:00 |
| 21406125910 | PT-3 AT 60 | Water | 06/10/2014 12:39 | 06/12/2014 10:00 |
| 21406125911 | MW-20 AT 60 | Water | 06/10/2014 13:50 | 06/12/2014 10:00 |

# Summary of Compounds Detected

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125901 | **MW-23 AT 60** | Water | 06/09/2014 09:22 | 06/12/2014 10:00 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 79-01-6 | Trichloroethene | 328 | 25.0 | | ug/L |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 1980 | 500 | | ug/L |
| 127-18-4 | Tetrachloroethene | 860 | 250 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 1970 | 250 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125902 | **MW-22 AT 60** | Water | 06/09/2014 10:25 | 06/12/2014 10:00 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 1030 | 50.0 | | ug/L |
| 79-01-6 | Trichloroethene | 244 | 25.0 | | ug/L |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1090 | 250 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 800 | 250 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125903 | **MW-21 AT 60** | Water | 06/09/2014 11:34 | 06/12/2014 10:00 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 79-01-6 | Trichloroethene | 187 | 50.0 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 83.5 | 50.0 | | ug/L |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 7950 | 500 | | ug/L |

# Summary of Compounds Detected (con't)

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125904 | **MW-12 AT 60** | Water | 06/09/2014 13:12 | 06/12/2014 10:00 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 126 | 50.0 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 125 | 25.0 | | ug/L |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1350 | 250 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125905 | **MW-24 AT 30** | Water | 06/09/2014 14:17 | 06/12/2014 10:00 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 79-01-6 | Trichloroethene | 153 | 10.0 | | ug/L |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 648 | 200 | | ug/L |
| 127-18-4 | Tetrachloroethene | 385 | 100 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 648 | 100 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125906 | **MW-7 AT 30** | Water | 06/09/2014 15:20 | 06/12/2014 10:00 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 8.38 | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125907 | **MW-17 AT 25** | Water | 06/10/2014 09:02 | 06/12/2014 10:00 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 533 | 200 | | ug/L |
| 127-18-4 | Tetrachloroethene | 1180 | 100 | | ug/L |
| 79-01-6 | Trichloroethene | 235 | 100 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 533 | 100 | | ug/L |

# Summary of Compounds Detected (con't)

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125908 | **MW-19 AT 30** | Water | 06/10/2014 10:04 | 06/12/2014 10:00 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 42.8 | 10.0 | | ug/L |
| 75-01-4 | Vinyl chloride | 7.29 | 5.00 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 42.6 | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125909 | **MW-15 AT 30** | Water | 06/10/2014 10:53 | 06/12/2014 10:00 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 5.17 | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125910 | **PT-3 AT 60** | Water | 06/10/2014 12:39 | 06/12/2014 10:00 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 13800 | 500 | | ug/L |
| 79-01-6 | Trichloroethene | 1390 | 500 | | ug/L |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 33400 | 10000 | | ug/L |
| 127-18-4 | Tetrachloroethene | 10900 | 5000 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 33200 | 5000 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125911 | **MW-20 AT 60** | Water | 06/10/2014 13:50 | 06/12/2014 10:00 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 521 | 50.0 | | ug/L |
| 79-01-6 | Trichloroethene | 150 | 25.0 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 518 | 25.0 | | ug/L |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1310 | 250 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125901 | **MW-23 AT 60** | Water | 06/09/2014 09:22 | 06/12/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 06/14/2014 19:44 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **540-59-0** | **1,2-Dichloroethene(Total)** | **1980** | **500** | | **ug/L** |
| **127-18-4** | **Tetrachloroethene** | **860** | **250** | | **ug/L** |
| **156-59-2** | **cis-1,2-Dichloroethene** | **1970** | **250** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 2500 | 2520 | ug/L | 101 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 2500 | 2450 | ug/L | 98 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 2500 | 2600 | ug/L | 104 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 2500 | 2460 | ug/L | 98 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 5 | 06/14/2014 21:15 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 25.0 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 25.0 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 25.0 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 25.0 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 25.0 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 25.0 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 25.0 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 25.0 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 25.0 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 25.0 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 25.0 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 25.0 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 25.0 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 25.0 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 25.0 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 25.0 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 25.0 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 25.0 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 25.0 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 25.0 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 25.0 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 25.0 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 25.0 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 25.0 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 25.0 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 25.0 | | ug/L |
| 67-64-1 | Acetone | ND | 25.0 | | ug/L |
| 71-43-2 | Benzene | ND | 25.0 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 25.0 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 25.0 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 25.0 | | ug/L |
| 75-25-2 | Bromoform | ND | 25.0 | | ug/L |
| 74-83-9 | Bromomethane | ND | 25.0 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125901 | **MW-23 AT 60** | Water | 06/09/2014 09:22 | 06/12/2014 10:00 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 5 | 06/14/2014 21:15 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 75-15-0 | Carbon disulfide | ND | 25.0 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 25.0 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 25.0 | | ug/L |
| 75-00-3 | Chloroethane | ND | 25.0 | | ug/L |
| 67-66-3 | Chloroform | ND | 25.0 | | ug/L |
| 74-87-3 | Chloromethane | ND | 25.0 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 25.0 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 25.0 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 25.0 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 25.0 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 25.0 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 25.0 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 25.0 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 25.0 | | ug/L |
| 91-20-3 | Naphthalene | ND | 25.0 | | ug/L |
| 100-42-5 | Styrene | ND | 25.0 | | ug/L |
| 108-88-3 | Toluene | ND | 25.0 | | ug/L |
| **79-01-6** | **Trichloroethene** | **328** | **25.0** | | **ug/L** |
| 75-69-4 | Trichlorofluoromethane | ND | 25.0 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 25.0 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 25.0 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 75.0 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 25.0 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 50.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 25.0 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 25.0 | | ug/L |
| 95-47-6 | o-Xylene | ND | 25.0 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 25.0 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 25.0 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 25.0 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 25.0 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 25.0 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 25.0 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 250 | 245 | ug/L | 98 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 250 | 245 | ug/L | 98 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 250 | 261 | ug/L | 104 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 250 | 253 | ug/L | 101 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125902 | **MW-22 AT 60** | Water | 06/09/2014 10:25 | 06/12/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 06/14/2014 20:07 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **1090** | **250** | | **ug/L** |
| **156-59-2** | **cis-1,2-Dichloroethene** | **800** | **250** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 2500 | 2510 | ug/L | 100 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 2500 | 2380 | ug/L | 95 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 2500 | 2630 | ug/L | 105 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 2500 | 2480 | ug/L | 99 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 5 | 06/14/2014 21:38 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 25.0 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 25.0 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 25.0 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 25.0 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 25.0 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 25.0 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 25.0 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 25.0 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 25.0 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 25.0 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 25.0 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 25.0 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 25.0 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 25.0 | | ug/L |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **1030** | **50.0** | | **ug/L** |
| 78-87-5 | 1,2-Dichloropropane | ND | 25.0 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 25.0 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 25.0 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 25.0 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 25.0 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 25.0 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 25.0 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 25.0 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 25.0 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 25.0 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 25.0 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 25.0 | | ug/L |
| 67-64-1 | Acetone | ND | 25.0 | | ug/L |
| 71-43-2 | Benzene | ND | 25.0 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 25.0 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 25.0 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 25.0 | | ug/L |
| 75-25-2 | Bromoform | ND | 25.0 | | ug/L |
| 74-83-9 | Bromomethane | ND | 25.0 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125902 | **MW-22 AT 60** | Water | 06/09/2014 10:25 | 06/12/2014 10:00 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 5 | 06/14/2014 21:38 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 75-15-0 | Carbon disulfide | ND | 25.0 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 25.0 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 25.0 | | ug/L |
| 75-00-3 | Chloroethane | ND | 25.0 | | ug/L |
| 67-66-3 | Chloroform | ND | 25.0 | | ug/L |
| 74-87-3 | Chloromethane | ND | 25.0 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 25.0 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 25.0 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 25.0 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 25.0 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 25.0 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 25.0 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 25.0 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 25.0 | | ug/L |
| 91-20-3 | Naphthalene | ND | 25.0 | | ug/L |
| 100-42-5 | Styrene | ND | 25.0 | | ug/L |
| 108-88-3 | Toluene | ND | 25.0 | | ug/L |
| **79-01-6** | **Trichloroethene** | **244** | **25.0** | | **ug/L** |
| 75-69-4 | Trichlorofluoromethane | ND | 25.0 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 25.0 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 25.0 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 75.0 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 25.0 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 50.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 25.0 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 25.0 | | ug/L |
| 95-47-6 | o-Xylene | ND | 25.0 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 25.0 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 25.0 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 25.0 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 25.0 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 25.0 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 25.0 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 250 | 243 | ug/L | 97 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 250 | 248 | ug/L | 99 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 250 | 262 | ug/L | 105 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 250 | 253 | ug/L | 101 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125903 | **MW-21 AT 60** | Water | 06/09/2014 11:34 | 06/12/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 100 | 06/15/2014 00:42 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **7950** | **500** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 5000 | 4890 | ug/L | 98 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 5000 | 4910 | ug/L | 98 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 5000 | 5230 | ug/L | 105 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 5000 | 4920 | ug/L | 98 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 10 | 06/15/2014 01:50 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 50.0 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 50.0 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 50.0 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 50.0 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 50.0 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 50.0 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 50.0 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 50.0 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 50.0 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 50.0 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 50.0 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 50.0 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 50.0 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 50.0 | | ug/L |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 100 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 50.0 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 50.0 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 50.0 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 50.0 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 50.0 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 50.0 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 50.0 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 50.0 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 50.0 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 50.0 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 50.0 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 50.0 | | ug/L |
| 67-64-1 | Acetone | ND | 50.0 | | ug/L |
| 71-43-2 | Benzene | ND | 50.0 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 50.0 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 50.0 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 50.0 | | ug/L |
| 75-25-2 | Bromoform | ND | 50.0 | | ug/L |
| 74-83-9 | Bromomethane | ND | 50.0 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 50.0 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125903 | **MW-21 AT 60** | Water | 06/09/2014 11:34 | 06/12/2014 10:00 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 10 | 06/15/2014 01:50 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | ND | 50.0 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 50.0 | | ug/L |
| 75-00-3 | Chloroethane | ND | 50.0 | | ug/L |
| 67-66-3 | Chloroform | ND | 50.0 | | ug/L |
| 74-87-3 | Chloromethane | ND | 50.0 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 50.0 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 50.0 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 50.0 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 50.0 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 50.0 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 50.0 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 50.0 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 50.0 | | ug/L |
| 91-20-3 | Naphthalene | ND | 50.0 | | ug/L |
| 100-42-5 | Styrene | ND | 50.0 | | ug/L |
| 108-88-3 | Toluene | ND | 50.0 | | ug/L |
| **79-01-6** | **Trichloroethene** | **187** | **50.0** | | **ug/L** |
| 75-69-4 | Trichlorofluoromethane | ND | 50.0 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 50.0 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 50.0 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 150 | | ug/L |
| **156-59-2** | **cis-1,2-Dichloroethene** | **83.5** | **50.0** | | **ug/L** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 50.0 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 100 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 50.0 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 50.0 | | ug/L |
| 95-47-6 | o-Xylene | ND | 50.0 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 50.0 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 50.0 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 50.0 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 50.0 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 50.0 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 50.0 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 500 | 479 | ug/L | 96 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 500 | 491 | ug/L | 98 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 500 | 519 | ug/L | 104 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 500 | 494 | ug/L | 99 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125904 | **MW-12 AT 60** | Water | 06/09/2014 13:12 | 06/12/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 06/15/2014 01:05 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **1350** | **250** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 2500 | 2470 | ug/L | 99 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 2500 | 2480 | ug/L | 99 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 2500 | 2690 | ug/L | 108 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 2500 | 2410 | ug/L | 96 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 5 | 06/15/2014 02:13 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 25.0 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 25.0 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 25.0 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 25.0 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 25.0 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 25.0 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 25.0 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 25.0 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 25.0 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 25.0 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 25.0 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 25.0 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 25.0 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 25.0 | | ug/L |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **126** | **50.0** | | **ug/L** |
| 78-87-5 | 1,2-Dichloropropane | ND | 25.0 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 25.0 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 25.0 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 25.0 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 25.0 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 25.0 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 25.0 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 25.0 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 25.0 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 25.0 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 25.0 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 25.0 | | ug/L |
| 67-64-1 | Acetone | ND | 25.0 | | ug/L |
| 71-43-2 | Benzene | ND | 25.0 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 25.0 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 25.0 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 25.0 | | ug/L |
| 75-25-2 | Bromoform | ND | 25.0 | | ug/L |
| 74-83-9 | Bromomethane | ND | 25.0 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 25.0 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125904 | **MW-12 AT 60** | Water | 06/09/2014 13:12 | 06/12/2014 10:00 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 5 | 06/15/2014 02:13 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | ND | 25.0 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 25.0 | | ug/L |
| 75-00-3 | Chloroethane | ND | 25.0 | | ug/L |
| 67-66-3 | Chloroform | ND | 25.0 | | ug/L |
| 74-87-3 | Chloromethane | ND | 25.0 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 25.0 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 25.0 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 25.0 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 25.0 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 25.0 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 25.0 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 25.0 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 25.0 | | ug/L |
| 91-20-3 | Naphthalene | ND | 25.0 | | ug/L |
| 100-42-5 | Styrene | ND | 25.0 | | ug/L |
| 108-88-3 | Toluene | ND | 25.0 | | ug/L |
| 79-01-6 | Trichloroethene | ND | 25.0 | | ug/L |
| 75-69-4 | Trichlorofluoromethane | ND | 25.0 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 25.0 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 25.0 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 75.0 | | ug/L |
| **156-59-2** | **cis-1,2-Dichloroethene** | **125** | **25.0** | | **ug/L** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 25.0 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 50.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 25.0 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 25.0 | | ug/L |
| 95-47-6 | o-Xylene | ND | 25.0 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 25.0 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 25.0 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 25.0 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 25.0 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 25.0 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 25.0 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 250 | 242 | ug/L | 97 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 250 | 245 | ug/L | 98 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 250 | 264 | ug/L | 106 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 250 | 256 | ug/L | 102 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125905 | **MW-24 AT 30** | Water | 06/09/2014 14:17 | 06/12/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 20 | 06/14/2014 20:30 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **540-59-0** | **1,2-Dichloroethene(Total)** | **648** | **200** | | **ug/L** |
| **127-18-4** | **Tetrachloroethene** | **385** | **100** | | **ug/L** |
| **156-59-2** | **cis-1,2-Dichloroethene** | **648** | **100** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 1000 | 1000 | ug/L | 100 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 1000 | 969 | ug/L | 97 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 1000 | 1070 | ug/L | 107 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 1000 | 1000 | ug/L | 100 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 2 | 06/14/2014 22:01 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 10.0 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 10.0 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 10.0 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 10.0 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 10.0 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 10.0 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 10.0 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 10.0 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 10.0 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 10.0 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10.0 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 10.0 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 10.0 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 10.0 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 10.0 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 10.0 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 10.0 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 10.0 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 10.0 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 10.0 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 10.0 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 10.0 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 10.0 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 10.0 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 10.0 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 10.0 | | ug/L |
| 67-64-1 | Acetone | ND | 10.0 | | ug/L |
| 71-43-2 | Benzene | ND | 10.0 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 10.0 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 10.0 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 10.0 | | ug/L |
| 75-25-2 | Bromoform | ND | 10.0 | | ug/L |
| 74-83-9 | Bromomethane | ND | 10.0 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125905 | **MW-24 AT 30** | Water | 06/09/2014 14:17 | 06/12/2014 10:00 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 2 | 06/14/2014 22:01 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 75-15-0 | Carbon disulfide | ND | 10.0 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 10.0 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 10.0 | | ug/L |
| 75-00-3 | Chloroethane | ND | 10.0 | | ug/L |
| 67-66-3 | Chloroform | ND | 10.0 | | ug/L |
| 74-87-3 | Chloromethane | ND | 10.0 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 10.0 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 10.0 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 10.0 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 10.0 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 10.0 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 10.0 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 10.0 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 10.0 | | ug/L |
| 91-20-3 | Naphthalene | ND | 10.0 | | ug/L |
| 100-42-5 | Styrene | ND | 10.0 | | ug/L |
| 108-88-3 | Toluene | ND | 10.0 | | ug/L |
| **79-01-6** | **Trichloroethene** | **153** | **10.0** | | **ug/L** |
| 75-69-4 | Trichlorofluoromethane | ND | 10.0 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 10.0 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 10.0 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 30.0 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 10.0 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 20.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 10.0 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 10.0 | | ug/L |
| 95-47-6 | o-Xylene | ND | 10.0 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 10.0 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 10.0 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 10.0 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 10.0 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 10.0 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 10.0 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 100 | 96.9 | ug/L | 97 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 100 | 98.5 | ug/L | 99 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 100 | 105 | ug/L | 105 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 100 | 102 | ug/L | 102 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125906 | **MW-7 AT 30** | Water | 06/09/2014 15:20 | 06/12/2014 10:00 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 06/14/2014 18:36 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.00 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.00 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.00 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.00 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.00 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.00 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.00 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.00 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.00 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.00 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.00 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.00 | | ug/L |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 10.0 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.00 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.00 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.00 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.00 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.00 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.00 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 5.00 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 5.00 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 5.00 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 5.00 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 5.00 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | | ug/L |
| 67-64-1 | Acetone | ND | 5.00 | | ug/L |
| 71-43-2 | Benzene | ND | 5.00 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 5.00 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 5.00 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 5.00 | | ug/L |
| 75-25-2 | Bromoform | ND | 5.00 | | ug/L |
| 74-83-9 | Bromomethane | ND | 5.00 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 5.00 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 5.00 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 5.00 | | ug/L |
| 75-00-3 | Chloroethane | ND | 5.00 | | ug/L |
| 67-66-3 | Chloroform | ND | 5.00 | | ug/L |
| 74-87-3 | Chloromethane | ND | 5.00 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 5.00 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 5.00 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.00 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 5.00 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 5.00 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 5.00 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 5.00 | | ug/L |
| 91-20-3 | Naphthalene | ND | 5.00 | | ug/L |
| 100-42-5 | Styrene | ND | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125906 | **MW-7 AT 30** | Water | 06/09/2014 15:20 | 06/12/2014 10:00 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 06/14/2014 18:36 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **8.38** | **5.00** | | **ug/L** |
| 108-88-3 | Toluene | ND | 5.00 | | ug/L |
| 79-01-6 | Trichloroethene | ND | 5.00 | | ug/L |
| 75-69-4 | Trichlorofluoromethane | ND | 5.00 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.00 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 5.00 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 15.0 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 10.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 5.00 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | | ug/L |
| 95-47-6 | o-Xylene | ND | 5.00 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 5.00 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 5.00 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 5.00 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.00 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 50 | 50.3 | ug/L | 101 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 50 | 48.3 | ug/L | 97 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 50 | 52.6 | ug/L | 105 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50 | 49.6 | ug/L | 99 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125907 | **MW-17 AT 25** | Water | 06/10/2014 09:02 | 06/12/2014 10:00 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 06/14/2014 23:35 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.00 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.00 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.00 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.00 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.00 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.00 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.00 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.00 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.00 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.00 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.00 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.00 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.00 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.00 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.00 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.00 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.00 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.00 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 5.00 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 5.00 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 5.00 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 5.00 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 5.00 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | | ug/L |
| 67-64-1 | Acetone | ND | 5.00 | | ug/L |
| 71-43-2 | Benzene | ND | 5.00 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 5.00 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 5.00 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 5.00 | | ug/L |
| 75-25-2 | Bromoform | ND | 5.00 | | ug/L |
| 74-83-9 | Bromomethane | ND | 5.00 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 5.00 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 5.00 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 5.00 | | ug/L |
| 75-00-3 | Chloroethane | ND | 5.00 | | ug/L |
| 67-66-3 | Chloroform | ND | 5.00 | | ug/L |
| 74-87-3 | Chloromethane | ND | 5.00 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 5.00 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 5.00 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.00 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 5.00 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 5.00 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 5.00 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 5.00 | | ug/L |
| 91-20-3 | Naphthalene | ND | 5.00 | | ug/L |
| 100-42-5 | Styrene | ND | 5.00 | | ug/L |
| 108-88-3 | Toluene | ND | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125907 | **MW-17 AT 25** | Water | 06/10/2014 09:02 | 06/12/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 06/14/2014 23:35 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 75-69-4 | Trichlorofluoromethane | ND | 5.00 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.00 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 5.00 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 15.0 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 10.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 5.00 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | | ug/L |
| 95-47-6 | o-Xylene | ND | 5.00 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 5.00 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 5.00 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 5.00 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.00 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 50 | 50.1 | ug/L | 100 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 50 | 48.6 | ug/L | 97 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 50 | 51.9 | ug/L | 104 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50 | 51.2 | ug/L | 102 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 20 | 06/16/2014 23:33 | CLH | 534785 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **540-59-0** | **1,2-Dichloroethene(Total)** | **533** | **200** | | **ug/L** |
| **127-18-4** | **Tetrachloroethene** | **1180** | **100** | | **ug/L** |
| **79-01-6** | **Trichloroethene** | **235** | **100** | | **ug/L** |
| **156-59-2** | **cis-1,2-Dichloroethene** | **533** | **100** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 1000 | 1020 | ug/L | 102 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 1000 | 1010 | ug/L | 101 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 1000 | 1060 | ug/L | 106 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 1000 | 1000 | ug/L | 100 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125908 | **MW-19 AT 30** | Water | 06/10/2014 10:04 | 06/12/2014 10:00 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 06/14/2014 18:59 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.00 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.00 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.00 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.00 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.00 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.00 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.00 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.00 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.00 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.00 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.00 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.00 | | ug/L |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **42.8** | **10.0** | | **ug/L** |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.00 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.00 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.00 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.00 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.00 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.00 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 5.00 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 5.00 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 5.00 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 5.00 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 5.00 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | | ug/L |
| 67-64-1 | Acetone | ND | 5.00 | | ug/L |
| 71-43-2 | Benzene | ND | 5.00 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 5.00 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 5.00 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 5.00 | | ug/L |
| 75-25-2 | Bromoform | ND | 5.00 | | ug/L |
| 74-83-9 | Bromomethane | ND | 5.00 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 5.00 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 5.00 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 5.00 | | ug/L |
| 75-00-3 | Chloroethane | ND | 5.00 | | ug/L |
| 67-66-3 | Chloroform | ND | 5.00 | | ug/L |
| 74-87-3 | Chloromethane | ND | 5.00 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 5.00 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 5.00 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.00 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 5.00 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 5.00 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 5.00 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 5.00 | | ug/L |
| 91-20-3 | Naphthalene | ND | 5.00 | | ug/L |
| 100-42-5 | Styrene | ND | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125908 | **MW-19 AT 30** | Water | 06/10/2014 10:04 | 06/12/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 06/14/2014 18:59 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | ND | 5.00 | | ug/L |
| 108-88-3 | Toluene | ND | 5.00 | | ug/L |
| 79-01-6 | Trichloroethene | ND | 5.00 | | ug/L |
| 75-69-4 | Trichlorofluoromethane | ND | 5.00 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.00 | | ug/L |
| **75-01-4** | **Vinyl chloride** | **7.29** | **5.00** | | **ug/L** |
| 1330-20-7 | Xylene (total) | ND | 15.0 | | ug/L |
| **156-59-2** | **cis-1,2-Dichloroethene** | **42.6** | **5.00** | | **ug/L** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 10.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 5.00 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | | ug/L |
| 95-47-6 | o-Xylene | ND | 5.00 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 5.00 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 5.00 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 5.00 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.00 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 50 | 48.9 | ug/L | 98 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 50 | 50.1 | ug/L | 100 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 50 | 53.3 | ug/L | 107 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50 | 50.7 | ug/L | 101 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125909 | **MW-15 AT 30** | Water | 06/10/2014 10:53 | 06/12/2014 10:00 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 06/14/2014 19:21 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.00 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.00 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.00 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.00 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.00 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.00 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.00 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.00 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.00 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.00 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.00 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.00 | | ug/L |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 10.0 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.00 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.00 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.00 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.00 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.00 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.00 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 5.00 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 5.00 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 5.00 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 5.00 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 5.00 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | | ug/L |
| **67-64-1** | **Acetone** | **5.17** | **5.00** | | **ug/L** |
| 71-43-2 | Benzene | ND | 5.00 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 5.00 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 5.00 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 5.00 | | ug/L |
| 75-25-2 | Bromoform | ND | 5.00 | | ug/L |
| 74-83-9 | Bromomethane | ND | 5.00 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 5.00 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 5.00 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 5.00 | | ug/L |
| 75-00-3 | Chloroethane | ND | 5.00 | | ug/L |
| 67-66-3 | Chloroform | ND | 5.00 | | ug/L |
| 74-87-3 | Chloromethane | ND | 5.00 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 5.00 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 5.00 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.00 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 5.00 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 5.00 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 5.00 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 5.00 | | ug/L |
| 91-20-3 | Naphthalene | ND | 5.00 | | ug/L |
| 100-42-5 | Styrene | ND | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125909 | **MW-15 AT 30** | Water | 06/10/2014 10:53 | 06/12/2014 10:00 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 06/14/2014 19:21 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | ND | 5.00 | | ug/L |
| 108-88-3 | Toluene | ND | 5.00 | | ug/L |
| 79-01-6 | Trichloroethene | ND | 5.00 | | ug/L |
| 75-69-4 | Trichlorofluoromethane | ND | 5.00 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.00 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 5.00 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 15.0 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 10.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 5.00 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | | ug/L |
| 95-47-6 | o-Xylene | ND | 5.00 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 5.00 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 5.00 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 5.00 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.00 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 50 | 49.7 | ug/L | 99 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 50 | 47.9 | ug/L | 96 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 50 | 53.4 | ug/L | 107 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50 | 49.4 | ug/L | 99 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125910 | **PT-3 AT 60** | Water | 06/10/2014 12:39 | 06/12/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1000 | 06/14/2014 20:52 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **540-59-0** | **1,2-Dichloroethene(Total)** | **33400** | **10000** | | **ug/L** |
| **127-18-4** | **Tetrachloroethene** | **10900** | **5000** | | **ug/L** |
| **156-59-2** | **cis-1,2-Dichloroethene** | **33200** | **5000** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 50000 | 48200 | ug/L | 96 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 50000 | 50200 | ug/L | 100 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 50000 | 53100 | ug/L | 106 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50000 | 51500 | ug/L | 103 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 100 | 06/14/2014 22:23 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 500 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 500 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 500 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 500 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 500 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 500 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 500 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 500 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 500 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 500 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 500 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 500 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 500 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 500 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 500 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 500 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 500 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 500 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 500 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 500 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 500 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 500 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 500 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 500 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 500 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 500 | | ug/L |
| **67-64-1** | **Acetone** | **13800** | **500** | | **ug/L** |
| 71-43-2 | Benzene | ND | 500 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 500 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 500 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 500 | | ug/L |
| 75-25-2 | Bromoform | ND | 500 | | ug/L |
| 74-83-9 | Bromomethane | ND | 500 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125910 | **PT-3 AT 60** | Water | 06/10/2014 12:39 | 06/12/2014 10:00 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 100 | 06/14/2014 22:23 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 75-15-0 | Carbon disulfide | ND | 500 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 500 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 500 | | ug/L |
| 75-00-3 | Chloroethane | ND | 500 | | ug/L |
| 67-66-3 | Chloroform | ND | 500 | | ug/L |
| 74-87-3 | Chloromethane | ND | 500 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 500 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 500 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 500 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 500 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 500 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 500 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 500 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 500 | | ug/L |
| 91-20-3 | Naphthalene | ND | 500 | | ug/L |
| 100-42-5 | Styrene | ND | 500 | | ug/L |
| 108-88-3 | Toluene | ND | 500 | | ug/L |
| **79-01-6** | **Trichloroethene** | **1390** | **500** | | **ug/L** |
| 75-69-4 | Trichlorofluoromethane | ND | 500 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 500 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 500 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 1500 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 500 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 1000 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 500 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 500 | | ug/L |
| 95-47-6 | o-Xylene | ND | 500 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 500 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 500 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 500 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 500 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 500 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 500 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 5000 | 4960 | ug/L | 99 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 5000 | 4700 | ug/L | 94 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 5000 | 5220 | ug/L | 104 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 5000 | 4990 | ug/L | 100 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125911 | **MW-20 AT 60** | Water | 06/10/2014 13:50 | 06/12/2014 10:00 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 06/15/2014 01:28 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **1310** | **250** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 2500 | 2420 | ug/L | 97 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 2500 | 2460 | ug/L | 98 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 2500 | 2660 | ug/L | 106 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 2500 | 2530 | ug/L | 101 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 5 | 06/15/2014 02:36 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 25.0 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 25.0 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 25.0 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 25.0 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 25.0 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 25.0 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 25.0 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 25.0 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 25.0 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 25.0 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 25.0 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 25.0 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 25.0 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 25.0 | | ug/L |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **521** | **50.0** | | **ug/L** |
| 78-87-5 | 1,2-Dichloropropane | ND | 25.0 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 25.0 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 25.0 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 25.0 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 25.0 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 25.0 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 25.0 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 25.0 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 25.0 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 25.0 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 25.0 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 25.0 | | ug/L |
| 67-64-1 | Acetone | ND | 25.0 | | ug/L |
| 71-43-2 | Benzene | ND | 25.0 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 25.0 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 25.0 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 25.0 | | ug/L |
| 75-25-2 | Bromoform | ND | 25.0 | | ug/L |
| 74-83-9 | Bromomethane | ND | 25.0 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 25.0 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21406125911 | **MW-20 AT 60** | Water | 06/10/2014 13:50 | 06/12/2014 10:00 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 5 | 06/15/2014 02:36 | JCK | 534641 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | ND | 25.0 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 25.0 | | ug/L |
| 75-00-3 | Chloroethane | ND | 25.0 | | ug/L |
| 67-66-3 | Chloroform | ND | 25.0 | | ug/L |
| 74-87-3 | Chloromethane | ND | 25.0 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 25.0 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 25.0 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 25.0 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 25.0 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 25.0 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 25.0 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 25.0 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 25.0 | | ug/L |
| 91-20-3 | Naphthalene | ND | 25.0 | | ug/L |
| 100-42-5 | Styrene | ND | 25.0 | | ug/L |
| 108-88-3 | Toluene | ND | 25.0 | | ug/L |
| **79-01-6** | **Trichloroethene** | **150** | **25.0** | | **ug/L** |
| 75-69-4 | Trichlorofluoromethane | ND | 25.0 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 25.0 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 25.0 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 75.0 | | ug/L |
| **156-59-2** | **cis-1,2-Dichloroethene** | **518** | **25.0** | | **ug/L** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 25.0 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 50.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 25.0 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 25.0 | | ug/L |
| 95-47-6 | o-Xylene | ND | 25.0 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 25.0 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 25.0 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 25.0 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 25.0 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 25.0 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 25.0 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 250 | 238 | ug/L | 95 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 250 | 247 | ug/L | 99 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 250 | 261 | ug/L | 104 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 250 | 256 | ug/L | 102 | 71 - 127 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 534641 | **Client ID** | MB534641 | | | LCS534641 | | | LCSD534641 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1327608 | | | 1327609 | | | 1327610 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 06/14/2014 18:13 | | | 06/14/2014 16:42 | | | 06/14/2014 17:05 | | |
| | | **Matrix** | Water | | | Water | | | Water | | |
| **EPA 8260B** | | **Units** | ug/L | **Spike** | **Result** | | **Control** | **Result** | | | **RPD** |
| | | **Result** | **RDL** | **Added** | | **% R** | **Limits % R** | | **% R** | **RPD** | **Limit** |
| 67-64-1 | Acetone | ND | 5.00 | 50.0 | 54.3 | 109 | 44 - 156 | 56.6 | 113 | 4 | 30 |
| 74-97-5 | Bromochloromethane | ND | 5.00 | 50.0 | 44.8 | 90 | 76 - 130 | 42.7 | 85 | 5 | 30 |
| 75-27-4 | Bromodichloromethane | ND | 5.00 | 50.0 | 45.5 | 91 | 74 - 125 | 44.8 | 90 | 2 | 30 |
| 75-25-2 | Bromoform | ND | 5.00 | 50.0 | 47.2 | 94 | 64 - 122 | 48.6 | 97 | 3 | 30 |
| 74-83-9 | Bromomethane | ND | 5.00 | 50.0 | 46.1 | 92 | 47 - 138 | 44.3 | 89 | 4 | 30 |
| 75-15-0 | Carbon disulfide | ND | 5.00 | 50.0 | 47.1 | 94 | 69 - 136 | 44.8 | 90 | 5 | 30 |
| 56-23-5 | Carbon tetrachloride | ND | 5.00 | 50.0 | 47.7 | 95 | 76 - 128 | 46.4 | 93 | 3 | 30 |
| 75-00-3 | Chloroethane | ND | 5.00 | 50.0 | 43.1 | 86 | 62 - 141 | 45.1 | 90 | 5 | 30 |
| 136777-61-2 | m,p-Xylene | ND | 10.0 | 100 | 98.0 | 98 | 74 - 126 | 96.8 | 97 | 1 | 30 |
| 67-66-3 | Chloroform | ND | 5.00 | 50.0 | 45.6 | 91 | 75 - 122 | 44.4 | 89 | 3 | 30 |
| 74-87-3 | Chloromethane | ND | 5.00 | 50.0 | 45.3 | 91 | 59 - 132 | 44.0 | 88 | 3 | 30 |
| 124-48-1 | Dibromochloromethane | ND | 5.00 | 50.0 | 46.3 | 93 | 71 - 123 | 46.4 | 93 | 0 | 30 |
| 74-95-3 | Dibromomethane | ND | 5.00 | 50.0 | 47.3 | 95 | 72 - 129 | 47.1 | 94 | 0 | 30 |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.00 | 50.0 | 47.4 | 95 | 58 - 140 | 45.9 | 92 | 3 | 30 |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.00 | 50.0 | 48.5 | 97 | 74 - 127 | 47.4 | 95 | 2 | 30 |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.00 | 50.0 | 47.4 | 95 | 71 - 129 | 48.3 | 97 | 2 | 30 |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.00 | 50.0 | 50.3 | 101 | 73 - 130 | 49.1 | 98 | 2 | 30 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | 50.0 | 47.8 | 96 | 69 - 132 | 46.7 | 93 | 2 | 30 |
| 75-09-2 | Methylene chloride | ND | 5.00 | 50.0 | 44.9 | 90 | 68 - 132 | 43.5 | 87 | 3 | 30 |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.00 | 50.0 | 49.7 | 99 | 72 - 128 | 49.2 | 98 | 1 | 30 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | 50.0 | 53.1 | 106 | 71 - 132 | 51.2 | 102 | 4 | 30 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | 50.0 | 51.3 | 103 | 71 - 131 | 50.6 | 101 | 1 | 30 |
| 100-41-4 | Ethylbenzene | ND | 5.00 | 50.0 | 46.1 | 92 | 74 - 126 | 45.0 | 90 | 2 | 30 |
| 591-78-6 | 2-Hexanone | ND | 5.00 | 50.0 | 58.0 | 116 | 50 - 135 | 60.2 | 120 | 4 | 30 |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | 50.0 | 51.8 | 104 | 71 - 125 | 51.0 | 102 | 2 | 30 |
| 78-93-3 | 2-Butanone | ND | 5.00 | 50.0 | 56.1 | 112 | 58 - 137 | 60.4 | 121 | 7 | 30 |
| 74-88-4 | Methyl iodide | ND | 5.00 | 50.0 | 36.1 | 72 | 57 - 141 | 37.5 | 75 | 4 | 30 |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | 50.0 | 58.2 | 116 | 57 - 132 | 58.4 | 117 | 0 | 30 |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | 50.0 | 49.9 | 100 | 75 - 129 | 47.4 | 95 | 5 | 30 |
| 100-42-5 | Styrene | ND | 5.00 | 50.0 | 52.1 | 104 | 71 - 127 | 52.3 | 105 | 0 | 30 |
| 127-18-4 | Tetrachloroethene | ND | 5.00 | 50.0 | 46.8 | 94 | 68 - 128 | 44.9 | 90 | 4 | 30 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | 50.0 | 47.1 | 94 | 75 - 124 | 45.7 | 91 | 3 | 30 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | 50.0 | 56.0 | 112 | 70 - 122 | 55.7 | 111 | 1 | 30 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 534641 | **Client ID** | MB534641 | | | LCS534641 | | | LCSD534641 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1327608 | | | 1327609 | | | 1327610 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 06/14/2014 18:13 | | | 06/14/2014 16:42 | | | 06/14/2014 17:05 | | |
| | | **Matrix** | Water | | | Water | | | Water | | |
| **EPA 8260B** | | **Units** | ug/L | **Spike** | **Result** | | **Control** | **Result** | | | **RPD** |
| | | **Result** | **RDL** | **Added** | | **% R** | **Limits % R** | | **% R** | **RPD** | **Limit** |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.00 | 50.0 | 54.8 | 110 | 61 - 135 | 53.6 | 107 | 2 | 30 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.00 | 50.0 | 45.7 | 91 | 76 - 126 | 45.5 | 91 | 0 | 30 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.00 | 50.0 | 47.5 | 95 | 72 - 121 | 47.7 | 95 | 0 | 30 |
| 75-69-4 | Trichlorofluoromethane | ND | 5.00 | 50.0 | 45.8 | 92 | 72 - 136 | 43.1 | 86 | 6 | 30 |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.00 | 50.0 | 51.2 | 102 | 70 - 120 | 50.9 | 102 | 1 | 30 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.00 | 50.0 | 50.6 | 101 | 74 - 125 | 49.3 | 99 | 3 | 30 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.00 | 50.0 | 50.8 | 102 | 71 - 132 | 48.8 | 98 | 4 | 30 |
| 75-01-4 | Vinyl chloride | ND | 5.00 | 50.0 | 50.3 | 101 | 68 - 132 | 47.8 | 96 | 5 | 30 |
| 95-47-6 | o-Xylene | ND | 5.00 | 50.0 | 52.7 | 105 | 73 - 130 | 52.4 | 105 | 1 | 30 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.00 | 50.0 | 51.5 | 103 | 57 - 121 | 54.6 | 109 | 6 | 30 |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.00 | 50.0 | 47.3 | 95 | 70 - 124 | 48.0 | 96 | 1 | 30 |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 5.00 | 50.0 | 52.5 | 105 | 71 - 125 | 40.5 | 81 | 26 | 30 |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 10.0 | 100 | 98.1 | 98 | 74 - 128 | 95.8 | 96 | 2 | 30 |
| 99-87-6 | 4-Isopropyltoluene | ND | 5.00 | 50.0 | 53.4 | 107 | 71 - 129 | 50.9 | 102 | 5 | 30 |
| 1330-20-7 | Xylene (total) | ND | 15.0 | 150 | 151 | 101 | 74 - 127 | 149 | 99 | 1 | 30 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.00 | 50.0 | 56.4 | 113 | 56 - 132 | 56.8 | 114 | 1 | 30 |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.00 | 50.0 | 50.0 | 100 | 77 - 124 | 49.1 | 98 | 2 | 30 |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.00 | 50.0 | 45.3 | 91 | 72 - 136 | 43.3 | 87 | 5 | 30 |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.00 | 50.0 | 48.9 | 98 | 72 - 131 | 48.2 | 96 | 1 | 30 |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.00 | 50.0 | 48.5 | 97 | 74 - 122 | 48.2 | 96 | 1 | 30 |
| 108-86-1 | Bromobenzene | ND | 5.00 | 50.0 | 48.5 | 97 | 71 - 120 | 47.3 | 95 | 3 | 30 |
| 95-49-8 | 2-Chlorotoluene | ND | 5.00 | 50.0 | 49.4 | 99 | 72 - 127 | 47.6 | 95 | 4 | 30 |
| 106-43-4 | 4-Chlorotoluene | ND | 5.00 | 50.0 | 47.5 | 95 | 75 - 126 | 46.0 | 92 | 3 | 30 |
| 98-06-6 | tert-Butylbenzene | ND | 5.00 | 50.0 | 48.9 | 98 | 72 - 126 | 46.5 | 93 | 5 | 30 |
| 135-98-8 | sec-Butylbenzene | ND | 5.00 | 50.0 | 51.5 | 103 | 70 - 136 | 49.3 | 99 | 4 | 30 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.00 | 50.0 | 47.3 | 95 | 74 - 126 | 45.6 | 91 | 4 | 30 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.00 | 50.0 | 48.0 | 96 | 72 - 122 | 46.6 | 93 | 3 | 30 |
| 104-51-8 | n-Butylbenzene | ND | 5.00 | 50.0 | 51.8 | 104 | 69 - 134 | 49.1 | 98 | 5 | 30 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.00 | 50.0 | 47.1 | 94 | 71 - 126 | 45.9 | 92 | 3 | 30 |
| 87-68-3 | Hexachlorobutadiene | ND | 5.00 | 50.0 | 54.1 | 108 | 61 - 144 | 51.2 | 102 | 6 | 30 |
| 91-20-3 | Naphthalene | ND | 5.00 | 50.0 | 50.4 | 101 | 57 - 138 | 51.4 | 103 | 2 | 35 |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.00 | 50.0 | 45.5 | 91 | 69 - 129 | 43.4 | 87 | 5 | 20 |
| 71-43-2 | Benzene | ND | 5.00 | 50.0 | 48.5 | 97 | 70 - 129 | 48.4 | 97 | 0 | 20 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 534641 | **Client ID** | MB534641 | | | LCS534641 | | | LCSD534641 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1327608 | | | 1327609 | | | 1327610 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 06/14/2014 18:13 | | | 06/14/2014 16:42 | | | 06/14/2014 17:05 | | |
| | | **Matrix** | Water | | | Water | | | Water | | |
| **EPA 8260B** | | **Units** | **Result** | ug/L **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 79-01-6 | Trichloroethene | | ND | 5.00 | 50.0 | 46.6 | 93 | 76 - 129 | 45.5 | 91 | 2 | 20 |
| 108-88-3 | Toluene | | ND | 5.00 | 50.0 | 47.2 | 94 | 72 - 120 | 46.1 | 92 | 2 | 20 |
| 108-90-7 | Chlorobenzene | | ND | 5.00 | 50.0 | 46.7 | 93 | 74 - 123 | 46.6 | 93 | 0 | 20 |
| **Surrogate** | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | | 49.8 | 100 | 50 | 51.4 | 103 | 78 - 130 | 52.9 | 106 | | |
| 1868-53-7 | Dibromofluoromethane | | 48.4 | 97 | 50 | 49 | 98 | 77 - 127 | 48.6 | 97 | | |
| 2037-26-5 | Toluene d8 | | 53.3 | 107 | 50 | 48.8 | 98 | 76 - 134 | 48.1 | 96 | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | | 49.9 | 100 | 50 | 51 | 102 | 71 - 127 | 51.7 | 103 | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 534785 | **Client ID** | MB534785 | | | LCS534785 | | | LCSD534785 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1328274 | | | 1328275 | | | 1328276 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 06/16/2014 23:11 | | | 06/16/2014 20:33 | | | 06/16/2014 20:56 | | |
| | | **Matrix** | Water | | | Water | | | Water | | |
| **EPA 8260B** | | **Units** | **Result** | ug/L **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 156-59-2 | cis-1,2-Dichloroethene | | ND | 5.00 | 50.0 | 49.1 | 98 | 73 - 130 | 46.9 | 94 | 5 | 30 |
| 127-18-4 | Tetrachloroethene | | ND | 5.00 | 50.0 | 47.1 | 94 | 68 - 128 | 46.4 | 93 | 1 | 30 |
| 540-59-0 | 1,2-Dichloroethene(Total) | | ND | 10.0 | 100 | 91.7 | 92 | 74 - 128 | 89.4 | 89 | 3 | 30 |
| 79-01-6 | Trichloroethene | | ND | 5.00 | 50.0 | 47.2 | 94 | 76 - 129 | 46.6 | 93 | 1 | 20 |
| **Surrogate** | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | | 52.3 | 105 | 50 | 53.2 | 106 | 78 - 130 | 54.3 | 109 | | |
| 1868-53-7 | Dibromofluoromethane | | 48.7 | 97 | 50 | 49.1 | 98 | 77 - 127 | 49.1 | 98 | | |
| 2037-26-5 | Toluene d8 | | 52.7 | 105 | 50 | 48.3 | 97 | 76 - 134 | 49.6 | 99 | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | | 50.4 | 101 | 50 | 50.6 | 101 | 71 - 127 | 50.4 | 101 | | |

# GCAL ANALYTICAL LABORATORIES, LLC

# CHAIN OF CUSTODY RECORD

7979 Innovation Park Dr., Baton Rouge, LA 70820-7402
Phone: 225.769.4900 • Fax: 225.767.5717 • www.gcal.com

Client ID: 4642 - Sage Environmental
SDG: 214061259
Due Date: 06/16/14

**Report to:**
Client: Sage Environmental Consultants
Address: 600 Chastain RD. Suite 320
Kennesaw, GA 30144
Contact: Jack Winne
Phone: 678-431-0130
E-mail: Jack.winne@sageenvironmental.com

**Bill to:**
Client: SAME
Address:
Contact:
Phone:
E-mail:

Analytical Requ[illegible] & Method: 8260B VOCs

GCAL use only: 240745 Line 1
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 3.4 EZZ

P.O. Number: 1221-4-1
Project Name/Number: Roylac GW
Sampled By: Damian P. Mason

☐ Dissolved Analysis Requested
☐ Field filtered
☐ Lab filtered

| Matrix[1] | Date | Time (2400) | Comp | Grab | Sample Description | No Containers | Preservative |
|---|---|---|---|---|---|---|---|
| W | 6/9/14 | 0922 | | X | MW-23@60' | 3 | 1 |
| | | 1025 | | | MW-22@60' | | 2 |
| | | 1134 | | | MW-21@60' | | 3 |
| | | 1312 | | | MW-12@60' | | 4 |
| | | 1417 | | | MW-24@30' | | 5 |
| | | 1520 | | | MW-7@30' | | 6 |
| W | 6/10/14 | 0902 | | X | MW-17@25' | | 7 |
| | | 1004 | | | MW-19@30' | | 8 |
| | | 1053 | | | MW-15@30' | | 9 |
| | | 1239 | | | PT-3@60' | | 10 |
| | | 1350 | | | MW-20@60' | | 11 |

Air Bill No: 7702 6713 0717

Turn Around Time (Business Days): ☐ 24h* ☐ 48h* ☐ 3 days* ☐ 1 week* ☒ Standard (Per Contract/Quote)

| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Date: | Time: |
|---|---|---|---|---|---|
| P. Mason | 6/11/14 | 1052 | Hugo Alvez | 6/11/14 | 10:52 |
| Hugo Alvez | 6/11/14 | 13:00 | | | |
| Seder | 6/12/14 | 1000 | [illegible] | 6/12/14 | 1000 |

Note:

By submitting these samples, you agree to GCAL's terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = solid, L = liquid, T = tissue

*Requires prior approval, rush charges may apply.

We cannot accept verbal changes. Please email written changes to your PM.

WHITE: CLIENT FINAL REPORT - CANARY: CLIENT

GCAL ANALYTICAL LABORATORIES, LLC

# SAMPLE RECEIVING CHECKLIST

*214061259*

| SAMPLE DELIVERY GROUP 214061259 | |
|---|---|
| **Client**<br>*4642 - Sage Environmental* | **Transport Method**<br>FEDEX |
| **Profile Number**<br>240745 | **Received By**<br>Saucier, Charlotte M. |
| **Line Item(s)**<br>1 - VOC | **Receive Date(s)**<br>06/12/14 |

| CHECKLIST | YES | NO | NA |
|---|---|---|---|
| Were all samples received using proper thermal preservation? | ☑ | ☐ | ☐ |
| When used, were all custody seals intact? | ☑ | ☐ | ☐ |
| Were all samples received in proper containers? | ☑ | ☐ | ☐ |
| Were all samples received using proper chemical preservation? | ☑ | ☐ | ☐ |
| Was preservative added to any container at the lab? | ☐ | ☑ | ☐ |
| Were all containers received in good condition? | ☑ | ☐ | ☐ |
| Were all VOA vials received with no head space? | ☑ | ☐ | ☐ |
| Do all sample labels match the Chain of Custody? | ☑ | ☐ | ☐ |
| Did the Chain of Custody list the sampling technician? | ☑ | ☐ | ☐ |
| Was the COC maintained i.e. all signatures, dates and time of receipt included? | ☑ | ☐ | ☐ |

## COOLERS

| Airbill | Thermometer ID: E22 | Temp(°C) |
|---|---|---|
| 7702 6713 0717 | | 3.4 |

## DISCREPANCIES

None

## LAB PRESERVATIONS

None

**NOTES**

*NELAP CERTIFICATE NUMBER 01955*
*DOD ELAP CERTIFICATE NUMBER L13-190*

# ANALYTICAL RESULTS

**PERFORMED BY**


**GCAL, LLC**

**7979 Innovation Park Dr.**

**Baton Rouge, LA 70820**


**Report Date** 09/26/2014

**GCAL Report** 214092208

| | |
|---|---|
| ***Deliver To*** | Sage Environmental Services<br>600 Chastain Rd.<br>Kennesaw, GA 30144<br>678-431-0130 |
| ***Attn*** | Jack Wintle |

***Project*** Rayloc GW Sampling

# Case Narrative

**Client:** Sage Environmental **Report:** 214092208

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

**VOLATILES MASS SPECTROMETRY**

In the EPA 8260B analysis, samples 21409220802 (MW-12 AT 60), 21409220803 (MW-21 AT 60), 21409220804 (MW-22 AT 60), 21409220805 (MW-23 AT 60), and 21409220806 (MW-24 AT 30) had to be diluted to bracket the concentration of target compounds within the calibration range of the instrument and/or to eliminate interference from non-target background. The dilution is reflected in elevated reporting limits.

# Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

**Common Abbreviations Utilized in this Report**

| | |
|---|---|
| **ND** | Indicates the result was Not Detected at the specified RDL |
| **DO** | Indicates the result was Diluted Out |
| **MI** | Indicates the result was subject to Matrix Interference |
| **TNTC** | Indicates the result was Too Numerous To Count |
| **SUBC** | Indicates the analysis was Sub-Contracted |
| **FLD** | Indicates the analysis was performed in the Field |
| **PQL** | Practical Quantitation Limit |
| **MDL** | Method Detection Limit |
| **RDL** | Reporting Detection Limit |
| **00:00** | Reported as a time equivalent to 12:00 AM |

**Reporting Flags Utilized in this Report**

| | |
|---|---|
| **J** | Indicates the result is between the MDL and RDL |
| **U** | Indicates the compound was analyzed for but not detected |
| **B** | Indicates the analyte was detected in the associated Method Blank |

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

_____

Authorized Signature
**GCAL REPORT** 214092208

# Report Sample Summary

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409220801 | MW-7 AT 30 | Water | 09/17/2014 15:45 | 09/20/2014 09:30 |
| 21409220802 | MW-12 AT 60 | Water | 09/17/2014 13:50 | 09/20/2014 09:30 |
| 21409220803 | MW-21 AT 60 | Water | 09/17/2014 12:11 | 09/20/2014 09:30 |
| 21409220804 | MW-22 AT 60 | Water | 09/17/2014 11:11 | 09/20/2014 09:30 |
| 21409220805 | MW-23 AT 60 | Water | 09/17/2014 09:55 | 09/20/2014 09:30 |
| 21409220806 | MW-24 AT 30 | Water | 09/17/2014 14:50 | 09/20/2014 09:30 |

# Summary of Compounds Detected

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409220801 | **MW-7 AT 30** | Water | 09/17/2014 15:45 | 09/20/2014 09:30 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 38.2 | 5.00 | | ug/L |
| 79-01-6 | Trichloroethene | 9.17 | 5.00 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 7.59 | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409220802 | **MW-12 AT 60** | Water | 09/17/2014 13:50 | 09/20/2014 09:30 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 22.2 | 10.0 | | ug/L |
| 79-01-6 | Trichloroethene | 13.4 | 5.00 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 22.2 | 5.00 | | ug/L |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 748 | 25.0 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409220803 | **MW-21 AT 60** | Water | 09/17/2014 12:11 | 09/20/2014 09:30 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 79-01-6 | Trichloroethene | 738 | 250 | | ug/L |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 38900 | 2500 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409220804 | **MW-22 AT 60** | Water | 09/17/2014 11:11 | 09/20/2014 09:30 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 95-50-1 | 1,2-Dichlorobenzene | 5.38 | 5.00 | | ug/L |

# Summary of Compounds Detected (con't)

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409220804 | **MW-22 AT 60** | Water | 09/17/2014 11:11 | 09/20/2014 09:30 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 579 | 100 | | ug/L |
| 127-18-4 | Tetrachloroethene | 1760 | 50.0 | | ug/L |
| 79-01-6 | Trichloroethene | 263 | 50.0 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 576 | 50.0 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409220805 | **MW-23 AT 60** | Water | 09/17/2014 09:55 | 09/20/2014 09:30 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 95-50-1 | 1,2-Dichlorobenzene | 26.1 | 25.0 | | ug/L |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 2730 | 1000 | | ug/L |
| 127-18-4 | Tetrachloroethene | 2520 | 500 | | ug/L |
| 79-01-6 | Trichloroethene | 541 | 500 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 2730 | 500 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409220806 | **MW-24 AT 30** | Water | 09/17/2014 14:50 | 09/20/2014 09:30 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 67-66-3 | Chloroform | 7.07 | 5.00 | | ug/L |
| 79-01-6 | Trichloroethene | 139 | 5.00 | | ug/L |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 578 | 250 | | ug/L |
| 127-18-4 | Tetrachloroethene | 547 | 125 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 578 | 125 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409220801 | **MW-7 AT 30** | Water | 09/17/2014 15:45 | 09/20/2014 09:30 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 09/22/2014 16:46 | CEK | 541511 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.00 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.00 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.00 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.00 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.00 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.00 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.00 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.00 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.00 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.00 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.00 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.00 | | ug/L |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 10.0 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.00 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.00 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.00 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.00 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.00 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.00 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 5.00 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 5.00 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 5.00 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 5.00 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 5.00 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | | ug/L |
| 67-64-1 | Acetone | ND | 5.00 | | ug/L |
| 71-43-2 | Benzene | ND | 5.00 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 5.00 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 5.00 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 5.00 | | ug/L |
| 75-25-2 | Bromoform | ND | 5.00 | | ug/L |
| 74-83-9 | Bromomethane | ND | 5.00 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 5.00 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 5.00 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 5.00 | | ug/L |
| 75-00-3 | Chloroethane | ND | 5.00 | | ug/L |
| 67-66-3 | Chloroform | ND | 5.00 | | ug/L |
| 74-87-3 | Chloromethane | ND | 5.00 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 5.00 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 5.00 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.00 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 5.00 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 5.00 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 5.00 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 5.00 | | ug/L |
| 91-20-3 | Naphthalene | ND | 5.00 | | ug/L |
| 100-42-5 | Styrene | ND | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409220801 | **MW-7 AT 30** | Water | 09/17/2014 15:45 | 09/20/2014 09:30 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 09/22/2014 16:46 | CEK | 541511 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **38.2** | **5.00** | | **ug/L** |
| 108-88-3 | Toluene | ND | 5.00 | | ug/L |
| **79-01-6** | **Trichloroethene** | **9.17** | **5.00** | | **ug/L** |
| 75-69-4 | Trichlorofluoromethane | ND | 5.00 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.00 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 5.00 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 15.0 | | ug/L |
| **156-59-2** | **cis-1,2-Dichloroethene** | **7.59** | **5.00** | | **ug/L** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 10.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 5.00 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | | ug/L |
| 95-47-6 | o-Xylene | ND | 5.00 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 5.00 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 5.00 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 5.00 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.00 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 50 | 48.7 | ug/L | 97 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 50 | 51.7 | ug/L | 103 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 50 | 55.6 | ug/L | 111 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50 | 48.4 | ug/L | 97 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409220802 | **MW-12 AT 60** | Water | 09/17/2014 13:50 | 09/20/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 5 | 09/22/2014 17:07 | CEK | 541511 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **748** | **25.0** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 250 | 247 | ug/L | 99 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 250 | 259 | ug/L | 104 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 250 | 280 | ug/L | 112 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 250 | 242 | ug/L | 97 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 09/22/2014 17:49 | CEK | 541511 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.00 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.00 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.00 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.00 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.00 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.00 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.00 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.00 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.00 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.00 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.00 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.00 | | ug/L |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **22.2** | **10.0** | | **ug/L** |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.00 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.00 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.00 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.00 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.00 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.00 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 5.00 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 5.00 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 5.00 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 5.00 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 5.00 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | | ug/L |
| 67-64-1 | Acetone | ND | 5.00 | | ug/L |
| 71-43-2 | Benzene | ND | 5.00 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 5.00 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 5.00 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 5.00 | | ug/L |
| 75-25-2 | Bromoform | ND | 5.00 | | ug/L |
| 74-83-9 | Bromomethane | ND | 5.00 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409220802 | **MW-12 AT 60** | Water | 09/17/2014 13:50 | 09/20/2014 09:30 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 09/22/2014 17:49 | CEK | 541511 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | ND | 5.00 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 5.00 | | ug/L |
| 75-00-3 | Chloroethane | ND | 5.00 | | ug/L |
| 67-66-3 | Chloroform | ND | 5.00 | | ug/L |
| 74-87-3 | Chloromethane | ND | 5.00 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 5.00 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 5.00 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.00 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 5.00 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 5.00 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 5.00 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 5.00 | | ug/L |
| 91-20-3 | Naphthalene | ND | 5.00 | | ug/L |
| 100-42-5 | Styrene | ND | 5.00 | | ug/L |
| 108-88-3 | Toluene | ND | 5.00 | | ug/L |
| **79-01-6** | **Trichloroethene** | **13.4** | **5.00** | | **ug/L** |
| 75-69-4 | Trichlorofluoromethane | ND | 5.00 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.00 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 5.00 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 15.0 | | ug/L |
| **156-59-2** | **cis-1,2-Dichloroethene** | **22.2** | **5.00** | | **ug/L** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 10.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 5.00 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | | ug/L |
| 95-47-6 | o-Xylene | ND | 5.00 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 5.00 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 5.00 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 5.00 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.00 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 50 | 48.4 | ug/L | 97 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 50 | 51.3 | ug/L | 103 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 50 | 53.1 | ug/L | 106 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50 | 48.4 | ug/L | 97 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409220803 | **MW-21 AT 60** | Water | 09/17/2014 12:11 | 09/20/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 500 | 09/22/2014 17:28 | CEK | 541511 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **38900** | **2500** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 25000 | 24100 | ug/L | 96 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 25000 | 26000 | ug/L | 104 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 25000 | 26900 | ug/L | 108 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 25000 | 24900 | ug/L | 100 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 09/22/2014 18:10 | CEK | 541511 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 250 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 250 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 250 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 250 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 250 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 250 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 250 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 250 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 250 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 250 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 250 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 250 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 250 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 250 | | ug/L |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 500 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 250 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 250 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 250 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 250 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 250 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 250 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 250 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 250 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 250 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 250 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 250 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 250 | | ug/L |
| 67-64-1 | Acetone | ND | 250 | | ug/L |
| 71-43-2 | Benzene | ND | 250 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 250 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 250 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 250 | | ug/L |
| 75-25-2 | Bromoform | ND | 250 | | ug/L |
| 74-83-9 | Bromomethane | ND | 250 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 250 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409220803 | **MW-21 AT 60** | Water | 09/17/2014 12:11 | 09/20/2014 09:30 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 09/22/2014 18:10 | CEK | 541511 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | ND | 250 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 250 | | ug/L |
| 75-00-3 | Chloroethane | ND | 250 | | ug/L |
| 67-66-3 | Chloroform | ND | 250 | | ug/L |
| 74-87-3 | Chloromethane | ND | 250 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 250 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 250 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 250 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 250 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 250 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 250 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 250 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 250 | | ug/L |
| 91-20-3 | Naphthalene | ND | 250 | | ug/L |
| 100-42-5 | Styrene | ND | 250 | | ug/L |
| 108-88-3 | Toluene | ND | 250 | | ug/L |
| **79-01-6** | **Trichloroethene** | **738** | **250** | | **ug/L** |
| 75-69-4 | Trichlorofluoromethane | ND | 250 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 250 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 250 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 750 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 250 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 250 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 500 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 250 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 250 | | ug/L |
| 95-47-6 | o-Xylene | ND | 250 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 250 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 250 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 250 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 250 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 250 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 250 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 2500 | 2450 | ug/L | 98 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 2500 | 2660 | ug/L | 106 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 2500 | 2770 | ug/L | 111 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 2500 | 2500 | ug/L | 100 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409220804 | **MW-22 AT 60** | Water | 09/17/2014 11:11 | 09/20/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 10 | 09/22/2014 19:54 | CEK | 541511 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **540-59-0** | **1,2-Dichloroethene(Total)** | **579** | **100** | | **ug/L** |
| **127-18-4** | **Tetrachloroethene** | **1760** | **50.0** | | **ug/L** |
| **79-01-6** | **Trichloroethene** | **263** | **50.0** | | **ug/L** |
| **156-59-2** | **cis-1,2-Dichloroethene** | **576** | **50.0** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 500 | 470 | ug/L | 94 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 500 | 540 | ug/L | 108 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 500 | 552 | ug/L | 110 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 500 | 495 | ug/L | 99 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 09/22/2014 20:57 | CEK | 541511 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.00 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.00 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.00 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.00 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.00 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.00 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.00 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.00 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.00 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.00 | | ug/L |
| **95-50-1** | **1,2-Dichlorobenzene** | **5.38** | **5.00** | | **ug/L** |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.00 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.00 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.00 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.00 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.00 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.00 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.00 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 5.00 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 5.00 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 5.00 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 5.00 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 5.00 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | | ug/L |
| 67-64-1 | Acetone | ND | 5.00 | | ug/L |
| 71-43-2 | Benzene | ND | 5.00 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 5.00 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 5.00 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 5.00 | | ug/L |
| 75-25-2 | Bromoform | ND | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409220804 | **MW-22 AT 60** | Water | 09/17/2014 11:11 | 09/20/2014 09:30 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 09/22/2014 20:57 | CEK | 541511 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 74-83-9 | Bromomethane | ND | 5.00 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 5.00 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 5.00 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 5.00 | | ug/L |
| 75-00-3 | Chloroethane | ND | 5.00 | | ug/L |
| 67-66-3 | Chloroform | ND | 5.00 | | ug/L |
| 74-87-3 | Chloromethane | ND | 5.00 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 5.00 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 5.00 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.00 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 5.00 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 5.00 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 5.00 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 5.00 | | ug/L |
| 91-20-3 | Naphthalene | ND | 5.00 | | ug/L |
| 100-42-5 | Styrene | ND | 5.00 | | ug/L |
| 108-88-3 | Toluene | ND | 5.00 | | ug/L |
| 75-69-4 | Trichlorofluoromethane | ND | 5.00 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.00 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 5.00 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 15.0 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 10.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 5.00 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | | ug/L |
| 95-47-6 | o-Xylene | ND | 5.00 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 5.00 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 5.00 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 5.00 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.00 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 50 | 47.9 | ug/L | 96 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 50 | 50.6 | ug/L | 101 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 50 | 52.8 | ug/L | 106 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50 | 49.3 | ug/L | 99 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409220805 | **MW-23 AT 60** | Water | 09/17/2014 09:55 | 09/20/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 100 | 09/22/2014 19:12 | CEK | 541511 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **540-59-0** | **1,2-Dichloroethene(Total)** | **2730** | **1000** | | **ug/L** |
| **127-18-4** | **Tetrachloroethene** | **2520** | **500** | | **ug/L** |
| **79-01-6** | **Trichloroethene** | **541** | **500** | | **ug/L** |
| **156-59-2** | **cis-1,2-Dichloroethene** | **2730** | **500** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 5000 | 4790 | ug/L | 96 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 5000 | 5400 | ug/L | 108 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 5000 | 5590 | ug/L | 112 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 5000 | 4870 | ug/L | 97 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 5 | 09/22/2014 22:02 | CEK | 541511 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 25.0 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 25.0 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 25.0 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 25.0 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 25.0 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 25.0 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 25.0 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 25.0 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 25.0 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 25.0 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 25.0 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 25.0 | | ug/L |
| **95-50-1** | **1,2-Dichlorobenzene** | **26.1** | **25.0** | | **ug/L** |
| 107-06-2 | 1,2-Dichloroethane | ND | 25.0 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 25.0 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 25.0 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 25.0 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 25.0 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 25.0 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 25.0 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 25.0 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 25.0 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 25.0 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 25.0 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 25.0 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 25.0 | | ug/L |
| 67-64-1 | Acetone | ND | 25.0 | | ug/L |
| 71-43-2 | Benzene | ND | 25.0 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 25.0 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 25.0 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 25.0 | | ug/L |
| 75-25-2 | Bromoform | ND | 25.0 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409220805 | **MW-23 AT 60** | Water | 09/17/2014 09:55 | 09/20/2014 09:30 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 5 | 09/22/2014 22:02 | CEK | 541511 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 74-83-9 | Bromomethane | ND | 25.0 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 25.0 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 25.0 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 25.0 | | ug/L |
| 75-00-3 | Chloroethane | ND | 25.0 | | ug/L |
| 67-66-3 | Chloroform | ND | 25.0 | | ug/L |
| 74-87-3 | Chloromethane | ND | 25.0 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 25.0 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 25.0 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 25.0 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 25.0 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 25.0 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 25.0 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 25.0 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 25.0 | | ug/L |
| 91-20-3 | Naphthalene | ND | 25.0 | | ug/L |
| 100-42-5 | Styrene | ND | 25.0 | | ug/L |
| 108-88-3 | Toluene | ND | 25.0 | | ug/L |
| 75-69-4 | Trichlorofluoromethane | ND | 25.0 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 25.0 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 25.0 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 75.0 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 25.0 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 50.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 25.0 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 25.0 | | ug/L |
| 95-47-6 | o-Xylene | ND | 25.0 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 25.0 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 25.0 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 25.0 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 25.0 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 25.0 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 25.0 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 250 | 234 | ug/L | 94 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 250 | 262 | ug/L | 105 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 250 | 279 | ug/L | 112 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 250 | 248 | ug/L | 99 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409220806 | **MW-24 AT 30** | Water | 09/17/2014 14:50 | 09/20/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 25 | 09/22/2014 19:33 | CEK | 541511 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **540-59-0** | **1,2-Dichloroethene(Total)** | **578** | **250** | | **ug/L** |
| **127-18-4** | **Tetrachloroethene** | **547** | **125** | | **ug/L** |
| **156-59-2** | **cis-1,2-Dichloroethene** | **578** | **125** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 1250 | 1210 | ug/L | 97 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 1250 | 1260 | ug/L | 101 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 1250 | 1420 | ug/L | 114 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 1250 | 1240 | ug/L | 99 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 09/22/2014 20:36 | CEK | 541511 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.00 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.00 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.00 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.00 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.00 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.00 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.00 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.00 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.00 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.00 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.00 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.00 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.00 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.00 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.00 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.00 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.00 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.00 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 5.00 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 5.00 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 5.00 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 5.00 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 5.00 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | | ug/L |
| 67-64-1 | Acetone | ND | 5.00 | | ug/L |
| 71-43-2 | Benzene | ND | 5.00 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 5.00 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 5.00 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 5.00 | | ug/L |
| 75-25-2 | Bromoform | ND | 5.00 | | ug/L |
| 74-83-9 | Bromomethane | ND | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409220806 | **MW-24 AT 30** | Water | 09/17/2014 14:50 | 09/20/2014 09:30 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 09/22/2014 20:36 | CEK | 541511 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 75-15-0 | Carbon disulfide | ND | 5.00 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 5.00 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 5.00 | | ug/L |
| 75-00-3 | Chloroethane | ND | 5.00 | | ug/L |
| **67-66-3** | **Chloroform** | **7.07** | **5.00** | | **ug/L** |
| 74-87-3 | Chloromethane | ND | 5.00 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 5.00 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 5.00 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.00 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 5.00 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 5.00 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 5.00 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 5.00 | | ug/L |
| 91-20-3 | Naphthalene | ND | 5.00 | | ug/L |
| 100-42-5 | Styrene | ND | 5.00 | | ug/L |
| 108-88-3 | Toluene | ND | 5.00 | | ug/L |
| **79-01-6** | **Trichloroethene** | **139** | **5.00** | | **ug/L** |
| 75-69-4 | Trichlorofluoromethane | ND | 5.00 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.00 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 5.00 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 15.0 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 10.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 5.00 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | | ug/L |
| 95-47-6 | o-Xylene | ND | 5.00 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 5.00 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 5.00 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 5.00 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.00 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 50 | 48.3 | ug/L | 97 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 50 | 52 | ug/L | 104 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 50 | 54.1 | ug/L | 108 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50 | 48.8 | ug/L | 98 | 71 - 127 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 541511 | **Client ID** | MB541511 | | | LCS541511 | | | LCSD541511 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1362079 | | | 1362080 | | | 1362081 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 09/22/2014 13:55 | | | 09/22/2014 12:10 | | | 09/22/2014 12:31 | | |
| | | **Matrix** | Water | | | Water | | | Water | | |
| **EPA 8260B** | | **Units** | **Result** | ug/L **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 67-64-1 | Acetone | | ND | 5.00 | 50.0 | 42.9 | 86 | 44 - 156 | 40.7 | 81 | 5 | 30 |
| 74-97-5 | Bromochloromethane | | ND | 5.00 | 50.0 | 55.6 | 111 | 76 - 130 | 55.9 | 112 | 1 | 30 |
| 75-27-4 | Bromodichloromethane | | ND | 5.00 | 50.0 | 52.2 | 104 | 74 - 125 | 49.0 | 98 | 6 | 30 |
| 75-25-2 | Bromoform | | ND | 5.00 | 50.0 | 55.6 | 111 | 64 - 122 | 58.6 | 117 | 5 | 30 |
| 74-83-9 | Bromomethane | | ND | 5.00 | 50.0 | 45.5 | 91 | 47 - 138 | 45.4 | 91 | 0 | 30 |
| 75-15-0 | Carbon disulfide | | ND | 5.00 | 50.0 | 50.4 | 101 | 69 - 136 | 47.1 | 94 | 7 | 30 |
| 56-23-5 | Carbon tetrachloride | | ND | 5.00 | 50.0 | 56.7 | 113 | 76 - 128 | 57.8 | 116 | 2 | 30 |
| 75-00-3 | Chloroethane | | ND | 5.00 | 50.0 | 45.8 | 92 | 62 - 141 | 43.7 | 87 | 5 | 30 |
| 136777-61-2 | m,p-Xylene | | ND | 10.0 | 100 | 101 | 101 | 74 - 126 | 104 | 104 | 3 | 30 |
| 67-66-3 | Chloroform | | ND | 5.00 | 50.0 | 52.5 | 105 | 75 - 122 | 54.1 | 108 | 3 | 30 |
| 74-87-3 | Chloromethane | | ND | 5.00 | 50.0 | 46.9 | 94 | 59 - 132 | 45.7 | 91 | 3 | 30 |
| 124-48-1 | Dibromochloromethane | | ND | 5.00 | 50.0 | 54.0 | 108 | 71 - 123 | 56.3 | 113 | 4 | 30 |
| 74-95-3 | Dibromomethane | | ND | 5.00 | 50.0 | 50.1 | 100 | 72 - 129 | 48.3 | 97 | 4 | 30 |
| 75-71-8 | Dichlorodifluoromethane | | ND | 5.00 | 50.0 | 53.8 | 108 | 58 - 140 | 54.5 | 109 | 1 | 30 |
| 75-34-3 | 1,1-Dichloroethane | | ND | 5.00 | 50.0 | 48.5 | 97 | 74 - 127 | 48.8 | 98 | 1 | 30 |
| 107-06-2 | 1,2-Dichloroethane | | ND | 5.00 | 50.0 | 50.2 | 100 | 71 - 129 | 52.1 | 104 | 4 | 30 |
| 156-59-2 | cis-1,2-Dichloroethene | | ND | 5.00 | 50.0 | 47.0 | 94 | 73 - 130 | 51.5 | 103 | 9 | 30 |
| 156-60-5 | trans-1,2-Dichloroethene | | ND | 5.00 | 50.0 | 49.3 | 99 | 69 - 132 | 41.0 | 82 | 18 | 30 |
| 75-09-2 | Methylene chloride | | ND | 5.00 | 50.0 | 50.3 | 101 | 68 - 132 | 42.9 | 86 | 16 | 30 |
| 78-87-5 | 1,2-Dichloropropane | | ND | 5.00 | 50.0 | 50.0 | 100 | 72 - 128 | 48.1 | 96 | 4 | 30 |
| 10061-01-5 | cis-1,3-Dichloropropene | | ND | 5.00 | 50.0 | 48.8 | 98 | 71 - 132 | 46.1 | 92 | 6 | 30 |
| 10061-02-6 | trans-1,3-Dichloropropene | | ND | 5.00 | 50.0 | 47.6 | 95 | 71 - 131 | 45.9 | 92 | 4 | 30 |
| 100-41-4 | Ethylbenzene | | ND | 5.00 | 50.0 | 54.6 | 109 | 74 - 126 | 56.2 | 112 | 3 | 30 |
| 591-78-6 | 2-Hexanone | | ND | 5.00 | 50.0 | 45.9 | 92 | 50 - 135 | 50.3 | 101 | 9 | 30 |
| 98-82-8 | Isopropylbenzene (Cumene) | | ND | 5.00 | 50.0 | 49.4 | 99 | 71 - 125 | 50.2 | 100 | 2 | 30 |
| 78-93-3 | 2-Butanone | | ND | 5.00 | 50.0 | 45.9 | 92 | 58 - 137 | 54.7 | 109 | 17 | 30 |
| 74-88-4 | Methyl iodide | | ND | 5.00 | 50.0 | 48.2 | 96 | 57 - 141 | 50.0 | 100 | 4 | 30 |
| 108-10-1 | 4-Methyl-2-pentanone | | ND | 5.00 | 50.0 | 45.6 | 91 | 57 - 132 | 51.1 | 102 | 11 | 30 |
| 103-65-1 | n-Propylbenzene | | ND | 5.00 | 50.0 | 51.5 | 103 | 75 - 129 | 51.8 | 104 | 1 | 30 |
| 100-42-5 | Styrene | | ND | 5.00 | 50.0 | 49.9 | 100 | 71 - 127 | 51.6 | 103 | 3 | 30 |
| 127-18-4 | Tetrachloroethene | | ND | 5.00 | 50.0 | 56.1 | 112 | 68 - 128 | 55.7 | 111 | 1 | 30 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | | ND | 5.00 | 50.0 | 54.3 | 109 | 75 - 124 | 56.4 | 113 | 4 | 30 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | ND | 5.00 | 50.0 | 45.0 | 90 | 70 - 122 | 48.6 | 97 | 8 | 30 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 541511 | **Client ID** | MB541511 | | | LCS541511 | | | LCSD541511 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1362079 | | | 1362080 | | | 1362081 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 09/22/2014 13:55 | | | 09/22/2014 12:10 | | | 09/22/2014 12:31 | | |
| | | **Matrix** | Water | | | Water | | | Water | | |
| **EPA 8260B** | | **Units** | **Result** | ug/L **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 120-82-1 | 1,2,4-Trichlorobenzene | | ND | 5.00 | 50.0 | 52.7 | 105 | 61 - 135 | 56.3 | 113 | 7 | 30 |
| 71-55-6 | 1,1,1-Trichloroethane | | ND | 5.00 | 50.0 | 53.0 | 106 | 76 - 126 | 55.4 | 111 | 4 | 30 |
| 79-00-5 | 1,1,2-Trichloroethane | | ND | 5.00 | 50.0 | 51.2 | 102 | 72 - 121 | 52.8 | 106 | 3 | 30 |
| 75-69-4 | Trichlorofluoromethane | | ND | 5.00 | 50.0 | 51.9 | 104 | 72 - 136 | 49.4 | 99 | 5 | 30 |
| 96-18-4 | 1,2,3-Trichloropropane | | ND | 5.00 | 50.0 | 46.8 | 94 | 70 - 120 | 48.6 | 97 | 4 | 30 |
| 95-63-6 | 1,2,4-Trimethylbenzene | | ND | 5.00 | 50.0 | 53.2 | 106 | 74 - 125 | 54.4 | 109 | 2 | 30 |
| 108-67-8 | 1,3,5-Trimethylbenzene | | ND | 5.00 | 50.0 | 52.8 | 106 | 71 - 132 | 54.1 | 108 | 2 | 30 |
| 75-01-4 | Vinyl chloride | | ND | 5.00 | 50.0 | 48.2 | 96 | 68 - 132 | 47.0 | 94 | 3 | 30 |
| 95-47-6 | o-Xylene | | ND | 5.00 | 50.0 | 48.6 | 97 | 73 - 130 | 49.3 | 99 | 1 | 30 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | ND | 5.00 | 50.0 | 50.2 | 100 | 57 - 121 | 57.7 | 115 | 14 | 30 |
| 106-93-4 | 1,2-Dibromoethane | | ND | 5.00 | 50.0 | 52.7 | 105 | 70 - 124 | 52.9 | 106 | 0 | 30 |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | | ND | 5.00 | 50.0 | 52.2 | 104 | 71 - 125 | 44.1 | 88 | 17 | 30 |
| 540-59-0 | 1,2-Dichloroethene(Total) | | ND | 10.0 | 100 | 96.2 | 96 | 74 - 128 | 92.5 | 93 | 4 | 30 |
| 99-87-6 | 4-Isopropyltoluene | | ND | 5.00 | 50.0 | 55.7 | 111 | 71 - 129 | 56.2 | 112 | 1 | 30 |
| 1330-20-7 | Xylene (total) | | ND | 15.0 | 150 | 149 | 99 | 74 - 127 | 153 | 102 | 3 | 30 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | | ND | 5.00 | 50.0 | 45.6 | 91 | 56 - 132 | 50.1 | 100 | 9 | 30 |
| 594-20-7 | 2,2-Dichloropropane | | ND | 5.00 | 50.0 | 54.5 | 109 | 77 - 124 | 56.4 | 113 | 3 | 30 |
| 76-13-1 | Trichlorotrifluoroethane | | ND | 5.00 | 50.0 | 54.3 | 109 | 72 - 136 | 51.1 | 102 | 6 | 30 |
| 563-58-6 | 1,1-Dichloropropene | | ND | 5.00 | 50.0 | 53.7 | 107 | 72 - 131 | 56.4 | 113 | 5 | 30 |
| 142-28-9 | 1,3-Dichloropropane | | ND | 5.00 | 50.0 | 50.4 | 101 | 74 - 122 | 52.0 | 104 | 3 | 30 |
| 108-86-1 | Bromobenzene | | ND | 5.00 | 50.0 | 47.2 | 94 | 71 - 120 | 48.4 | 97 | 3 | 30 |
| 95-49-8 | 2-Chlorotoluene | | ND | 5.00 | 50.0 | 48.4 | 97 | 72 - 127 | 49.7 | 99 | 3 | 30 |
| 106-43-4 | 4-Chlorotoluene | | ND | 5.00 | 50.0 | 49.3 | 99 | 75 - 126 | 49.4 | 99 | 0 | 30 |
| 98-06-6 | tert-Butylbenzene | | ND | 5.00 | 50.0 | 51.3 | 103 | 72 - 126 | 52.8 | 106 | 3 | 30 |
| 135-98-8 | sec-Butylbenzene | | ND | 5.00 | 50.0 | 53.5 | 107 | 70 - 136 | 55.2 | 110 | 3 | 30 |
| 541-73-1 | 1,3-Dichlorobenzene | | ND | 5.00 | 50.0 | 52.0 | 104 | 74 - 126 | 53.4 | 107 | 3 | 30 |
| 106-46-7 | 1,4-Dichlorobenzene | | ND | 5.00 | 50.0 | 49.7 | 99 | 72 - 122 | 50.9 | 102 | 2 | 30 |
| 104-51-8 | n-Butylbenzene | | ND | 5.00 | 50.0 | 52.2 | 104 | 69 - 134 | 53.0 | 106 | 2 | 30 |
| 95-50-1 | 1,2-Dichlorobenzene | | ND | 5.00 | 50.0 | 51.7 | 103 | 71 - 126 | 53.2 | 106 | 3 | 30 |
| 87-68-3 | Hexachlorobutadiene | | ND | 5.00 | 50.0 | 54.4 | 109 | 61 - 144 | 56.6 | 113 | 4 | 30 |
| 91-20-3 | Naphthalene | | ND | 5.00 | 50.0 | 46.2 | 92 | 57 - 138 | 51.3 | 103 | 10 | 35 |
| 75-35-4 | 1,1-Dichloroethene | | ND | 5.00 | 50.0 | 50.6 | 101 | 69 - 129 | 48.3 | 97 | 5 | 20 |
| 71-43-2 | Benzene | | ND | 5.00 | 50.0 | 50.6 | 101 | 70 - 129 | 54.4 | 109 | 7 | 20 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 541511 | **Client ID** | MB541511 | | | LCS541511 | | | LCSD541511 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1362079 | | | 1362080 | | | 1362081 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 09/22/2014 13:55 | | | 09/22/2014 12:10 | | | 09/22/2014 12:31 | | |
| | | **Matrix** | Water | | | Water | | | Water | | |
| **EPA 8260B** | | **Units** | ug/L | | **Spike** | **Result** | | **Control** | **Result** | | **RPD** |
| | | **Result** | **RDL** | | **Added** | | **% R** | **Limits % R** | | **% R** | **RPD** | **Limit** |
| 79-01-6 | Trichloroethene | ND | 5.00 | | 50.0 | 55.6 | 111 | 76 - 129 | 55.0 | 110 | 1 | 20 |
| 108-88-3 | Toluene | ND | 5.00 | | 50.0 | 50.1 | 100 | 72 - 120 | 51.0 | 102 | 2 | 20 |
| 108-90-7 | Chlorobenzene | ND | 5.00 | | 50.0 | 53.1 | 106 | 74 - 123 | 54.0 | 108 | 2 | 20 |
| **Surrogate** | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 49 | 98 | | 50 | 53.4 | 107 | 78 - 130 | 53.5 | 107 | | |
| 1868-53-7 | Dibromofluoromethane | 50.8 | 102 | | 50 | 53.2 | 106 | 77 - 127 | 53.3 | 107 | | |
| 2037-26-5 | Toluene d8 | 56.2 | 112 | | 50 | 49.5 | 99 | 76 - 134 | 49 | 98 | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 49.5 | 99 | | 50 | 49.6 | 99 | 71 - 127 | 49.2 | 98 | | |

# GCAL ANALYTICAL LABORATORIES, LLC

# CHAIN OF CUSTODY RECORD

7979 Innovation Park Dr., Baton Rouge, LA 70820-7402
Phone: 225.769.4900 • Fax: 225.767.5717 • www.gcal.com

**Client ID:** 4642 - Sage Environmental
**SDG:** 214092208
**Due Date:** 09/24/14

**Report to:**
Client: Sage Consulting
Address: 600 Chastain Rd, Ste 320, Kennesaw, GA
Contact: Jack Wintle
Phone: 678-431-0130
E-mail: jack.wintle@sageenvironmental.com

**Bill to:**
Client: Same
Address:
Contact:
Phone:
E-mail:

P.O. Number
Project Name/Number
Sampled By:

Analytical Requests & Method: VOCs - 8260B

GCAL use only:
Custody Seal 240745 used ☐ yes ☐ no intact ☐ yes ☐ no line1
Temperature °C 2.1 E22

☐ Dissolved Analysis Requested
☐ Field filtered
☐ Lab filtered

| Matrix[1] | Date | Time (2400) | Comp | Grab | Sample Description | No Containers | HCl | Preservative |
|---|---|---|---|---|---|---|---|---|
| W | 9/17 | 15:45 | | ✓ | MW-7 @ 30' | 3 | ✓ | 1 |
| W | | 13:50 | | ✓ | MW-12 @ 60' | 3 | ✓ | 2 |
| | | 12:11 | | ✓ | MW-21 @ 60' | 3 | ✓ | 3 |
| | | 11:11 | | ✓ | MW-22 @ 60' | 3 | ✓ | 4 |
| | | 09:55 | | ✓ | MW-23 @ 60' | 3 | ✓ | 5 |
| | | 14:50 | | ✓ | MW-24 @ 30' | 3 | ✓ | 6 |

DAW

Air Bill No: 7712 1685 0919

Turn Around Time (Business Days): ☐ 24h* ☐ 48h* ☐ 3 days* ☐ 1 week* ☐ Standard (Per Contract/Quote)

| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Date: | Time: |
|---|---|---|---|---|---|
| Jack Wintle | 9/19/14 | 8:45 | Brad Luchman | 9/19/14 | 0845 |
| Hugo Alvez | 9/19/14 | | | | |
| FedEx | 9/20/14 | 930 | Maucier | 9/20/14 | 930 |

Note:

By submitting these samples, you agree to GCAL's terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = solid, L = liquid, T = tissue

*Requires prior approval, rush charges may apply.

We cannot accept verbal changes. Please email written changes to your PM.

WHITE: CLIENT FINAL REPORT - CANARY: CLIENT

GCAL ANALYTICAL LABORATORIES, LLC

# SAMPLE RECEIVING CHECKLIST

*214092208*

## SAMPLE DELIVERY GROUP 214092208

| | |
|---|---|
| **Client**<br>4642 - Sage Environmental | **Transport Method**<br>FEDEX |
| **Profile Number**<br>240745 | **Received By**<br>Saucier, Charlotte M. |
| **Line Item(s)**<br>1 - VOC | **Receive Date(s)**<br>09/20/14 |

| CHECKLIST | YES | NO | NA |
|---|---|---|---|
| Were all samples received using proper thermal preservation? | ☑ | ☐ | ☐ |
| When used, were all custody seals intact? | ☑ | ☐ | ☐ |
| Were all samples received in proper containers? | ☑ | ☐ | ☐ |
| Were all samples received using proper chemical preservation? | ☑ | ☐ | ☐ |
| Was preservative added to any container at the lab? | ☐ | ☑ | ☐ |
| Were all containers received in good condition? | ☑ | ☐ | ☐ |
| Were all VOA vials received with no head space? | ☑ | ☐ | ☐ |
| Do all sample labels match the Chain of Custody? | ☑ | ☐ | ☐ |
| Did the Chain of Custody list the sampling technician? SH | ~~☑~~ | ☑ | ☐ |
| Was the COC maintained i.e. all signatures, dates and time of receipt included? | ☐ | ☑ | ☐ |

## COOLERS

| Airbill | Thermometer ID: E22 | Temp(°C) |
|---|---|---|
| 7712 1685 0919 | | 2.1 |

## DISCREPANCIES

None

## LAB PRESERVATIONS

None

## NOTES

*NELAP CERTIFICATE NUMBER 01955*
*DOD ELAP CERTIFICATE NUMBER L13-190*

# ANALYTICAL RESULTS

**PERFORMED BY**


**GCAL, LLC**

**7979 Innovation Park Dr.**

**Baton Rouge, LA 70820**


**Report Date** 09/26/2014

**GCAL Report** 214092210

| | |
|---|---|
| ***Deliver To*** | Sage Environmental Services<br>600 Chastain Rd.<br>Kennesaw, GA 30144<br>678-431-0130 |
| ***Attn*** | Jack Wintle |

***Project*** Rayloc GW Sampling

# Case Narrative

**Client:** Sage Environmental **Report:** 214092210

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

## VOLATILES MASS SPECTROMETRY

In the EPA 8260B analysis, samples 21409221001 (MW-17 AT 25), 21409221004 (PT-3 AT 60), and 21409221005 (MW-20 AT 60) had to be diluted due to the presence of non-target background and/or to bracket the concentration of target compounds within the calibration range of the instrument. The dilution is reflected in elevated reporting limits.

## MISCELLANEOUS

Sample 21409221006 (TRIP BLANK) was received but was not listed on the chain of custody. The client was contacted and authorized proceeding with analysis. This sample has been added to the COC by the Project Manager.

# Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

**Common Abbreviations Utilized in this Report**

| | |
|---|---|
| **ND** | Indicates the result was Not Detected at the specified RDL |
| **DO** | Indicates the result was Diluted Out |
| **MI** | Indicates the result was subject to Matrix Interference |
| **TNTC** | Indicates the result was Too Numerous To Count |
| **SUBC** | Indicates the analysis was Sub-Contracted |
| **FLD** | Indicates the analysis was performed in the Field |
| **PQL** | Practical Quantitation Limit |
| **MDL** | Method Detection Limit |
| **RDL** | Reporting Detection Limit |
| **00:00** | Reported as a time equivalent to 12:00 AM |

**Reporting Flags Utilized in this Report**

| | |
|---|---|
| **J** | Indicates the result is between the MDL and RDL |
| **U** | Indicates the compound was analyzed for but not detected |
| **B** | Indicates the analyte was detected in the associated Method Blank |

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

_____

Authorized Signature
**GCAL REPORT** 214092210

# Report Sample Summary

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409221001 | MW-17 AT 25 | Water | 09/18/2014 09:35 | 09/20/2014 09:30 |
| 21409221002 | MW-19 AT 30 | Water | 09/18/2014 10:28 | 09/20/2014 09:30 |
| 21409221003 | MW-15 AT 30 | Water | 09/18/2014 11:28 | 09/20/2014 09:30 |
| 21409221004 | PT-3 AT 60 | Water | 09/18/2014 13:20 | 09/20/2014 09:30 |
| 21409221005 | MW-20 AT 60 | Water | 09/18/2014 14:06 | 09/20/2014 09:30 |
| 21409221006 | TRIP BLANK | Water | 09/18/2014 00:00 | 09/20/2014 09:30 |

# Summary of Compounds Detected

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409221001 | **MW-17 AT 25** | Water | 09/18/2014 09:35 | 09/20/2014 09:30 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 75-01-4 | Vinyl chloride | 5.77 | 5.00 | | ug/L |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 382 | 50.0 | | ug/L |
| 127-18-4 | Tetrachloroethene | 734 | 25.0 | | ug/L |
| 79-01-6 | Trichloroethene | 180 | 25.0 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 382 | 25.0 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409221002 | **MW-19 AT 30** | Water | 09/18/2014 10:28 | 09/20/2014 09:30 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 66.3 | 10.0 | | ug/L |
| 127-18-4 | Tetrachloroethene | 9.69 | 5.00 | | ug/L |
| 75-01-4 | Vinyl chloride | 15.9 | 5.00 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 66.1 | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409221003 | **MW-15 AT 30** | Water | 09/18/2014 11:28 | 09/20/2014 09:30 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 31.0 | 10.0 | | ug/L |
| 75-01-4 | Vinyl chloride | 98.8 | 5.00 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 31.0 | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409221004 | **PT-3 AT 60** | Water | 09/18/2014 13:20 | 09/20/2014 09:30 |

## EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 7510 | 500 | | ug/L |
| 67-64-1 | Acetone | 1650 | 250 | | ug/L |
| 79-01-6 | Trichloroethene | 1010 | 250 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 7460 | 250 | | ug/L |

# Summary of Compounds Detected (con't)

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409221004 | **PT-3 AT 60** | Water | 09/18/2014 13:20 | 09/20/2014 09:30 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 10200 | 5000 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409221005 | **MW-20 AT 60** | Water | 09/18/2014 14:06 | 09/20/2014 09:30 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 540-59-0 | 1,2-Dichloroethene(Total) | 107 | 10.0 | | ug/L |
| 79-01-6 | Trichloroethene | 140 | 5.00 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 104 | 5.00 | | ug/L |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1460 | 50.0 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409221006 | **TRIP BLANK** | Water | 09/18/2014 00:00 | 09/20/2014 09:30 |

EPA 8260B

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 6.10 | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409221001 | **MW-17 AT 25** | Water | 09/18/2014 09:35 | 09/20/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 5 | 09/24/2014 01:37 | ALC | 541633 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **540-59-0** | **1,2-Dichloroethene(Total)** | **382** | **50.0** | | **ug/L** |
| **127-18-4** | **Tetrachloroethene** | **734** | **25.0** | | **ug/L** |
| **79-01-6** | **Trichloroethene** | **180** | **25.0** | | **ug/L** |
| **156-59-2** | **cis-1,2-Dichloroethene** | **382** | **25.0** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 250 | 241 | ug/L | 96 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 250 | 259 | ug/L | 104 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 250 | 277 | ug/L | 111 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 250 | 248 | ug/L | 99 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 09/24/2014 02:40 | ALC | 541633 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.00 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.00 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.00 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.00 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.00 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.00 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.00 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.00 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.00 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.00 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.00 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.00 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.00 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.00 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.00 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.00 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.00 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.00 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 5.00 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 5.00 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 5.00 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 5.00 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 5.00 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | | ug/L |
| 67-64-1 | Acetone | ND | 5.00 | | ug/L |
| 71-43-2 | Benzene | ND | 5.00 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 5.00 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 5.00 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 5.00 | | ug/L |
| 75-25-2 | Bromoform | ND | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409221001 | **MW-17 AT 25** | Water | 09/18/2014 09:35 | 09/20/2014 09:30 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 09/24/2014 02:40 | ALC | 541633 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 74-83-9 | Bromomethane | ND | 5.00 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 5.00 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 5.00 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 5.00 | | ug/L |
| 75-00-3 | Chloroethane | ND | 5.00 | | ug/L |
| 67-66-3 | Chloroform | ND | 5.00 | | ug/L |
| 74-87-3 | Chloromethane | ND | 5.00 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 5.00 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 5.00 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.00 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 5.00 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 5.00 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 5.00 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 5.00 | | ug/L |
| 91-20-3 | Naphthalene | ND | 5.00 | | ug/L |
| 100-42-5 | Styrene | ND | 5.00 | | ug/L |
| 108-88-3 | Toluene | ND | 5.00 | | ug/L |
| 75-69-4 | Trichlorofluoromethane | ND | 5.00 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.00 | | ug/L |
| **75-01-4** | **Vinyl chloride** | **5.77** | **5.00** | | **ug/L** |
| 1330-20-7 | Xylene (total) | ND | 15.0 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 10.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 5.00 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | | ug/L |
| 95-47-6 | o-Xylene | ND | 5.00 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 5.00 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 5.00 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 5.00 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.00 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 50 | 47 | ug/L | 94 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 50 | 53.1 | ug/L | 106 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 50 | 54.3 | ug/L | 109 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50 | 50.1 | ug/L | 100 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409221002 | **MW-19 AT 30** | Water | 09/18/2014 10:28 | 09/20/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 09/24/2014 00:34 | ALC | 541633 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.00 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.00 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.00 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.00 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.00 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.00 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.00 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.00 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.00 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.00 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.00 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.00 | | ug/L |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **66.3** | **10.0** | | **ug/L** |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.00 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.00 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.00 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.00 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.00 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.00 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 5.00 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 5.00 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 5.00 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 5.00 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 5.00 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | | ug/L |
| 67-64-1 | Acetone | ND | 5.00 | | ug/L |
| 71-43-2 | Benzene | ND | 5.00 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 5.00 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 5.00 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 5.00 | | ug/L |
| 75-25-2 | Bromoform | ND | 5.00 | | ug/L |
| 74-83-9 | Bromomethane | ND | 5.00 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 5.00 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 5.00 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 5.00 | | ug/L |
| 75-00-3 | Chloroethane | ND | 5.00 | | ug/L |
| 67-66-3 | Chloroform | ND | 5.00 | | ug/L |
| 74-87-3 | Chloromethane | ND | 5.00 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 5.00 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 5.00 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.00 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 5.00 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 5.00 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 5.00 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 5.00 | | ug/L |
| 91-20-3 | Naphthalene | ND | 5.00 | | ug/L |
| 100-42-5 | Styrene | ND | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409221002 | **MW-19 AT 30** | Water | 09/18/2014 10:28 | 09/20/2014 09:30 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 09/24/2014 00:34 | ALC | 541633 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **9.69** | **5.00** | | **ug/L** |
| 108-88-3 | Toluene | ND | 5.00 | | ug/L |
| 79-01-6 | Trichloroethene | ND | 5.00 | | ug/L |
| 75-69-4 | Trichlorofluoromethane | ND | 5.00 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.00 | | ug/L |
| **75-01-4** | **Vinyl chloride** | **15.9** | **5.00** | | **ug/L** |
| 1330-20-7 | Xylene (total) | ND | 15.0 | | ug/L |
| **156-59-2** | **cis-1,2-Dichloroethene** | **66.1** | **5.00** | | **ug/L** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 10.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 5.00 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | | ug/L |
| 95-47-6 | o-Xylene | ND | 5.00 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 5.00 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 5.00 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 5.00 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.00 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 50 | 47.6 | ug/L | 95 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 50 | 50.5 | ug/L | 101 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 50 | 55.3 | ug/L | 111 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50 | 50.1 | ug/L | 100 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409221003 | **MW-15 AT 30** | Water | 09/18/2014 11:28 | 09/20/2014 09:30 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 09/24/2014 00:55 | ALC | 541633 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.00 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.00 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.00 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.00 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.00 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.00 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.00 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.00 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.00 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.00 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.00 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.00 | | ug/L |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **31.0** | **10.0** | | **ug/L** |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.00 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.00 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.00 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.00 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.00 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.00 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 5.00 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 5.00 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 5.00 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 5.00 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 5.00 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | | ug/L |
| 67-64-1 | Acetone | ND | 5.00 | | ug/L |
| 71-43-2 | Benzene | ND | 5.00 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 5.00 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 5.00 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 5.00 | | ug/L |
| 75-25-2 | Bromoform | ND | 5.00 | | ug/L |
| 74-83-9 | Bromomethane | ND | 5.00 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 5.00 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 5.00 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 5.00 | | ug/L |
| 75-00-3 | Chloroethane | ND | 5.00 | | ug/L |
| 67-66-3 | Chloroform | ND | 5.00 | | ug/L |
| 74-87-3 | Chloromethane | ND | 5.00 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 5.00 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 5.00 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.00 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 5.00 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 5.00 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 5.00 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 5.00 | | ug/L |
| 91-20-3 | Naphthalene | ND | 5.00 | | ug/L |
| 100-42-5 | Styrene | ND | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409221003 | **MW-15 AT 30** | Water | 09/18/2014 11:28 | 09/20/2014 09:30 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 09/24/2014 00:55 | ALC | 541633 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | ND | 5.00 | | ug/L |
| 108-88-3 | Toluene | ND | 5.00 | | ug/L |
| 79-01-6 | Trichloroethene | ND | 5.00 | | ug/L |
| 75-69-4 | Trichlorofluoromethane | ND | 5.00 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.00 | | ug/L |
| **75-01-4** | **Vinyl chloride** | **98.8** | **5.00** | | **ug/L** |
| 1330-20-7 | Xylene (total) | ND | 15.0 | | ug/L |
| **156-59-2** | **cis-1,2-Dichloroethene** | **31.0** | **5.00** | | **ug/L** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 10.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 5.00 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | | ug/L |
| 95-47-6 | o-Xylene | ND | 5.00 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 5.00 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 5.00 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 5.00 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.00 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 50 | 48.3 | ug/L | 97 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 50 | 52.7 | ug/L | 105 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 50 | 54.3 | ug/L | 109 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50 | 49.8 | ug/L | 100 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409221004 | **PT-3 AT 60** | Water | 09/18/2014 13:20 | 09/20/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1000 | 09/24/2014 01:58 | ALC | 541633 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **10200** | **5000** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 50000 | 47400 | ug/L | 95 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 50000 | 50500 | ug/L | 101 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 50000 | 54100 | ug/L | 108 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50000 | 48700 | ug/L | 97 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 09/24/2014 03:01 | ALC | 541633 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 250 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 250 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 250 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 250 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 250 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 250 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 250 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 250 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 250 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 250 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 250 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 250 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 250 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 250 | | ug/L |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **7510** | **500** | | **ug/L** |
| 78-87-5 | 1,2-Dichloropropane | ND | 250 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 250 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 250 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 250 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 250 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 250 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 250 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 250 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 250 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 250 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 250 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 250 | | ug/L |
| **67-64-1** | **Acetone** | **1650** | **250** | | **ug/L** |
| 71-43-2 | Benzene | ND | 250 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 250 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 250 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 250 | | ug/L |
| 75-25-2 | Bromoform | ND | 250 | | ug/L |
| 74-83-9 | Bromomethane | ND | 250 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 250 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409221004 | **PT-3 AT 60** | Water | 09/18/2014 13:20 | 09/20/2014 09:30 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 50 | 09/24/2014 03:01 | ALC | 541633 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | ND | 250 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 250 | | ug/L |
| 75-00-3 | Chloroethane | ND | 250 | | ug/L |
| 67-66-3 | Chloroform | ND | 250 | | ug/L |
| 74-87-3 | Chloromethane | ND | 250 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 250 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 250 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 250 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 250 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 250 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 250 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 250 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 250 | | ug/L |
| 91-20-3 | Naphthalene | ND | 250 | | ug/L |
| 100-42-5 | Styrene | ND | 250 | | ug/L |
| 108-88-3 | Toluene | ND | 250 | | ug/L |
| **79-01-6** | **Trichloroethene** | **1010** | **250** | | **ug/L** |
| 75-69-4 | Trichlorofluoromethane | ND | 250 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 250 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 250 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 750 | | ug/L |
| **156-59-2** | **cis-1,2-Dichloroethene** | **7460** | **250** | | **ug/L** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 250 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 500 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 250 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 250 | | ug/L |
| 95-47-6 | o-Xylene | ND | 250 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 250 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 250 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 250 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 250 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 250 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 250 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 2500 | 2380 | ug/L | 95 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 2500 | 2540 | ug/L | 102 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 2500 | 2710 | ug/L | 108 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 2500 | 2490 | ug/L | 100 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409221005 | **MW-20 AT 60** | Water | 09/18/2014 14:06 | 09/20/2014 09:30 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 10 | 09/24/2014 01:16 | ALC | 541633 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| **127-18-4** | **Tetrachloroethene** | **1460** | **50.0** | | **ug/L** |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 500 | 475 | ug/L | 95 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 500 | 509 | ug/L | 102 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 500 | 536 | ug/L | 107 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 500 | 476 | ug/L | 95 | 71 - 127 |

## EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 09/24/2014 02:19 | ALC | 541633 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.00 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.00 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.00 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.00 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.00 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.00 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.00 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.00 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.00 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.00 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.00 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.00 | | ug/L |
| **540-59-0** | **1,2-Dichloroethene(Total)** | **107** | **10.0** | | **ug/L** |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.00 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.00 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.00 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.00 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.00 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.00 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 5.00 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 5.00 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 5.00 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 5.00 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 5.00 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | | ug/L |
| 67-64-1 | Acetone | ND | 5.00 | | ug/L |
| 71-43-2 | Benzene | ND | 5.00 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 5.00 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 5.00 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 5.00 | | ug/L |
| 75-25-2 | Bromoform | ND | 5.00 | | ug/L |
| 74-83-9 | Bromomethane | ND | 5.00 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409221005 | **MW-20 AT 60** | Water | 09/18/2014 14:06 | 09/20/2014 09:30 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 09/24/2014 02:19 | ALC | 541633 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 56-23-5 | Carbon tetrachloride | ND | 5.00 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 5.00 | | ug/L |
| 75-00-3 | Chloroethane | ND | 5.00 | | ug/L |
| 67-66-3 | Chloroform | ND | 5.00 | | ug/L |
| 74-87-3 | Chloromethane | ND | 5.00 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 5.00 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 5.00 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.00 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 5.00 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 5.00 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 5.00 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 5.00 | | ug/L |
| 91-20-3 | Naphthalene | ND | 5.00 | | ug/L |
| 100-42-5 | Styrene | ND | 5.00 | | ug/L |
| 108-88-3 | Toluene | ND | 5.00 | | ug/L |
| **79-01-6** | **Trichloroethene** | **140** | **5.00** | | **ug/L** |
| 75-69-4 | Trichlorofluoromethane | ND | 5.00 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.00 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 5.00 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 15.0 | | ug/L |
| **156-59-2** | **cis-1,2-Dichloroethene** | **104** | **5.00** | | **ug/L** |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 10.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 5.00 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | | ug/L |
| 95-47-6 | o-Xylene | ND | 5.00 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 5.00 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 5.00 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 5.00 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.00 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 50 | 48.1 | ug/L | 96 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 50 | 52.3 | ug/L | 105 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 50 | 54.8 | ug/L | 110 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50 | 50.1 | ug/L | 100 | 71 - 127 |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409221006 | **TRIP BLANK** | Water | 09/18/2014 00:00 | 09/20/2014 09:30 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 09/22/2014 16:25 | CEK | 541511 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.00 | | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.00 | | ug/L |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.00 | | ug/L |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.00 | | ug/L |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.00 | | ug/L |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.00 | | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.00 | | ug/L |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.00 | | ug/L |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.00 | | ug/L |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.00 | | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.00 | | ug/L |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.00 | | ug/L |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 10.0 | | ug/L |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.00 | | ug/L |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.00 | | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.00 | | ug/L |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.00 | | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.00 | | ug/L |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.00 | | ug/L |
| 78-93-3 | 2-Butanone | ND | 5.00 | | ug/L |
| 95-49-8 | 2-Chlorotoluene | ND | 5.00 | | ug/L |
| 591-78-6 | 2-Hexanone | ND | 5.00 | | ug/L |
| 106-43-4 | 4-Chlorotoluene | ND | 5.00 | | ug/L |
| 99-87-6 | 4-Isopropyltoluene | ND | 5.00 | | ug/L |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | | ug/L |
| **67-64-1** | **Acetone** | **6.10** | **5.00** | | **ug/L** |
| 71-43-2 | Benzene | ND | 5.00 | | ug/L |
| 108-86-1 | Bromobenzene | ND | 5.00 | | ug/L |
| 74-97-5 | Bromochloromethane | ND | 5.00 | | ug/L |
| 75-27-4 | Bromodichloromethane | ND | 5.00 | | ug/L |
| 75-25-2 | Bromoform | ND | 5.00 | | ug/L |
| 74-83-9 | Bromomethane | ND | 5.00 | | ug/L |
| 75-15-0 | Carbon disulfide | ND | 5.00 | | ug/L |
| 56-23-5 | Carbon tetrachloride | ND | 5.00 | | ug/L |
| 108-90-7 | Chlorobenzene | ND | 5.00 | | ug/L |
| 75-00-3 | Chloroethane | ND | 5.00 | | ug/L |
| 67-66-3 | Chloroform | ND | 5.00 | | ug/L |
| 74-87-3 | Chloromethane | ND | 5.00 | | ug/L |
| 124-48-1 | Dibromochloromethane | ND | 5.00 | | ug/L |
| 74-95-3 | Dibromomethane | ND | 5.00 | | ug/L |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.00 | | ug/L |
| 100-41-4 | Ethylbenzene | ND | 5.00 | | ug/L |
| 87-68-3 | Hexachlorobutadiene | ND | 5.00 | | ug/L |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | | ug/L |
| 74-88-4 | Methyl iodide | ND | 5.00 | | ug/L |
| 75-09-2 | Methylene chloride | ND | 5.00 | | ug/L |
| 91-20-3 | Naphthalene | ND | 5.00 | | ug/L |
| 100-42-5 | Styrene | ND | 5.00 | | ug/L |

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 21409221006 | **TRIP BLANK** | Water | 09/18/2014 00:00 | 09/20/2014 09:30 |

# EPA 8260B

| Prep Date | Prep Batch | Prep Method | Dilution | Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|
| | | | 1 | 09/22/2014 16:25 | CEK | 541511 |

| CAS# | Parameter | Result | RDL | REG LIMIT | Units |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | ND | 5.00 | | ug/L |
| 108-88-3 | Toluene | ND | 5.00 | | ug/L |
| 79-01-6 | Trichloroethene | ND | 5.00 | | ug/L |
| 75-69-4 | Trichlorofluoromethane | ND | 5.00 | | ug/L |
| 76-13-1 | Trichlorotrifluoroethane | ND | 5.00 | | ug/L |
| 75-01-4 | Vinyl chloride | ND | 5.00 | | ug/L |
| 1330-20-7 | Xylene (total) | ND | 15.0 | | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 136777-61-2 | m,p-Xylene | ND | 10.0 | | ug/L |
| 104-51-8 | n-Butylbenzene | ND | 5.00 | | ug/L |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | | ug/L |
| 95-47-6 | o-Xylene | ND | 5.00 | | ug/L |
| 135-98-8 | sec-Butylbenzene | ND | 5.00 | | ug/L |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 5.00 | | ug/L |
| 98-06-6 | tert-Butylbenzene | ND | 5.00 | | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | | ug/L |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | | ug/L |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.00 | | ug/L |

| CAS# | Surrogate | Conc. Spiked | Conc. Rec | Units | % Recovery | Rec Limits |
|---|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 50 | 49.3 | ug/L | 99 | 78 - 130 |
| 1868-53-7 | Dibromofluoromethane | 50 | 50.3 | ug/L | 101 | 77 - 127 |
| 2037-26-5 | Toluene d8 | 50 | 55 | ug/L | 110 | 76 - 134 |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50 | 47.4 | ug/L | 95 | 71 - 127 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 541511 | **Client ID** | MB541511 | | | LCS541511 | | | LCSD541511 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1362079 | | | 1362080 | | | 1362081 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 09/22/2014 13:55 | | | 09/22/2014 12:10 | | | 09/22/2014 12:31 | | |
| | | **Matrix** | Water | | | Water | | | Water | | |
| **EPA 8260B** | | **Units** | **Result** | ug/L **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 67-64-1 | Acetone | | ND | 5.00 | 50.0 | 42.9 | 86 | 44 - 156 | 40.7 | 81 | 5 | 30 |
| 74-97-5 | Bromochloromethane | | ND | 5.00 | 50.0 | 55.6 | 111 | 76 - 130 | 55.9 | 112 | 1 | 30 |
| 75-27-4 | Bromodichloromethane | | ND | 5.00 | 50.0 | 52.2 | 104 | 74 - 125 | 49.0 | 98 | 6 | 30 |
| 75-25-2 | Bromoform | | ND | 5.00 | 50.0 | 55.6 | 111 | 64 - 122 | 58.6 | 117 | 5 | 30 |
| 74-83-9 | Bromomethane | | ND | 5.00 | 50.0 | 45.5 | 91 | 47 - 138 | 45.4 | 91 | 0 | 30 |
| 75-15-0 | Carbon disulfide | | ND | 5.00 | 50.0 | 50.4 | 101 | 69 - 136 | 47.1 | 94 | 7 | 30 |
| 56-23-5 | Carbon tetrachloride | | ND | 5.00 | 50.0 | 56.7 | 113 | 76 - 128 | 57.8 | 116 | 2 | 30 |
| 75-00-3 | Chloroethane | | ND | 5.00 | 50.0 | 45.8 | 92 | 62 - 141 | 43.7 | 87 | 5 | 30 |
| 136777-61-2 | m,p-Xylene | | ND | 10.0 | 100 | 101 | 101 | 74 - 126 | 104 | 104 | 3 | 30 |
| 67-66-3 | Chloroform | | ND | 5.00 | 50.0 | 52.5 | 105 | 75 - 122 | 54.1 | 108 | 3 | 30 |
| 74-87-3 | Chloromethane | | ND | 5.00 | 50.0 | 46.9 | 94 | 59 - 132 | 45.7 | 91 | 3 | 30 |
| 124-48-1 | Dibromochloromethane | | ND | 5.00 | 50.0 | 54.0 | 108 | 71 - 123 | 56.3 | 113 | 4 | 30 |
| 74-95-3 | Dibromomethane | | ND | 5.00 | 50.0 | 50.1 | 100 | 72 - 129 | 48.3 | 97 | 4 | 30 |
| 75-71-8 | Dichlorodifluoromethane | | ND | 5.00 | 50.0 | 53.8 | 108 | 58 - 140 | 54.5 | 109 | 1 | 30 |
| 75-34-3 | 1,1-Dichloroethane | | ND | 5.00 | 50.0 | 48.5 | 97 | 74 - 127 | 48.8 | 98 | 1 | 30 |
| 107-06-2 | 1,2-Dichloroethane | | ND | 5.00 | 50.0 | 50.2 | 100 | 71 - 129 | 52.1 | 104 | 4 | 30 |
| 156-59-2 | cis-1,2-Dichloroethene | | ND | 5.00 | 50.0 | 47.0 | 94 | 73 - 130 | 51.5 | 103 | 9 | 30 |
| 156-60-5 | trans-1,2-Dichloroethene | | ND | 5.00 | 50.0 | 49.3 | 99 | 69 - 132 | 41.0 | 82 | 18 | 30 |
| 75-09-2 | Methylene chloride | | ND | 5.00 | 50.0 | 50.3 | 101 | 68 - 132 | 42.9 | 86 | 16 | 30 |
| 78-87-5 | 1,2-Dichloropropane | | ND | 5.00 | 50.0 | 50.0 | 100 | 72 - 128 | 48.1 | 96 | 4 | 30 |
| 10061-01-5 | cis-1,3-Dichloropropene | | ND | 5.00 | 50.0 | 48.8 | 98 | 71 - 132 | 46.1 | 92 | 6 | 30 |
| 10061-02-6 | trans-1,3-Dichloropropene | | ND | 5.00 | 50.0 | 47.6 | 95 | 71 - 131 | 45.9 | 92 | 4 | 30 |
| 100-41-4 | Ethylbenzene | | ND | 5.00 | 50.0 | 54.6 | 109 | 74 - 126 | 56.2 | 112 | 3 | 30 |
| 591-78-6 | 2-Hexanone | | ND | 5.00 | 50.0 | 45.9 | 92 | 50 - 135 | 50.3 | 101 | 9 | 30 |
| 98-82-8 | Isopropylbenzene (Cumene) | | ND | 5.00 | 50.0 | 49.4 | 99 | 71 - 125 | 50.2 | 100 | 2 | 30 |
| 78-93-3 | 2-Butanone | | ND | 5.00 | 50.0 | 45.9 | 92 | 58 - 137 | 54.7 | 109 | 17 | 30 |
| 74-88-4 | Methyl iodide | | ND | 5.00 | 50.0 | 48.2 | 96 | 57 - 141 | 50.0 | 100 | 4 | 30 |
| 108-10-1 | 4-Methyl-2-pentanone | | ND | 5.00 | 50.0 | 45.6 | 91 | 57 - 132 | 51.1 | 102 | 11 | 30 |
| 103-65-1 | n-Propylbenzene | | ND | 5.00 | 50.0 | 51.5 | 103 | 75 - 129 | 51.8 | 104 | 1 | 30 |
| 100-42-5 | Styrene | | ND | 5.00 | 50.0 | 49.9 | 100 | 71 - 127 | 51.6 | 103 | 3 | 30 |
| 127-18-4 | Tetrachloroethene | | ND | 5.00 | 50.0 | 56.1 | 112 | 68 - 128 | 55.7 | 111 | 1 | 30 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | | ND | 5.00 | 50.0 | 54.3 | 109 | 75 - 124 | 56.4 | 113 | 4 | 30 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | ND | 5.00 | 50.0 | 45.0 | 90 | 70 - 122 | 48.6 | 97 | 8 | 30 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 541511 | **Client ID** | MB541511 | | | LCS541511 | | | LCSD541511 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1362079 | | | 1362080 | | | 1362081 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 09/22/2014 13:55 | | | 09/22/2014 12:10 | | | 09/22/2014 12:31 | | |
| | | **Matrix** | Water | | | Water | | | Water | | |
| **EPA 8260B** | | **Units** | **Result** | ug/L **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 120-82-1 | 1,2,4-Trichlorobenzene | | ND | 5.00 | 50.0 | 52.7 | 105 | 61 - 135 | 56.3 | 113 | 7 | 30 |
| 71-55-6 | 1,1,1-Trichloroethane | | ND | 5.00 | 50.0 | 53.0 | 106 | 76 - 126 | 55.4 | 111 | 4 | 30 |
| 79-00-5 | 1,1,2-Trichloroethane | | ND | 5.00 | 50.0 | 51.2 | 102 | 72 - 121 | 52.8 | 106 | 3 | 30 |
| 75-69-4 | Trichlorofluoromethane | | ND | 5.00 | 50.0 | 51.9 | 104 | 72 - 136 | 49.4 | 99 | 5 | 30 |
| 96-18-4 | 1,2,3-Trichloropropane | | ND | 5.00 | 50.0 | 46.8 | 94 | 70 - 120 | 48.6 | 97 | 4 | 30 |
| 95-63-6 | 1,2,4-Trimethylbenzene | | ND | 5.00 | 50.0 | 53.2 | 106 | 74 - 125 | 54.4 | 109 | 2 | 30 |
| 108-67-8 | 1,3,5-Trimethylbenzene | | ND | 5.00 | 50.0 | 52.8 | 106 | 71 - 132 | 54.1 | 108 | 2 | 30 |
| 75-01-4 | Vinyl chloride | | ND | 5.00 | 50.0 | 48.2 | 96 | 68 - 132 | 47.0 | 94 | 3 | 30 |
| 95-47-6 | o-Xylene | | ND | 5.00 | 50.0 | 48.6 | 97 | 73 - 130 | 49.3 | 99 | 1 | 30 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | ND | 5.00 | 50.0 | 50.2 | 100 | 57 - 121 | 57.7 | 115 | 14 | 30 |
| 106-93-4 | 1,2-Dibromoethane | | ND | 5.00 | 50.0 | 52.7 | 105 | 70 - 124 | 52.9 | 106 | 0 | 30 |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | | ND | 5.00 | 50.0 | 52.2 | 104 | 71 - 125 | 44.1 | 88 | 17 | 30 |
| 540-59-0 | 1,2-Dichloroethene(Total) | | ND | 10.0 | 100 | 96.2 | 96 | 74 - 128 | 92.5 | 93 | 4 | 30 |
| 99-87-6 | 4-Isopropyltoluene | | ND | 5.00 | 50.0 | 55.7 | 111 | 71 - 129 | 56.2 | 112 | 1 | 30 |
| 1330-20-7 | Xylene (total) | | ND | 15.0 | 150 | 149 | 99 | 74 - 127 | 153 | 102 | 3 | 30 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | | ND | 5.00 | 50.0 | 45.6 | 91 | 56 - 132 | 50.1 | 100 | 9 | 30 |
| 594-20-7 | 2,2-Dichloropropane | | ND | 5.00 | 50.0 | 54.5 | 109 | 77 - 124 | 56.4 | 113 | 3 | 30 |
| 76-13-1 | Trichlorotrifluoroethane | | ND | 5.00 | 50.0 | 54.3 | 109 | 72 - 136 | 51.1 | 102 | 6 | 30 |
| 563-58-6 | 1,1-Dichloropropene | | ND | 5.00 | 50.0 | 53.7 | 107 | 72 - 131 | 56.4 | 113 | 5 | 30 |
| 142-28-9 | 1,3-Dichloropropane | | ND | 5.00 | 50.0 | 50.4 | 101 | 74 - 122 | 52.0 | 104 | 3 | 30 |
| 108-86-1 | Bromobenzene | | ND | 5.00 | 50.0 | 47.2 | 94 | 71 - 120 | 48.4 | 97 | 3 | 30 |
| 95-49-8 | 2-Chlorotoluene | | ND | 5.00 | 50.0 | 48.4 | 97 | 72 - 127 | 49.7 | 99 | 3 | 30 |
| 106-43-4 | 4-Chlorotoluene | | ND | 5.00 | 50.0 | 49.3 | 99 | 75 - 126 | 49.4 | 99 | 0 | 30 |
| 98-06-6 | tert-Butylbenzene | | ND | 5.00 | 50.0 | 51.3 | 103 | 72 - 126 | 52.8 | 106 | 3 | 30 |
| 135-98-8 | sec-Butylbenzene | | ND | 5.00 | 50.0 | 53.5 | 107 | 70 - 136 | 55.2 | 110 | 3 | 30 |
| 541-73-1 | 1,3-Dichlorobenzene | | ND | 5.00 | 50.0 | 52.0 | 104 | 74 - 126 | 53.4 | 107 | 3 | 30 |
| 106-46-7 | 1,4-Dichlorobenzene | | ND | 5.00 | 50.0 | 49.7 | 99 | 72 - 122 | 50.9 | 102 | 2 | 30 |
| 104-51-8 | n-Butylbenzene | | ND | 5.00 | 50.0 | 52.2 | 104 | 69 - 134 | 53.0 | 106 | 2 | 30 |
| 95-50-1 | 1,2-Dichlorobenzene | | ND | 5.00 | 50.0 | 51.7 | 103 | 71 - 126 | 53.2 | 106 | 3 | 30 |
| 87-68-3 | Hexachlorobutadiene | | ND | 5.00 | 50.0 | 54.4 | 109 | 61 - 144 | 56.6 | 113 | 4 | 30 |
| 91-20-3 | Naphthalene | | ND | 5.00 | 50.0 | 46.2 | 92 | 57 - 138 | 51.3 | 103 | 10 | 35 |
| 75-35-4 | 1,1-Dichloroethene | | ND | 5.00 | 50.0 | 50.6 | 101 | 69 - 129 | 48.3 | 97 | 5 | 20 |
| 71-43-2 | Benzene | | ND | 5.00 | 50.0 | 50.6 | 101 | 70 - 129 | 54.4 | 109 | 7 | 20 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 541511 | **Client ID** | MB541511 | | | LCS541511 | | | LCSD541511 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1362079 | | | 1362080 | | | 1362081 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 09/22/2014 13:55 | | | 09/22/2014 12:10 | | | 09/22/2014 12:31 | | |
| | | **Matrix** | Water | | | Water | | | Water | | |
| **EPA 8260B** | | **Units** | **Result** | ug/L **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 79-01-6 | Trichloroethene | | ND | 5.00 | 50.0 | 55.6 | 111 | 76 - 129 | 55.0 | 110 | 1 | 20 |
| 108-88-3 | Toluene | | ND | 5.00 | 50.0 | 50.1 | 100 | 72 - 120 | 51.0 | 102 | 2 | 20 |
| 108-90-7 | Chlorobenzene | | ND | 5.00 | 50.0 | 53.1 | 106 | 74 - 123 | 54.0 | 108 | 2 | 20 |
| **Surrogate** | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | | 49 | 98 | 50 | 53.4 | 107 | 78 - 130 | 53.5 | 107 | | |
| 1868-53-7 | Dibromofluoromethane | | 50.8 | 102 | 50 | 53.2 | 106 | 77 - 127 | 53.3 | 107 | | |
| 2037-26-5 | Toluene d8 | | 56.2 | 112 | 50 | 49.5 | 99 | 76 - 134 | 49 | 98 | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | | 49.5 | 99 | 50 | 49.6 | 99 | 71 - 127 | 49.2 | 98 | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 541633 | **Client ID** | MB541633 | | | LCS541633 | | | LCSD541633 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1362716 | | | 1362717 | | | 1362718 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 09/23/2014 22:50 | | | 09/23/2014 21:26 | | | 09/23/2014 21:47 | | |
| | | **Matrix** | Water | | | Water | | | Water | | |
| **EPA 8260B** | | **Units** | **Result** | ug/L **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 67-64-1 | Acetone | | ND | 5.00 | 50.0 | 48.3 | 97 | 44 - 156 | 48.1 | 96 | 0 | 30 |
| 74-97-5 | Bromochloromethane | | ND | 5.00 | 50.0 | 50.1 | 100 | 76 - 130 | 51.3 | 103 | 2 | 30 |
| 75-27-4 | Bromodichloromethane | | ND | 5.00 | 50.0 | 50.3 | 101 | 74 - 125 | 52.2 | 104 | 4 | 30 |
| 75-25-2 | Bromoform | | ND | 5.00 | 50.0 | 51.0 | 102 | 64 - 122 | 55.8 | 112 | 9 | 30 |
| 74-83-9 | Bromomethane | | ND | 5.00 | 50.0 | 43.9 | 88 | 47 - 138 | 51.1 | 102 | 15 | 30 |
| 75-15-0 | Carbon disulfide | | ND | 5.00 | 50.0 | 48.8 | 98 | 69 - 136 | 50.2 | 100 | 3 | 30 |
| 56-23-5 | Carbon tetrachloride | | ND | 5.00 | 50.0 | 50.5 | 101 | 76 - 128 | 52.8 | 106 | 4 | 30 |
| 75-00-3 | Chloroethane | | ND | 5.00 | 50.0 | 45.8 | 92 | 62 - 141 | 47.3 | 95 | 3 | 30 |
| 136777-61-2 | m,p-Xylene | | ND | 10.0 | 100 | 95.3 | 95 | 74 - 126 | 101 | 101 | 6 | 30 |
| 67-66-3 | Chloroform | | ND | 5.00 | 50.0 | 46.3 | 93 | 75 - 122 | 48.4 | 97 | 4 | 30 |
| 74-87-3 | Chloromethane | | ND | 5.00 | 50.0 | 41.4 | 83 | 59 - 132 | 46.1 | 92 | 11 | 30 |
| 124-48-1 | Dibromochloromethane | | ND | 5.00 | 50.0 | 51.2 | 102 | 71 - 123 | 55.8 | 112 | 9 | 30 |
| 74-95-3 | Dibromomethane | | ND | 5.00 | 50.0 | 49.1 | 98 | 72 - 129 | 51.2 | 102 | 4 | 30 |
| 75-71-8 | Dichlorodifluoromethane | | ND | 5.00 | 50.0 | 51.1 | 102 | 58 - 140 | 55.9 | 112 | 9 | 30 |
| 75-34-3 | 1,1-Dichloroethane | | ND | 5.00 | 50.0 | 46.2 | 92 | 74 - 127 | 48.5 | 97 | 5 | 30 |
| 107-06-2 | 1,2-Dichloroethane | | ND | 5.00 | 50.0 | 47.0 | 94 | 71 - 129 | 49.9 | 100 | 6 | 30 |

# GC/MS Volatiles Quality Control Summary

| | | | | | |
|---|---|---|---|---|---|
| **Analytical Batch** 541633 | **Client ID** | MB541633 | LCS541633 | LCSD541633 | |
| **Prep Batch** N/A | **GCAL ID** | 1362716 | 1362717 | 1362718 | |
| | **Sample Type** | Method Blank | LCS | LCSD | |
| | **Analytical Date** | 09/23/2014 22:50 | 09/23/2014 21:26 | 09/23/2014 21:47 | |
| | **Matrix** | Water | Water | Water | |

| **EPA 8260B** | | **Units** | ug/L | **Spike** | **Result** | | **Control** | **Result** | | | **RPD** |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Result** | **RDL** | **Added** | | **% R** | **Limits % R** | | **% R** | **RPD** | **Limit** |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 5.00 | 50.0 | 40.7 | 81 | 73 - 130 | 42.7 | 85 | 5 | 30 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 5.00 | 50.0 | 48.9 | 98 | 69 - 132 | 43.3 | 87 | 12 | 30 |
| 75-09-2 | Methylene chloride | ND | 5.00 | 50.0 | 49.0 | 98 | 68 - 132 | 49.6 | 99 | 1 | 30 |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.00 | 50.0 | 47.8 | 96 | 72 - 128 | 50.5 | 101 | 5 | 30 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.00 | 50.0 | 46.7 | 93 | 71 - 132 | 48.7 | 97 | 4 | 30 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.00 | 50.0 | 46.3 | 93 | 71 - 131 | 48.3 | 97 | 4 | 30 |
| 100-41-4 | Ethylbenzene | ND | 5.00 | 50.0 | 52.3 | 105 | 74 - 126 | 55.0 | 110 | 5 | 30 |
| 591-78-6 | 2-Hexanone | ND | 5.00 | 50.0 | 44.5 | 89 | 50 - 135 | 47.9 | 96 | 7 | 30 |
| 98-82-8 | Isopropylbenzene (Cumene) | ND | 5.00 | 50.0 | 47.0 | 94 | 71 - 125 | 48.8 | 98 | 4 | 30 |
| 78-93-3 | 2-Butanone | ND | 5.00 | 50.0 | 42.9 | 86 | 58 - 137 | 44.1 | 88 | 3 | 30 |
| 74-88-4 | Methyl iodide | ND | 5.00 | 50.0 | 41.8 | 84 | 57 - 141 | 46.1 | 92 | 10 | 30 |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.00 | 50.0 | 44.5 | 89 | 57 - 132 | 48.0 | 96 | 8 | 30 |
| 103-65-1 | n-Propylbenzene | ND | 5.00 | 50.0 | 49.7 | 99 | 75 - 129 | 51.6 | 103 | 4 | 30 |
| 100-42-5 | Styrene | ND | 5.00 | 50.0 | 46.8 | 94 | 71 - 127 | 50.2 | 100 | 7 | 30 |
| 127-18-4 | Tetrachloroethene | ND | 5.00 | 50.0 | 52.0 | 104 | 68 - 128 | 55.0 | 110 | 6 | 30 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.00 | 50.0 | 50.3 | 101 | 75 - 124 | 53.8 | 108 | 7 | 30 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.00 | 50.0 | 44.3 | 89 | 70 - 122 | 49.2 | 98 | 10 | 30 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.00 | 50.0 | 50.2 | 100 | 61 - 135 | 53.8 | 108 | 7 | 30 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.00 | 50.0 | 48.7 | 97 | 76 - 126 | 50.5 | 101 | 4 | 30 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.00 | 50.0 | 49.0 | 98 | 72 - 121 | 51.9 | 104 | 6 | 30 |
| 75-69-4 | Trichlorofluoromethane | ND | 5.00 | 50.0 | 51.0 | 102 | 72 - 136 | 53.1 | 106 | 4 | 30 |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.00 | 50.0 | 46.7 | 93 | 70 - 120 | 49.4 | 99 | 6 | 30 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.00 | 50.0 | 50.5 | 101 | 74 - 125 | 53.9 | 108 | 7 | 30 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.00 | 50.0 | 50.9 | 102 | 71 - 132 | 53.6 | 107 | 5 | 30 |
| 75-01-4 | Vinyl chloride | ND | 5.00 | 50.0 | 45.6 | 91 | 68 - 132 | 49.4 | 99 | 8 | 30 |
| 95-47-6 | o-Xylene | ND | 5.00 | 50.0 | 45.7 | 91 | 73 - 130 | 48.9 | 98 | 7 | 30 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.00 | 50.0 | 47.0 | 94 | 57 - 121 | 52.9 | 106 | 12 | 30 |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.00 | 50.0 | 49.5 | 99 | 70 - 124 | 52.1 | 104 | 5 | 30 |
| 1634-04-4 | tert-Butyl methyl ether (MTBE) | ND | 5.00 | 50.0 | 51.1 | 102 | 71 - 125 | 44.1 | 88 | 15 | 30 |
| 540-59-0 | 1,2-Dichloroethene(Total) | ND | 10.0 | 100 | 89.6 | 90 | 74 - 128 | 86.0 | 86 | 4 | 30 |
| 99-87-6 | 4-Isopropyltoluene | ND | 5.00 | 50.0 | 53.0 | 106 | 71 - 129 | 56.0 | 112 | 6 | 30 |
| 1330-20-7 | Xylene (total) | ND | 15.0 | 150 | 141 | 94 | 74 - 127 | 150 | 100 | 6 | 30 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | ND | 5.00 | 50.0 | 45.2 | 90 | 56 - 132 | 46.7 | 93 | 3 | 30 |

# GC/MS Volatiles Quality Control Summary

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Batch** | 541633 | **Client ID** | MB541633 | | | LCS541633 | | | LCSD541633 | | |
| **Prep Batch** | N/A | **GCAL ID** | 1362716 | | | 1362717 | | | 1362718 | | |
| | | **Sample Type** | Method Blank | | | LCS | | | LCSD | | |
| | | **Analytical Date** | 09/23/2014 22:50 | | | 09/23/2014 21:26 | | | 09/23/2014 21:47 | | |
| | | **Matrix** | Water | | | Water | | | Water | | |
| **EPA 8260B** | | **Units** | **Result** | ug/L **RDL** | **Spike Added** | **Result** | **% R** | **Control Limits % R** | **Result** | **% R** | **RPD** | **RPD Limit** |
| 594-20-7 | 2,2-Dichloropropane | | ND | 5.00 | 50.0 | 45.9 | 92 | 77 - 124 | 47.5 | 95 | 3 | 30 |
| 76-13-1 | Trichlorotrifluoroethane | | ND | 5.00 | 50.0 | 53.7 | 107 | 72 - 136 | 54.2 | 108 | 1 | 30 |
| 563-58-6 | 1,1-Dichloropropene | | ND | 5.00 | 50.0 | 48.4 | 97 | 72 - 131 | 49.3 | 99 | 2 | 30 |
| 142-28-9 | 1,3-Dichloropropane | | ND | 5.00 | 50.0 | 48.3 | 97 | 74 - 122 | 50.9 | 102 | 5 | 30 |
| 108-86-1 | Bromobenzene | | ND | 5.00 | 50.0 | 45.0 | 90 | 71 - 120 | 48.3 | 97 | 7 | 30 |
| 95-49-8 | 2-Chlorotoluene | | ND | 5.00 | 50.0 | 47.0 | 94 | 72 - 127 | 49.3 | 99 | 5 | 30 |
| 106-43-4 | 4-Chlorotoluene | | ND | 5.00 | 50.0 | 47.2 | 94 | 75 - 126 | 50.1 | 100 | 6 | 30 |
| 98-06-6 | tert-Butylbenzene | | ND | 5.00 | 50.0 | 49.2 | 98 | 72 - 126 | 52.6 | 105 | 7 | 30 |
| 135-98-8 | sec-Butylbenzene | | ND | 5.00 | 50.0 | 51.7 | 103 | 70 - 136 | 54.4 | 109 | 5 | 30 |
| 541-73-1 | 1,3-Dichlorobenzene | | ND | 5.00 | 50.0 | 49.2 | 98 | 74 - 126 | 52.3 | 105 | 6 | 30 |
| 106-46-7 | 1,4-Dichlorobenzene | | ND | 5.00 | 50.0 | 46.7 | 93 | 72 - 122 | 49.1 | 98 | 5 | 30 |
| 104-51-8 | n-Butylbenzene | | ND | 5.00 | 50.0 | 51.0 | 102 | 69 - 134 | 53.6 | 107 | 5 | 30 |
| 95-50-1 | 1,2-Dichlorobenzene | | ND | 5.00 | 50.0 | 48.4 | 97 | 71 - 126 | 52.6 | 105 | 8 | 30 |
| 87-68-3 | Hexachlorobutadiene | | ND | 5.00 | 50.0 | 49.8 | 100 | 61 - 144 | 52.8 | 106 | 6 | 30 |
| 91-20-3 | Naphthalene | | ND | 5.00 | 50.0 | 45.5 | 91 | 57 - 138 | 49.9 | 100 | 9 | 35 |
| 75-35-4 | 1,1-Dichloroethene | | ND | 5.00 | 50.0 | 48.4 | 97 | 69 - 129 | 50.6 | 101 | 4 | 20 |
| 71-43-2 | Benzene | | ND | 5.00 | 50.0 | 48.2 | 96 | 70 - 129 | 50.9 | 102 | 5 | 20 |
| 79-01-6 | Trichloroethene | | ND | 5.00 | 50.0 | 53.7 | 107 | 76 - 129 | 56.3 | 113 | 5 | 20 |
| 108-88-3 | Toluene | | ND | 5.00 | 50.0 | 47.7 | 95 | 72 - 120 | 50.1 | 100 | 5 | 20 |
| 108-90-7 | Chlorobenzene | | ND | 5.00 | 50.0 | 49.8 | 100 | 74 - 123 | 52.4 | 105 | 5 | 20 |
| **Surrogate** | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | | 48.3 | 97 | 50 | 52.4 | 105 | 78 - 130 | 51.8 | 104 | | |
| 1868-53-7 | Dibromofluoromethane | | 50.9 | 102 | 50 | 51.2 | 102 | 77 - 127 | 51.3 | 103 | | |
| 2037-26-5 | Toluene d8 | | 55.5 | 111 | 50 | 50.3 | 101 | 76 - 134 | 50.3 | 101 | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | | 48.5 | 97 | 50 | 49.2 | 98 | 71 - 127 | 48.4 | 97 | | |

# GCAL ANALYTICAL LABORATORIES, LLC

# CHAIN OF CUSTODY RECORD

7979 Innovation Park Dr., Baton Rouge, LA 70820-7402
Phone: 225.769.4900 • Fax: 225.767.5717 • www.gcal.com

Client ID: 4642 - Sage Environmental
SDG: 214092210
Due Date: 09/26/14

**Report to:**
Client: Sage Consulting
Address: 600 Chastain Rd Ste 320, Kennesaw GA
Contact: Jack Wittle
Phone: 678 431-0130
E-mail: jack.wittle@sageenvironmental.com

**Bill to:**
Client: same
Address:
Contact:
Phone:
E-mail:

P.O. Number: 1221-4-1
Project Name/Number: Rayloc GW sampling
Sampled By:

Analytical Requests & Method: VOCs - 8260B

GCAL use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
240745 line1
Temperature °C 2.1 E22

☐ Dissolved Analysis Requested
☐ Field filtered
☐ Lab filtered

| Matrix[1] | Date | Time (2400) | Comp | Grab | Sample Description | No Containers | VOCs | Preservative |
|---|---|---|---|---|---|---|---|---|
| W | 9/18 | 9:35 | | ✓ | MW-17 @ 25' | 3 | ✓ | 1 |
| W | 9/18 | 10:28 | | ✓ | MW-19 @ 30' | 3 | ✓ | 2 |
| W | 9/18 | 11:28 | | ✓ | MW-15 @ 30' | 3 | ✓ | 3 |
| W | 9/18 | 13:20 | | ✓ | ~~MW-16~~ PT-3 @ 60' | 3 | ✓ | 4 |
| W | 9/18 | 14:06 | | ✓ | MW-20 @ 60' | 3 | ✓ | 5 |
| ~~W~~ | ~~9/18~~ | | | ~~✓~~ | ~~MW-~~ | ~~3~~ | ~~✓~~ | |
| W | 9/18 | - | | | Trip Blank* | 3 | ✓ | 6 |

Air Bill No: 7712 1685 0919

Turn Around Time (Business Days): ☐ 24h* ☐ 48h* ☐ 3 days* ☐ 1 week* ☑ Standard (Per Contract/Quote)

| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Date: | Time: |
|---|---|---|---|---|---|
| Jack Wittle | 9/19/14 | 8:45 | [illegible] | 9/19/14 | 0845 |
| Hugo Alvez | 9/19/14 | | | | |
| Jed Ek | 9/20/14 | 930 | [illegible] | 9/20/14 | 930 |

Note: * sample added per containers received 9/25 (SH)

By submitting these samples, you agree to GCAL's terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = solid, L = liquid, T = tissue

*Requires prior approval, rush charges may apply.

We cannot accept verbal changes. Please email written changes to your PM.

WHITE: CLIENT FINAL REPORT - CANARY: CLIENT

GCAL ANALYTICAL LABORATORIES, LLC

# SAMPLE RECEIVING CHECKLIST

*214092210*

| SAMPLE DELIVERY GROUP 214092210 | |
|---|---|
| **Client**<br>4642 - Sage Environmental | **Transport Method**<br>FEDEX |
| **Profile Number**<br>240745 | **Received By**<br>Saucier, Charlotte M. |
| **Line Item(s)**<br>1 - VOC | **Receive Date(s)**<br>09/22/14 |

| CHECKLIST | YES | NO | NA |
|---|---|---|---|
| Were all samples received using proper thermal preservation? | ☑ | ☐ | ☐ |
| When used, were all custody seals intact? | ☑ | ☐ | ☐ |
| Were all samples received in proper containers? | ☑ | ☐ | ☐ |
| Were all samples received using proper chemical preservation? | ☑ | ☐ | ☐ |
| Was preservative added to any container at the lab? | ☐ | ☑ | ☐ |
| Were all containers received in good condition? | ☑ | ☐ | ☐ |
| Were all VOA vials received with no head space? | ☑ | ☐ | ☐ |
| Do all sample labels match the Chain of Custody? | ☐ | ☑ | ☐ |
| Did the Chain of Custody list the sampling technician? | SH ☑ | ☑ | ☐ |
| Was the COC maintained i.e. all signatures, dates and time of receipt included? | ☐ | ☑ | ☐ |

## COOLERS

| Airbill | Thermometer ID: E22 | Temp(°C) |
|---|---|---|
| 7712 1685 0919 | | 2.1 |

## DISCREPANCIES

None

## LAB PRESERVATIONS

None

**NOTES** Trip Blank received but not listed on COC SH

# APPENDIX D

# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | A1-I1B |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 1 of 2 |
| Logged By: | DA | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 11/14-15/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA & Air Hammer | Well Type | Flush Mount | Date Well Set | 11/15/2012 |

SAGE ENVIRONMENTAL CONSULTING
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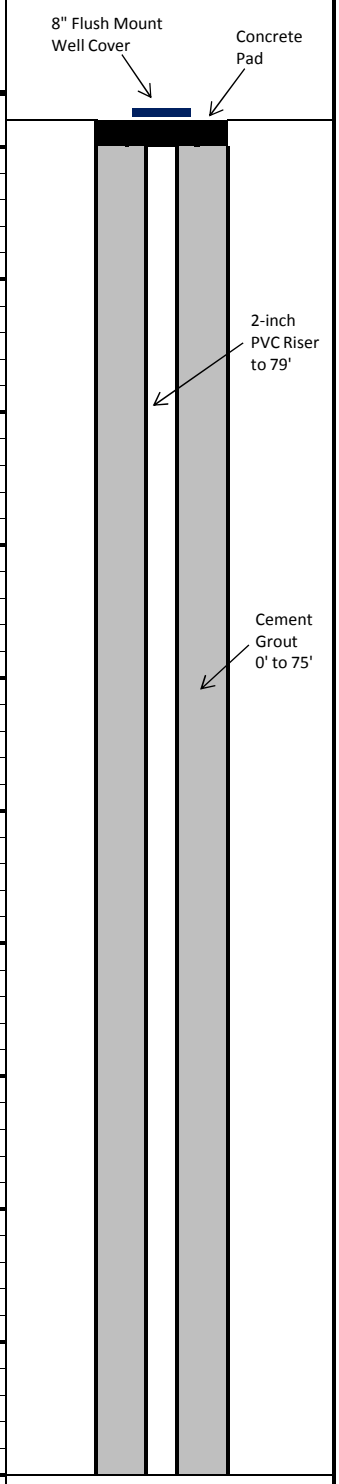
| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Ground Surface |
| | | 0 - 4 | | | No soil samples collected |
| 5 | 100 | 4 - 6 | 761.1 | SM | Brown medium to fine SAND, moist |
| | | 6 - 9 | | | |
| 10 | 15 | 9 - 11 | 1,232.0 | | Limited recovery due to restricted layer at 10' (split spoon refused) - Assumed SAND |
| | | 11 - 14 | | | |
| 15 | 100 | 14 - 16 | 2,766.0 | SM | Red white clayey medium to fine SAND, black mottling |
| | | 16 - 19 | | | |
| 20 | 100 | 19 - 21 | 4,083.0 | SM | Gray pink clayey silty medium to fine SAND, black mottling, saprolitic |
| | | 21 - 24 | | | |
| 25 | 100 | 24 - 26 | 7,011.0 | SM | Gray pink clayey silty medium to fine SAND, saprolitic |
| | | 26 - 29 | | | |
| 30 | 100 | 29 - 31 | 3,170.0 | | |
| | | 31 - 34 | | | |
| 35 | 100 | 34 - 36 | 4,140.0 | | |
| | | 36 - 39 | | | |
| 40 | 100 | 39 - 41 | 10,237.0 | | |
| | | 41 - 44 | | | |
| 45 | 100 | 44 - 46 | 652.0 | SM | Brown silty medium to fine SAND, saprolitic |
| | | | | | No samples collected after 46 feet due to groundwater |
| 50 | | | | | |

Material Settings

COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | **A1-I1B** |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 2 of 2 |
| Logged By: | DA | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 11/14-15/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA & Air Hammer | Well Type | Flush Mount | Date Well Set | 11/15/2012 |

| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION | Material Settings |
|---|---|---|---|---|---|---|
| 50 | | | | | No samples collected after 46 feet due to groundwater | |
| 55 | | | | | | |
| 60 | | | | | | |
| 65 | | | | | | |
| 70 | | | | | Auger refusal at 71 feet below ground surface (bgs) due to bedrock. Use air rotary drilling techniques from 71 to 81 feet bgs. | |
| 75 | | | | | | |
| 80 | | | | | Air rotary drilling terminated at 81 feet bgs. | |

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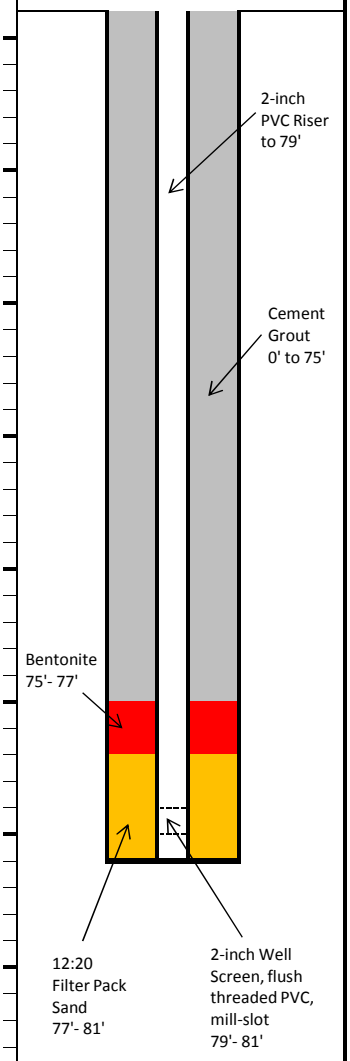
## COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | A1-I2B |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 1 of 2 |
| Logged By: | DA | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 11/15-16/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA & Air Hammer | Well Type | Flush Mount | Date Well Set | 11/16/2012 |

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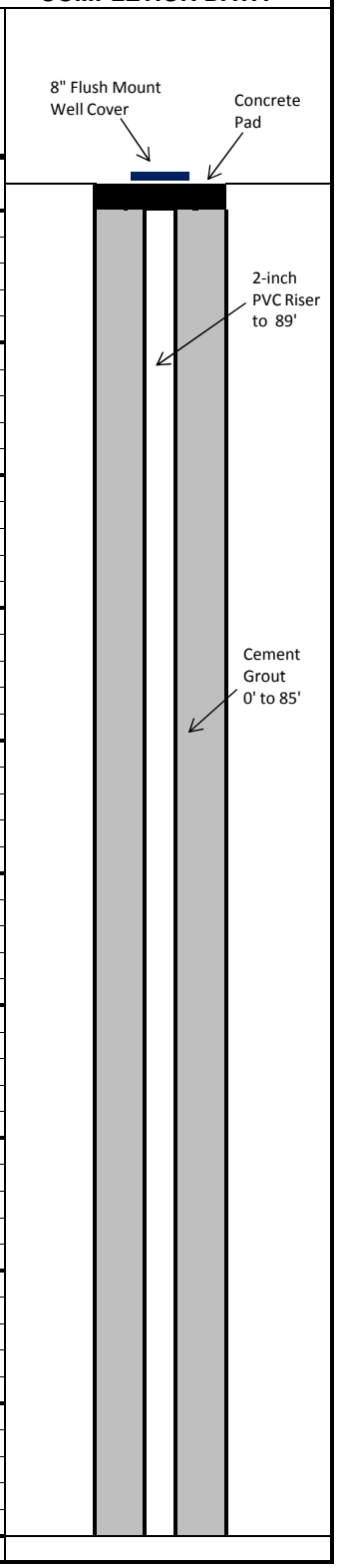
| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | Ground Surface |
| 0 | | 0 - 4 | | | No soil samples collected |
| 5 | 100 | 4 - 6 | 322.2 | SM | Red clayey silty medium to fine SAND, moist |
| | | 6 - 9 | | | |
| 10 | 100 | 9 - 11 | 226.0 | | |
| | | 11 - 14 | | | |
| 15 | 100 | 14 - 16 | 15,000.0 | SM | Red clayey silty medium to fine SAND, saprolitic, odor |
| | | 16 - 19 | | | |
| 20 | 100 | 19 - 21 | 15,000.0 | SM | Red white silty medium to fine SAND, odor |
| | | 21 - 24 | | | |
| 25 | 100 | 24 - 26 | 15,000.0 | SM | Gray pink silty medium to fine SAND, odor, moist from 39' to 46' |
| | | 26 - 29 | | | |
| 30 | 50 | 29 - 31 | 15,000.0 | | |
| | | 31 - 34 | | | |
| 35 | 100 | 34 - 36 | 15,000.0 | | *DYE TEST (~34 - 36 feet) |
| | | 36 - 39 | | | |
| 40 | 100 | 39 - 41 | 15,000.0 | | |
| | | 41 - 44 | | | |
| 45 | 100 | 44 - 46 | 6,090.0 | | |
| | | | | | No samples collected after 46 feet due to groundwater |
| 50 | | | | | |

Material Settings

COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | A1-I2B |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 2 of 2 |
| Logged By: | DA | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 11/15-16/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA & Air Hammer | Well Type | Flush Mount | Date Well Set | 11/16/2012 |

| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION | Material Settings |
|---|---|---|---|---|---|---|
| 50 | | | | | No samples collected after 46 feet due to groundwater | |
| 55 | | | | | | |
| 60 | | | | | | |
| 65 | | | | | | |
| 70 | | | | | | |
| 75 | | | | | | |
| 80 | | | | | Auger refusal at 81 feet below ground surface (bgs) due to bedrock. Use air rotary drilling techniques from 81 to 91 feet bgs. | |
| 85 | | | | | | |
| 90 | | | | | Air rotary drilling terminated at 91 feet bgs. | |
| 95 | | | | | | |

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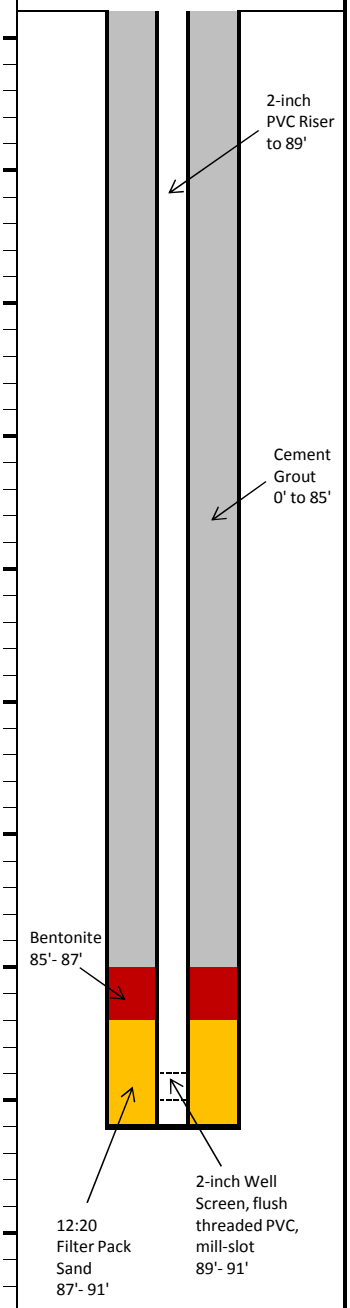
## COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | A1-I3B |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 1 of 2 |
| Logged By: | DA | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 11/19/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA & Air Hammer | Well Type | Flush Mount | Date Well Set | 11/19/2012 |

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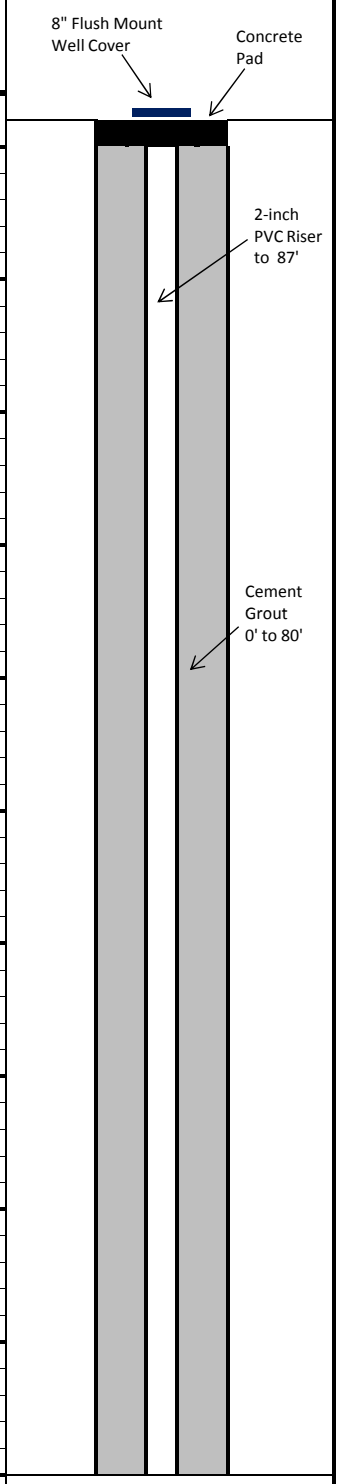
| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Ground Surface |
| | | 0 - 4 | | | No soil samples collected |
| 5 | 100 | 4 - 6 | 3.8 | SM | Red clayey medium to fine SAND, moist |
| | | 6 - 9 | | | |
| 10 | 100 | 9 - 11 | 13.7 | SM | Brown silty medium to fine SAND, moist |
| | | 11 - 14 | | | |
| 15 | 100 | 14 - 16 | 29.8 | | |
| | | 16 - 19 | | | |
| 20 | 100 | 19 - 21 | 56.3 | SM | Red white silty medium to fine SAND |
| | | 21 - 24 | | | |
| 25 | 100 | 24 - 26 | 32.2 | SM | Gray pink silty medium to fine SAND, saprolitic |
| | | 26 - 29 | | | |
| 30 | 100 | 29 - 31 | 16.6 | | |
| | | 31 - 34 | | | |
| 35 | 100 | 34 - 36 | 11.8 | | |
| | | 36 - 39 | | | |
| 40 | 100 | 39 - 41 | 116.3 | | |
| | | 41 - 44 | | | |
| 45 | 100 | 44 - 46 | 30.8 | | |
| | | | | | No samples collected after 46 feet due to groundwater |
| 50 | | | | | |

Material Settings

COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | A1-I3B |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 2 of 2 |
| Logged By: | DA | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 11/19/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA & Air Hammer | Well Type | Flush Mount | Date Well Set | 11/19/2012 |

| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION | Material Settings |
|---|---|---|---|---|---|---|
| 50 | | | | | No samples collected after 46 feet due to groundwater | |
| 55 | | | | | | |
| 60 | | | | | | |
| 65 | | | | | | |
| 70 | | | | | | |
| 75 | | | | | | |
| 80 | | | | | Auger refusal at 79 feet below ground surface (bgs) due to bedrock. Use air rotary drilling techniques from 79 to 89 feet bgs. | |
| 85 | | | | | | |
| 90 | | | | | Air rotary drilling terminated at 89 feet bgs. | |
| 95 | | | | | | |

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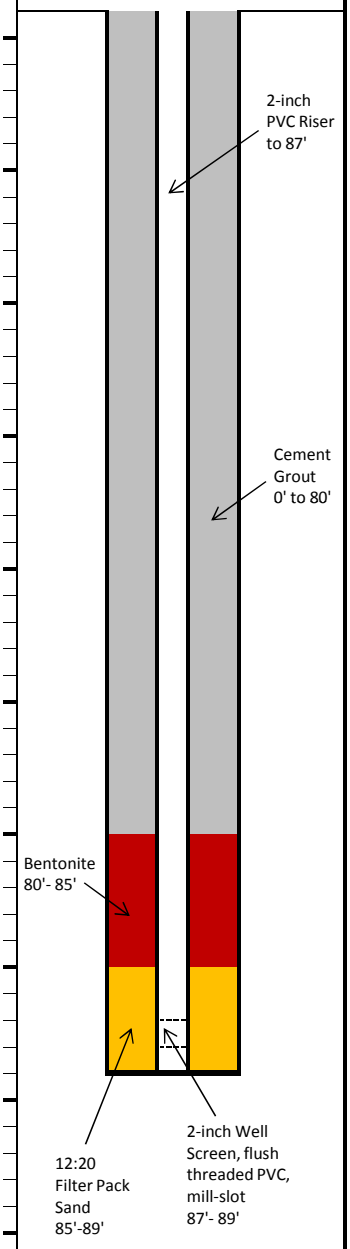
## COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | **A1-I4** |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 1 of 1 |
| Logged By: | DA | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 11/19-20/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA & Air Hammer | Well Type | Flush Mount | Date Well Set | 11/20/2012 |

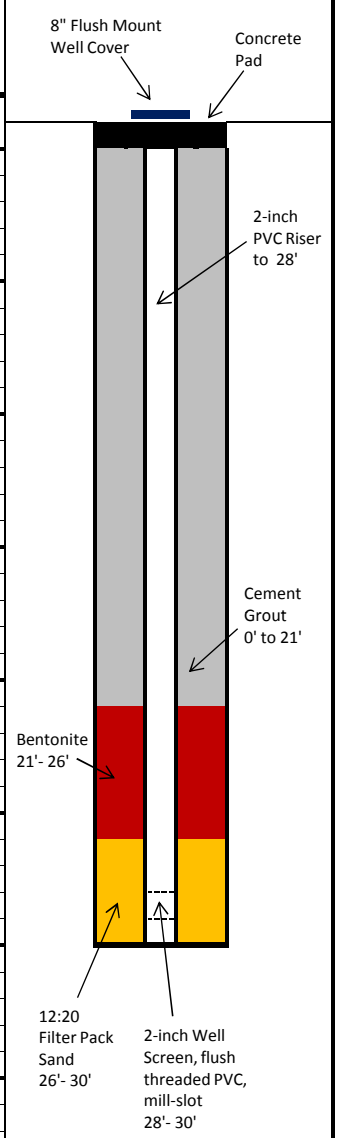
SAGE ENVIRONMENTAL CONSULTING

*"Friendly Service, No Surprises!"®*

| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | Ground Surface |
| | | 0 - 4 | | SM | No soil samples collected |
| 5 | 20 | 4 - 6 | 131.5 | SM | Dark brown silty medium to fine SAND, black staining 10' to 15' |
| | | 6 - 9 | | | |
| 10 | 100 | 9 - 11 | 1,665.0 | | |
| | | 11 - 14 | | | |
| 15 | 5 | 14 - 16 | 11,260.0 | | |
| | | 16 - 19 | | | |
| 20 | 40 | 19 - 21 | 1,589.0 | SM | Light brown silty medium to fine SAND |
| | | 21 - 24 | | | |
| 25 | 40 | 24 - 26 | 217.5 | | |
| | | 26 - 29 | | | |
| 30 | 15 | 29 - 31 | 209.8 | SM | White black silty medium to fine SAND, odor |
| | | | | | Boring terminated at 31 feet bgs. Well set at 30 feet bgs. |
| 35 | | | | | |
| 40 | | | | | |
| 45 | | | | | |
| 50 | | | | | |

Material Settings

## COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | A1-I5 |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 1 of 1 |
| Logged By: | DA | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 11/26/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA & Air Hammer | Well Type | Flush Mount | Date Well Set | 11/26/2012 |

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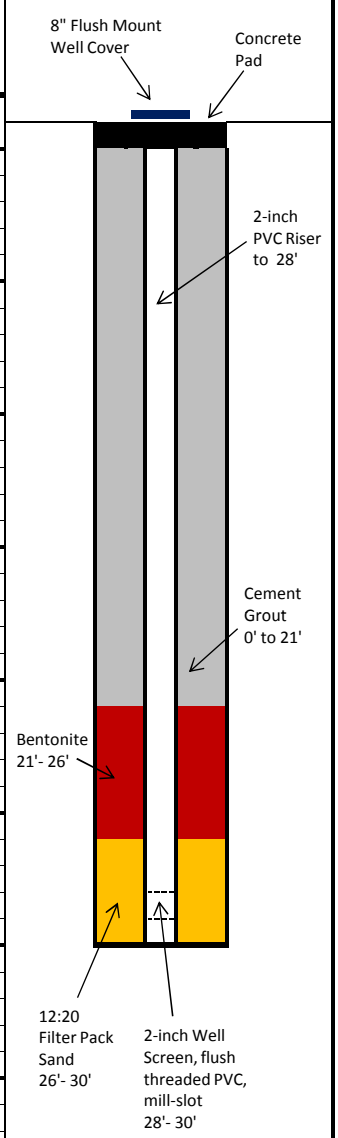
| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION | Material Settings |
|---|---|---|---|---|---|---|
| | | | | | Ground Surface | |
| 0 | | 0 - 4 | | SM | No soil samples collected | |
| 5 | 100 | 4 - 6 | 4,463.0 | SM | Dark brown silty medium to fine SAND, black staining | |
| | | 6 - 9 | | | | |
| 10 | 100 | 9 - 11 | 15,000.0 | | | |
| | | 11 - 14 | | | | |
| 15 | 20 | 14 - 16 | 15,000.0 | SM | Red silty medium to fine SAND | |
| | | 16 - 19 | | | | |
| 20 | 60 | 19 - 21 | 15,000.0 | SM | Gray pink silty medium to fine SAND *DYE TEST @ 20' | |
| | | 21 - 24 | | | | |
| 25 | 100 | 24 - 26 | 5,281.0 | | | |
| | | 26 - 29 | | | | |
| 30 | 100 | 29 - 31 | 2,465.0 | | | |
| | | | | | Boring terminated at 31 feet bgs. Well set at 30 feet bgs. | |
| 35 | | | | | | |
| 40 | | | | | | |
| 45 | | | | | | |
| 50 | | | | | | |

## COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | **A1-I6** |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 1 of 1 |
| Logged By: | DA | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 11/26/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA & Air Hammer | Well Type | Flush Mount | Date Well Set | 11/26/2012 |

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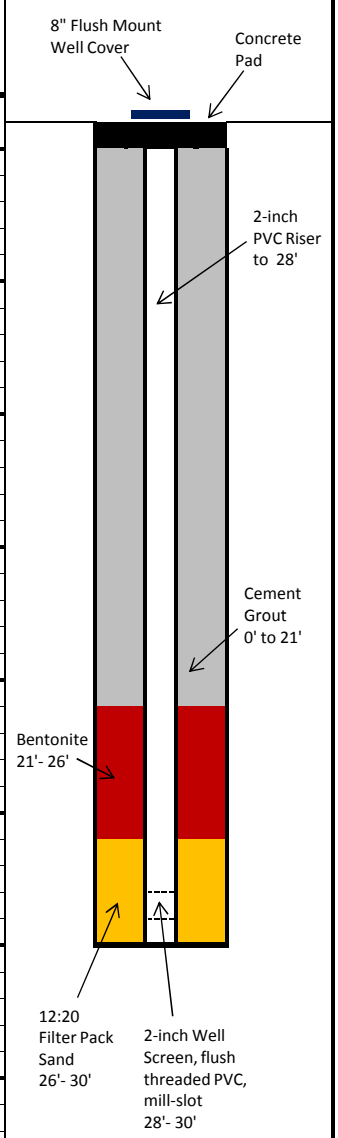
| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION | Material Settings |
|---|---|---|---|---|---|---|
| 0 | | | | | Ground Surface | |
| | | 0 - 4 | | SM | No soil samples collected | |
| 5 | 100 | 4 - 6 | 4,440.0 | SM | Dark brown silty medium to fine SAND, black staining | |
| | | 6 - 9 | | | | |
| 10 | 100 | 9 - 11 | 10,215.0 | | Black red silty medium to fine SAND, moist | |
| | | 11 - 14 | | | | |
| 15 | 100 | 14 - 16 | 15,000.0 | SM | Black silty medium to fine SAND, debris (plastic and rubber fragments), black stained soils no longer visible after 20 feet (bottom of waste pit) | |
| | | 16 - 19 | | | | |
| 20 | 100 | 19 - 21 | 14,307.0 | SM | Gray pink silty medium to fine SAND, saprolitic | |
| | | 21 - 24 | | | | |
| 25 | 100 | 24 - 26 | 7,516.0 | | | |
| | | 26 - 29 | | | | |
| 30 | 100 | 29 - 31 | 9,857.0 | | | |
| | | | | | Boring terminated at 31 feet bgs. Well set at 30 feet bgs. | |
| 35 | | | | | | |
| 40 | | | | | | |
| 45 | | | | | | |
| 50 | | | | | | |

## COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | A1-I7 |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 1 of 2 |
| Logged By: | DA | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 11/27/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA & Air Hammer | Well Type | Flush Mount | Date Well Set | 11/27/2012 |

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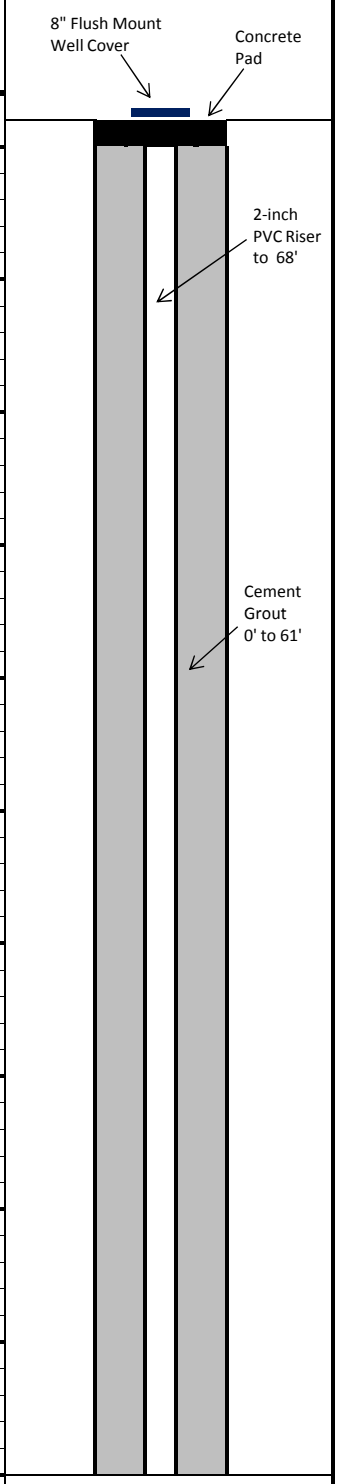
| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | Ground Surface |
| 0 | | 0 - 4 | | | No soil samples collected |
| 5 | 100 | 4 - 6 | 1,666.0 | SM | Dark brown silty medium to fine SAND |
| | | 6 - 9 | | | |
| 10 | 100 | 9 - 11 | 1,092.0 | | |
| | | 11 - 14 | | | |
| 15 | 60 | 14 - 16 | 62.7 | SM | Red silty medium to fine SAND, saprolitic at 20' |
| | | 16 - 19 | | | |
| 20 | 100 | 19 - 21 | 45.0 | | |
| | | 21 - 24 | | | |
| 25 | 100 | 24 - 26 | 42.4 | SM | Gray pink silty medium to fine SAND, saprolitic |
| | | 26 - 29 | | | |
| 30 | 100 | 29 - 31 | 20.8 | | |
| | | 31 - 34 | | | |
| 35 | 100 | 34 - 36 | 19.1 | | |
| | | 36 - 39 | | | |
| 40 | 100 | 39 - 41 | 36.5 | | |
| | | 41 - 44 | | | |
| 45 | 100 | 44 - 46 | 27.5 | | |
| | | | | | No samples collected after 46 feet due to groundwater |
| 50 | | | | | |

Material Settings

COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | A1-I7 |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 2 of 2 |
| Logged By: | DA | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 11/27/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA & Air Hammer | Well Type | Flush Mount | Date Well Set | 11/27/2012 |

| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION | Material Settings |
|---|---|---|---|---|---|---|
| 50 | | | | | No samples collected after 46 feet due to groundwater | |
| 55 | | | | | | |
| 60 | | | | | | |
| 65 | | | | | | |
| 70 | | | | | Boring terminated at 70 feet. Set well at 70 feet bgs. | |
| 75 | | | | | | |
| 80 | | | | | | |
| 85 | | | | | | |
| 90 | | | | | | |
| 95 | | | | | | |

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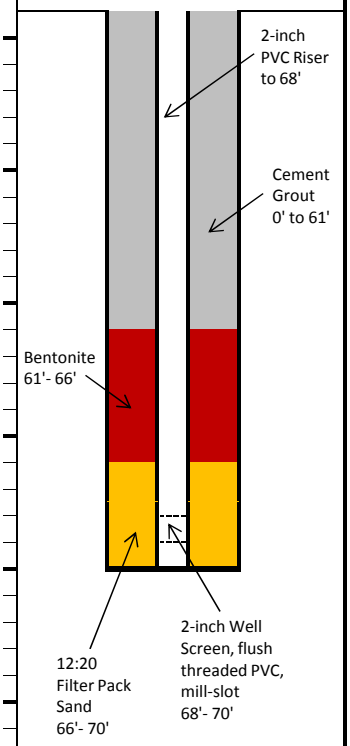
## COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | A1-I9 |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 1 of 2 |
| Logged By: | DA | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 11/27-28/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA & Air Hammer | Well Type | Flush Mount | Date Well Set | 11/28/2012 |

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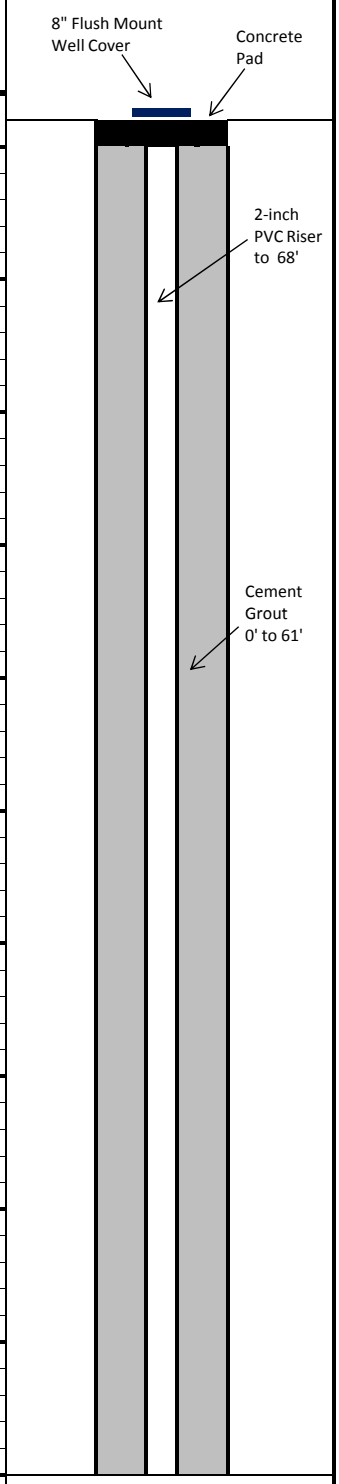
| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Ground Surface |
| | | 0 - 4 | | | No soil samples collected |
| 5 | 100 | 4 - 6 | 24.0 | SM | Dark red silty medium to fine SAND |
| | | 6 - 9 | | | |
| 10 | 100 | 9 - 11 | 25.8 | | |
| | | 11 - 14 | | | |
| 15 | 100 | 14 - 16 | 162.5 | | |
| | | 16 - 19 | | | |
| 20 | 100 | 19 - 21 | 75.2 | SM | Red silty medium to fine SAND, saprolitic |
| | | 21 - 24 | | | |
| 25 | 100 | 24 - 26 | 1,428.0 | | |
| | | 26 - 29 | | | |
| 30 | 100 | 29 - 31 | 3,401.0 | SM | Gray pink silty medium to fine SAND, saprolitic |
| | | 31 - 34 | | | |
| 35 | 100 | 34 - 36 | 5,750.0 | | |
| | | 36 - 39 | | | |
| 40 | 100 | 39 - 41 | 4,071.0 | | |
| | | 41 - 44 | | | |
| 45 | 100 | 44 - 46 | 15,000.0 | | |
| | | | | | No samples collected after 46 feet due to groundwater |
| 50 | | | | | |

Material Settings

COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | A1-I9 |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 2 of 2 |
| Logged By: | DA | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 11/27-28/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA & Air Hammer | Well Type | Flush Mount | Date Well Set | 11/28/2012 |

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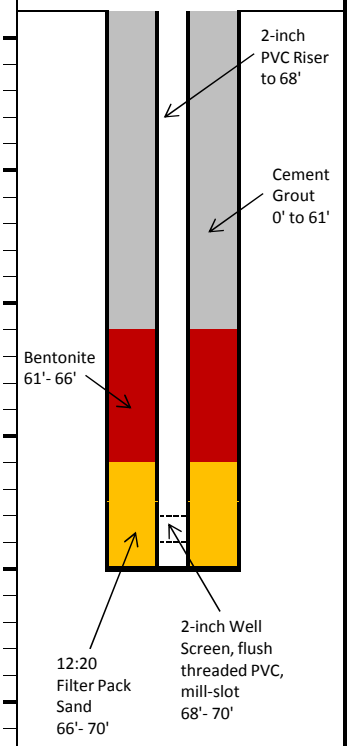
| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION | Material Settings |
|---|---|---|---|---|---|---|
| 50 | | | | | No samples collected after 46 feet due to groundwater | |
| 55 | | | | | | |
| 60 | | | | | | |
| 65 | | | | | | |
| 70 | | | | | Boring terminated at 70 feet. Set well at 70 feet bgs. | |
| 75 | | | | | | |
| 80 | | | | | | |
| 85 | | | | | | |
| 90 | | | | | | |
| 95 | | | | | | |

## COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | A1-I10B |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 1 of 2 |
| Logged By: | DA | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 11/28/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA | Well Type | Flush Mount | Date Well Set | 11/28/2012 |

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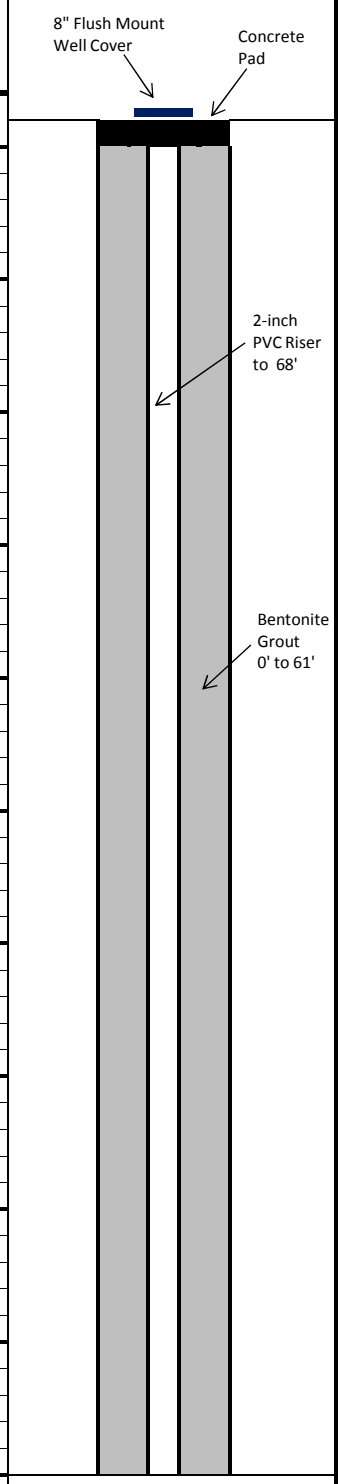
| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Ground Surface |
| | | 0 - 4 | | | No soil samples collected |
| 5 | 100 | 4 - 6 | N/A | SM | Dark brown silty medium to fine SAND, moist |
| | | 6 - 10 | | | |
| 10 | 100 | 10-12 | N/A | | |
| | | 12 - 14 | | | |
| 15 | 100 | 14 - 16 | N/A | | |
| | | 16 - 19 | | | |
| 20 | 100 | 19 - 21 | N/A | SM | Light brown silty medium to fine SAND |
| | | 21 - 24 | | | |
| 25 | 100 | 24 - 26 | N/A | | |
| | | 26 - 29 | | | |
| 30 | 100 | 29 - 31 | N/A | SM | White black silty medium to fine SAND, odor |
| | | 31 - 34 | | | |
| 35 | 100 | 34 - 36 | N/A | | |
| | | 36 - 39 | | | |
| 40 | 100 | 39 - 41 | N/A | | |
| | | 41 - 44 | | | |
| 45 | 100 | 44 - 46 | N/A | | |
| | | | | | No samples collected after 46 feet due to groundwater |
| 50 | | | | | |

Material Settings

COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | A1-I10B |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 2 of 2 |
| Logged By: | DA | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 11/28/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA | Well Type | Flush Mount | Date Well Set | 11/28/2012 |

| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION | Material Settings |
|---|---|---|---|---|---|---|
| 50 | | | | | No samples collected after 46 feet due to groundwater | |
| 55 | | | | | | |
| 60 | | | | | | |
| 65 | | | | | | |
| 70 | | | | | Boring terminated at 70 feet below ground surface (bgs). Monitoring well set from 68 to 70 feet bgs. | |
| 75 | | | | | | |
| 80 | | | | | | |

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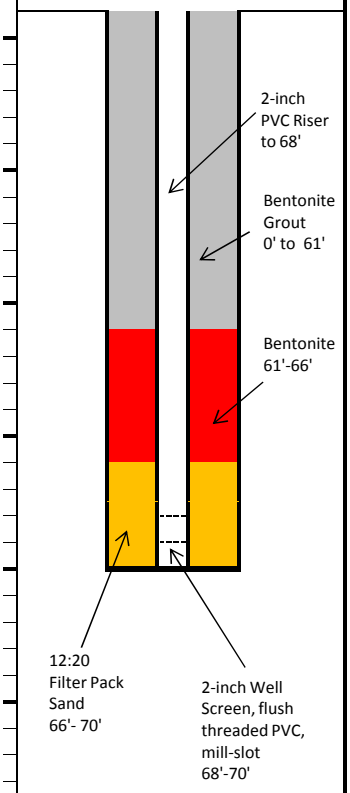
## COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | A1-I11B |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 1 of 2 |
| Logged By: | DA | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 11/19-20/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA | Well Type | Flush Mount | Date Well Set | 11/20/2012 |

SAGE ENVIRONMENTAL CONSULTING
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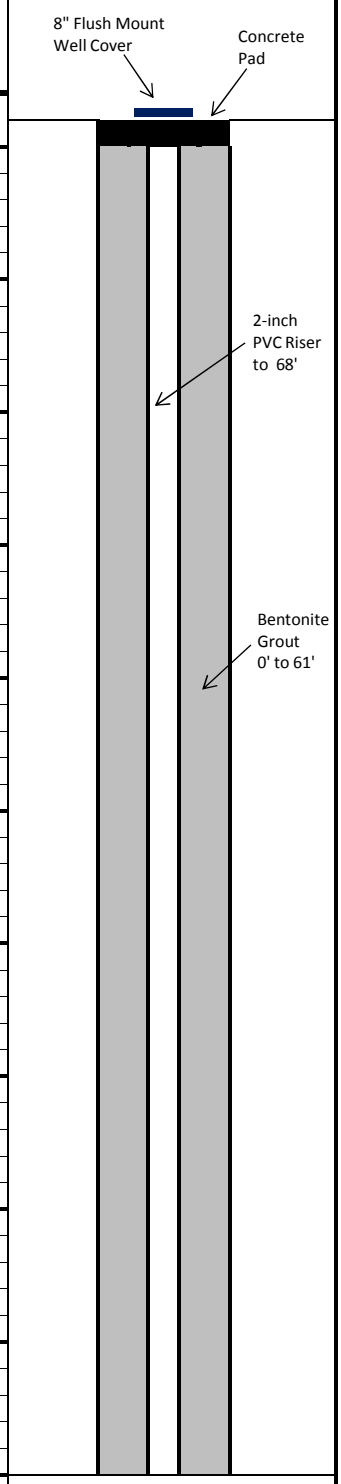
| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Ground Surface |
| | | 0 - 4 | | | No soil samples collected |
| 5 | 100 | 4 - 6 | N/A | SM | Dark brown silty medium to fine SAND, moist |
| | | 6 - 10 | | | |
| 10 | 100 | 10-12 | N/A | | |
| | | 12 - 14 | | | |
| 15 | 100 | 14 - 16 | N/A | | |
| | | 16 - 19 | | | |
| 20 | 100 | 19 - 21 | N/A | SM | Light brown silty medium to fine SAND |
| | | 21 - 24 | | | |
| 25 | 100 | 24 - 26 | N/A | | |
| | | 26 - 29 | | | |
| 30 | 100 | 29 - 31 | N/A | SM | White black silty medium to fine SAND, odor |
| | | 31 - 34 | | | |
| 35 | 100 | 34 - 36 | N/A | | |
| | | 36 - 39 | | | |
| 40 | 100 | 39 - 41 | N/A | | |
| | | 41 - 44 | | | |
| 45 | 100 | 44 - 46 | N/A | | |
| | | | | | No samples collected after 46 feet due to groundwater |
| 50 | | | | | |

Material Settings

COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | A1-I11B |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 2 of 2 |
| Logged By: | DA | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 11/19-20/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA | Well Type | Flush Mount | Date Well Set | 11/20/2012 |

| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION | Material Settings |
|---|---|---|---|---|---|---|
| 50 | | | | | No samples collected after 46 feet due to groundwater | |
| 55 | | | | | | |
| 60 | | | | | | |
| 65 | | | | | | |
| 70 | | | | | Boring terminated at 70 feet below ground surface (bgs). Monitoring well set from 68 to 70 feet bgs. | |
| 75 | | | | | | |
| 80 | | | | | | |

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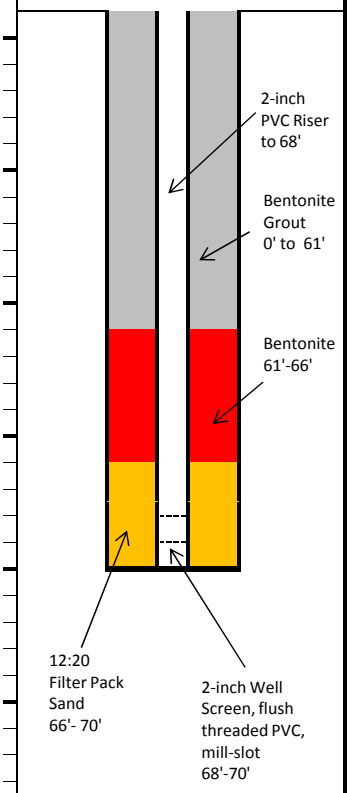
## COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | A1-I12B |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 1 of 2 |
| Logged By: | DA | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 12/6/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA | Well Type | Flush Mount | Date Well Set | 12/6/2012 |

SAGE ENVIRONMENTAL CONSULTING
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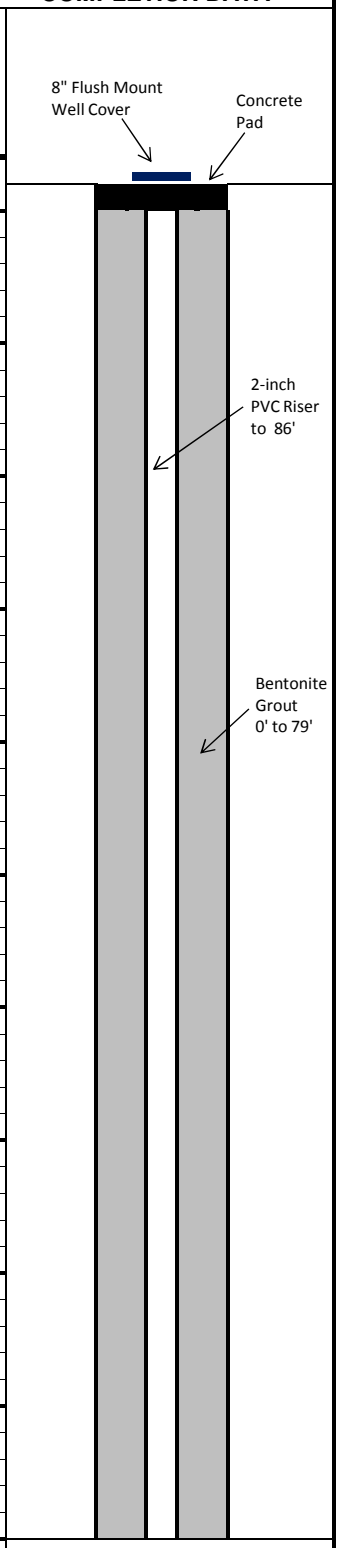
| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION | Material Settings |
|---|---|---|---|---|---|---|
| | | | | | Ground Surface | |
| 0 | | 0 - 4 | | | No soil samples collected | |
| 5 | 100 | 4 - 6 | N/A | SM | Dark brown silty medium to fine SAND, moist | |
| | | 6 - 10 | | | | |
| 10 | 100 | 10-12 | N/A | | | |
| | | 12 - 14 | | | | |
| 15 | 100 | 14 - 16 | N/A | | | |
| | | 16 - 19 | | | | |
| 20 | 100 | 19 - 21 | N/A | SM | Light brown silty medium to fine SAND | |
| | | 21 - 24 | | | | |
| 25 | 100 | 24 - 26 | N/A | | | |
| | | 26 - 29 | | | | |
| 30 | 100 | 29 - 31 | N/A | SM | White black silty medium to fine SAND, odor | |
| | | 31 - 34 | | | | |
| 35 | 100 | 34 - 36 | N/A | | | |
| | | 36 - 39 | | | | |
| 40 | 100 | 39 - 41 | N/A | | | |
| | | 41 - 44 | | | | |
| 45 | 100 | 44 - 46 | N/A | | | |
| | | | | | No samples collected after 46 feet due to groundwater | |
| 50 | | | | | | |

## COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | A1-I12B |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 2 of 2 |
| Logged By: | DA | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 12/6/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA | Well Type | Flush Mount | Date Well Set | 12/6/2012 |

| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION | Material Settings |
|---|---|---|---|---|---|---|
| 50 | | | | | No samples collected after 46 feet due to groundwater | |
| 55 | | | | | | |
| 60 | | | | | | |
| 65 | | | | | | |
| 70 | | | | | | |
| 75 | | | | | | |
| 80 | | | | | | |
| 85 | | | | | | |
| 90 | | | | | Boring terminated at 88 feet below ground surface (bgs). Monitoring well set from 86 to 88 feet bgs. | |

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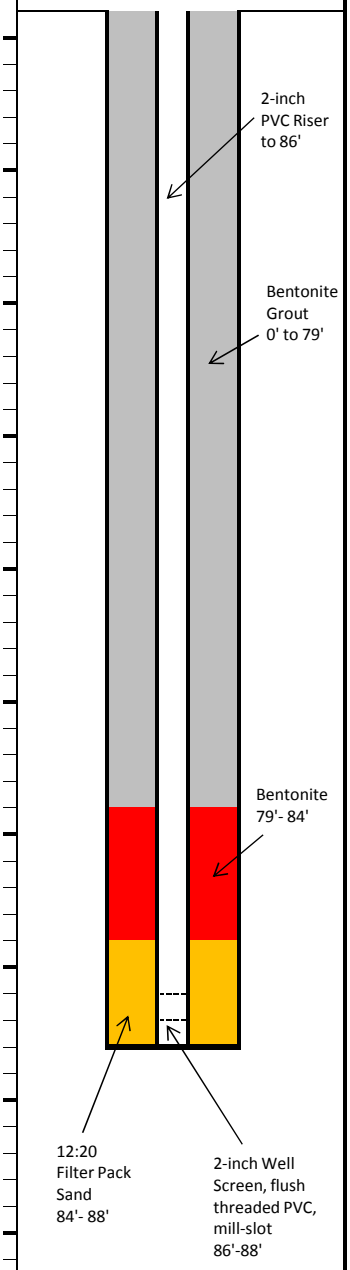
## COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | A1-I13B |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 1 of 2 |
| Logged By: | DA | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 12/7/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA | Well Type | Flush Mount | Date Well Set | 12/7/2012 |

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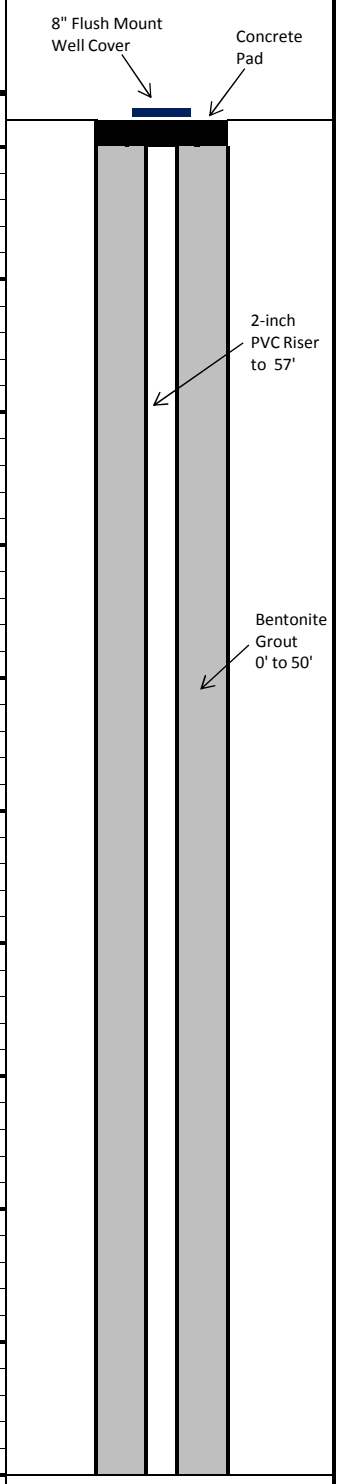
| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Ground Surface |
| | | 0 - 4 | | | No soil samples collected |
| 5 | 100 | 4 - 6 | N/A | SM | Dark red silty medium to fine SAND |
| | | 6 - 10 | | | |
| 10 | 100 | 10-12 | N/A | | |
| | | 12 - 14 | | | |
| 15 | 100 | 14 - 16 | N/A | | |
| | | 16 - 19 | | | |
| 20 | 100 | 19 - 21 | N/A | SM | Red silty medium to fine SAND, saprolitic |
| | | 21 - 24 | | | |
| 25 | 100 | 24 - 26 | N/A | | |
| | | 26 - 29 | | | |
| 30 | 100 | 29 - 31 | N/A | SM | Gray pink silty medium to fine SAND, saprolitic |
| | | 31 - 34 | | | |
| 35 | 100 | 34 - 36 | N/A | | |
| | | 36 - 39 | | | |
| 40 | 100 | 39 - 41 | N/A | | |
| | | 41 - 44 | | | |
| 45 | 100 | 44 - 46 | N/A | | |
| | | | | | No samples collected after 46 feet due to groundwater |
| 50 | | | | | |

Material Settings

COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | A1-I13B |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 2 of 2 |
| Logged By: | DA | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 12/7/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA | Well Type | Flush Mount | Date Well Set | 12/7/2012 |

| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION | Material Settings |
|---|---|---|---|---|---|---|
| 50 | | | | | No samples collected after 46 feet due to groundwater | |
| 55 | | | | | | |
| 60 | | | | | Boring terminated at 59 feet below ground surface (bgs). Monitoring well set from 57 to 59 feet bgs. | |

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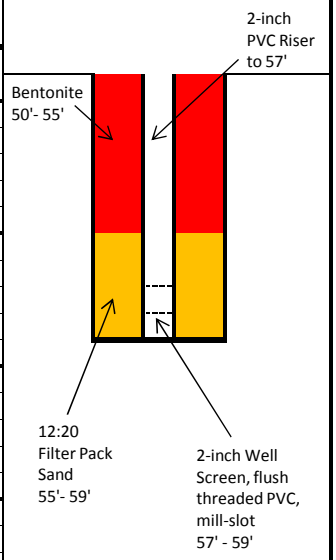
## COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | A1-I14B |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 1 of 1 |
| Logged By: | DA | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 12/7/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA | Well Type | Flush Mount | Date Well Set | 12/7/2012 |

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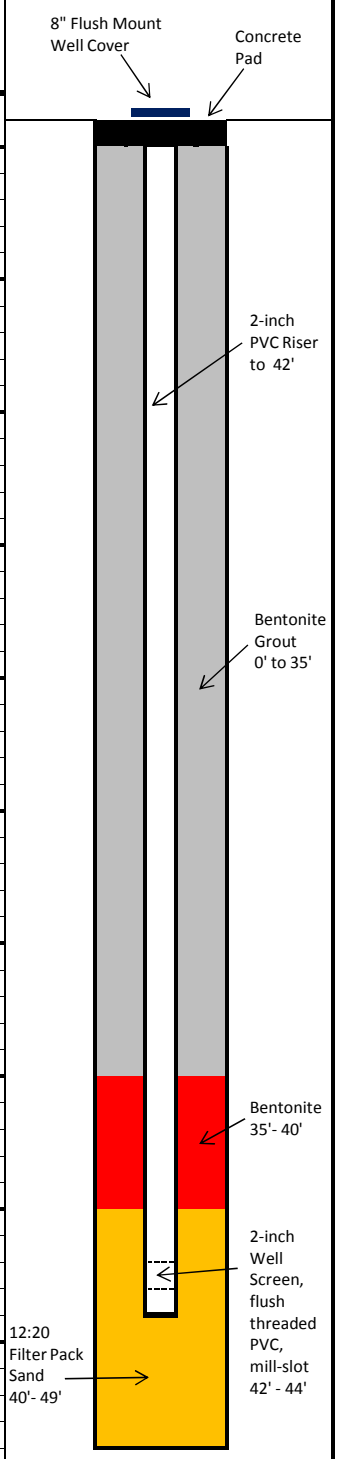
| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Ground Surface |
| | | 0 - 4 | | | No soil samples collected |
| 5 | 100 | 4 - 6 | N/A | SM | Red clayey medium to fine SAND, moist |
| | | 6 - 10 | | | |
| 10 | 100 | 10-12 | N/A | SM | Brown silty medium to fine SAND, moist |
| | | 12 - 14 | | | |
| 15 | 100 | 14 - 16 | N/A | | |
| | | 16 - 19 | | | |
| 20 | 100 | 19 - 21 | N/A | SM | Red white silty medium to fine SAND |
| | | 21 - 24 | | | |
| 25 | 100 | 24 - 26 | N/A | SM | Gray pink silty medium to fine SAND, saprolitic |
| | | 26 - 29 | | | |
| 30 | 100 | 29 - 31 | N/A | | |
| | | 31 - 34 | | | |
| 35 | 100 | 34 - 36 | N/A | | |
| | | 36 - 39 | | | |
| 40 | 100 | 39 - 41 | N/A | | |
| | | | | | Monitoring well set from 42 to 44 feet below ground surface (bgs). |
| 45 | | | | | |
| 50 | | | | | Boring terminated at 49 feet bgs. |

## COMPLETION DATA

Material Settings



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | A1-I15B |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 1 of 1 |
| Logged By: | DA | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 12/18/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA | Well Type | Flush Mount | Date Well Set | 12/18/2012 |

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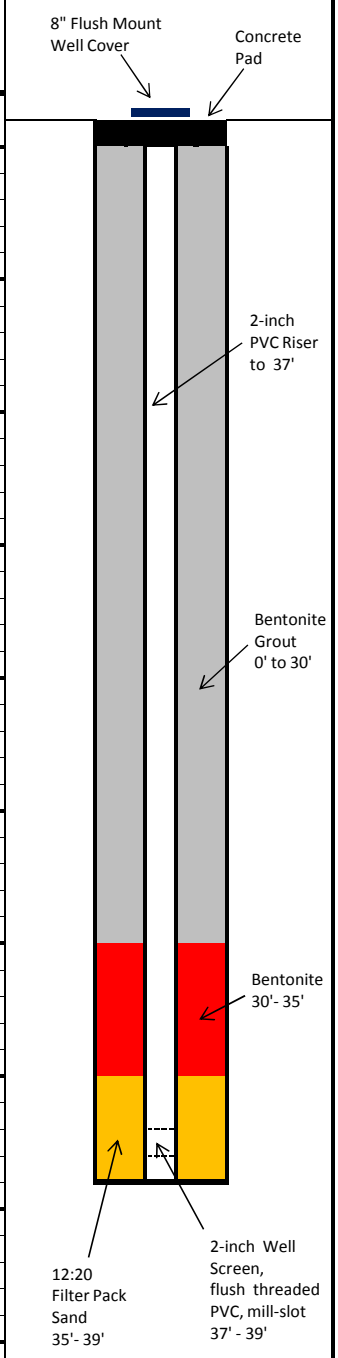
| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION | Material Settings |
|---|---|---|---|---|---|---|
| 0 | | | | | Ground Surface | |
| | | 0 - 4 | | | No soil samples collected | |
| 5 | 100 | 4 - 6 | N/A | SM | Red clayey medium to fine SAND, moist | |
| | | 6 - 10 | | | | |
| 10 | 100 | 10-12 | N/A | SM | Brown silty medium to fine SAND, moist | |
| | | 12 - 14 | | | | |
| 15 | 100 | 14 - 16 | N/A | | | |
| | | 16 - 19 | | | | |
| 20 | 100 | 19 - 21 | N/A | SM | Red white silty medium to fine SAND | |
| | | 21 - 24 | | | | |
| 25 | 100 | 24 - 26 | N/A | | Gray pink silty medium to fine SAND, saprolitic | |
| | | 26 - 29 | | | | |
| 30 | 100 | 29 - 31 | N/A | SM | | |
| | | 31 - 34 | | | | |
| 35 | 100 | 34 - 36 | N/A | | | |
| | | 36 - 39 | | | | |
| 40 | | | | | Boring terminated at 39 feet below ground surface (bgs). Monitoring well set from 37-39 feet bgs. | |
| 45 | | | | | | |
| 50 | | | | | | |

## COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | A1-I16B |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 1 of 2 |
| Logged By: | DA | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 12/18/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA | Well Type | Flush Mount | Date Well Set | 12/18/2012 |

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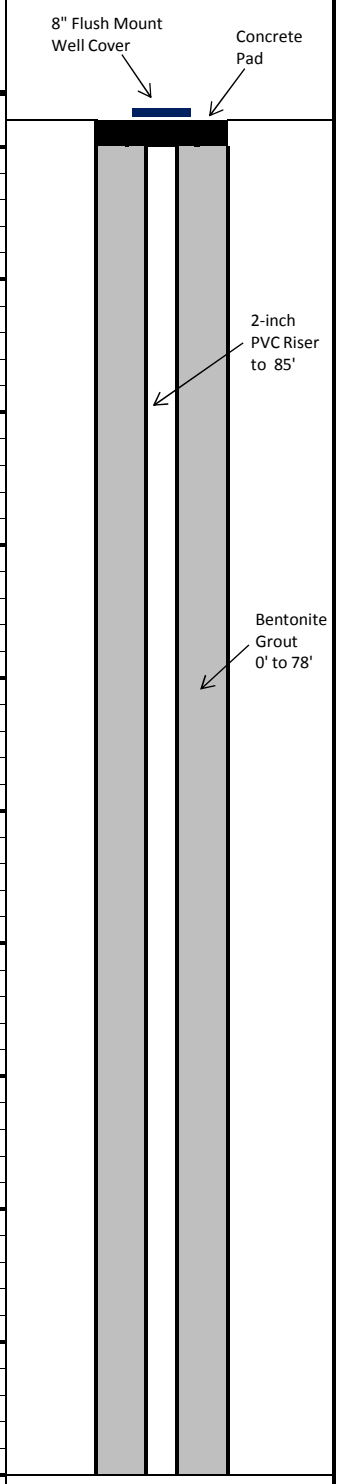
| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Ground Surface |
| | | 0 - 4 | | | No soil samples collected |
| 5 | 100 | 4 - 6 | N/A | SM | Brown medium to fine SAND, moist |
| | | 6 - 10 | | | |
| 10 | 100 | 10-12 | N/A | | |
| | | 12 - 14 | | | |
| 15 | 100 | 14 - 16 | N/A | SM | Red white clayey medium to fine SAND, black mottling |
| | | 16 - 19 | | | |
| 20 | 100 | 19 - 21 | N/A | SM | Gray pink clayey silty medium to fine SAND, black mottling, saprolitic |
| | | 21 - 24 | | | |
| 25 | 100 | 24 - 26 | N/A | SM | Gray pink clayey silty medium to fine SAND, saprolitic |
| | | 26 - 29 | | | |
| 30 | 100 | 29 - 31 | N/A | | |
| | | 31 - 34 | | | |
| 35 | 100 | 34 - 36 | N/A | | |
| | | 36 - 39 | | | |
| 40 | 100 | 39 - 41 | N/A | | |
| | | 41 - 44 | | | |
| 45 | 100 | 44 - 46 | N/A | SM | Brown silty medium to fine SAND, saprolitic |
| | | | | | No samples collected after 46 feet due to groundwater |
| 50 | | | | | |

Material Settings

COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | A1-I16B |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 2 of 2 |
| Logged By: | DA | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 12/18/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA | Well Type | Flush Mount | Date Well Set | 12/18/2012 |

| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION | Material Settings |
|---|---|---|---|---|---|---|
| 50 | | | | | No samples collected after 46 feet due to groundwater | |
| 55 | | | | | | |
| 60 | | | | | | |
| 65 | | | | | | |
| 70 | | | | | | |
| 75 | | | | | | |
| 80 | | | | | | |
| 85 | | | | | Boring terminated at 87 feet below ground surface (bgs). Monitoring well set from 85 to 87 feet bgs. | |
| 90 | | | | | | |

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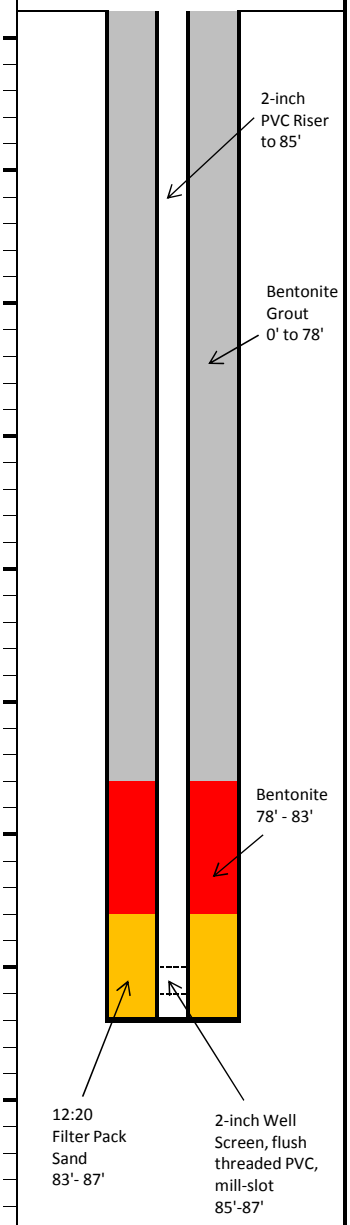
## COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | **MW-20** |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 1 of 2 |
| Logged By: | DA | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 12/19/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA | Well Type | Flush Mount | Date Well Set | 12/19/2012 |

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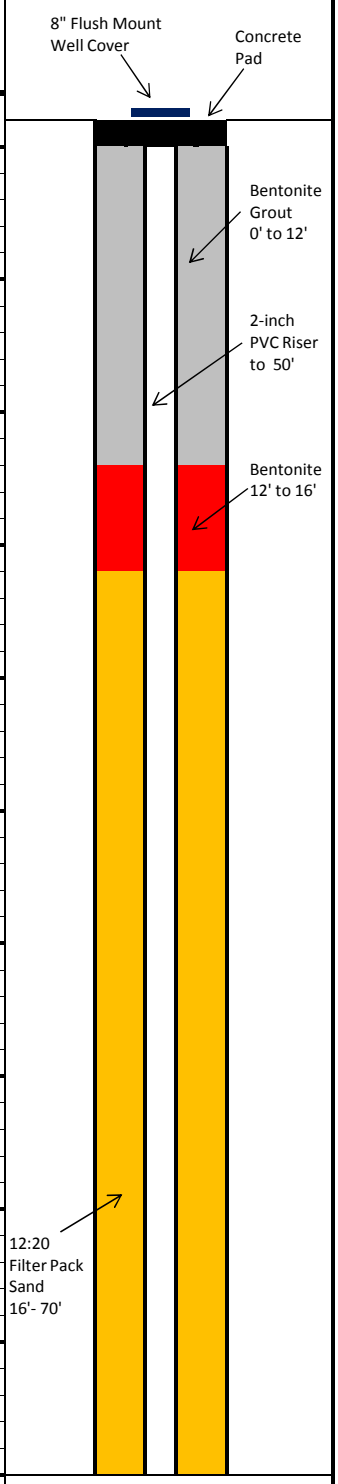
| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Ground Surface |
| | | 0 - 4 | | | No soil samples collected |
| 5 | 100 | 4 - 6 | N/A | SM | Brown medium to fine SAND, moist |
| | | 6 - 10 | | | |
| 10 | 100 | 10-12 | N/A | | |
| | | 12 - 14 | | | |
| 15 | 100 | 14 - 16 | N/A | SM | Red white clayey medium to fine SAND, black mottling |
| | | 16 - 19 | | | |
| 20 | 100 | 19 - 21 | N/A | SM | Gray pink clayey silty medium to fine SAND, black mottling, saprolitic |
| | | 21 - 24 | | | |
| 25 | 100 | 24 - 26 | N/A | SM | Gray pink clayey silty medium to fine SAND, saprolitic |
| | | 26 - 29 | | | |
| 30 | 100 | 29 - 31 | N/A | | |
| | | 31 - 34 | | | |
| 35 | 100 | 34 - 36 | N/A | | |
| | | 36 - 39 | | | |
| 40 | 100 | 39 - 41 | N/A | | |
| | | 41 - 44 | | | |
| 45 | 100 | 44 - 46 | N/A | SM | Brown silty medium to fine SAND, saprolitic |
| | | | | | No samples collected after 46 feet due to groundwater |
| 50 | | | | | |

**COMPLETION DATA**

Material Settings



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | **MW-20** |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 2 of 2 |
| Logged By: | DA | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 12/19/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA | Well Type | Flush Mount | Date Well Set | 12/19/2012 |

| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION | Material Settings |
|---|---|---|---|---|---|---|
| 50 | | | | | No samples collected after 46 feet due to groundwater | |
| 55 | | | | | | |
| 60 | | | | | | |
| 65 | | | | | | |
| 70 | | | | | Boring terminated at 70 feet below ground surface (bgs). Monitoring well set from 50 to 70 feet bgs. | |
| 75 | | | | | | |

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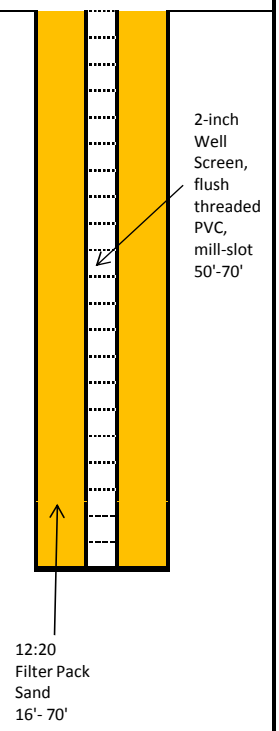
## COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | **Extraction Well #1** |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 1 of 1 |
| Logged By: | MRH | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 4/18/2014 |
| Project Name | eGEO Systems | Drilling Method | HSA | Well Type | Flush Mount | Date Well Set | 4/18/2014 |

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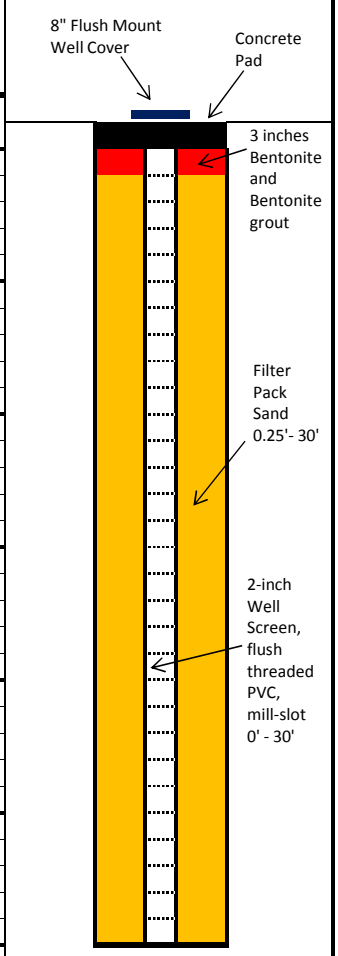
| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION | Material Settings |
|---|---|---|---|---|---|---|
| 0 | | | | | Ground Surface | |
| | | 0 - 4 | | ML | Red brown medium to fine sandy SILT, black staining from 8 to 10 feet | |
| 5 | N/A | 4 - 6 | N/A | | | |
| | | 6 - 9 | | | | |
| 10 | N/A | 9 - 11 | N/A | | | |
| | | 11 - 13 | | ML | Brown red clayey medium to fine sandy SILT | |
| 15 | N/A | 13 - 16 | N/A | | | |
| | | 16 - 19 | | ML | Red brown medium to fine sandy SILT | |
| 20 | N/A | 19 - 21 | N/A | | | |
| | | 21 - 24 | | SM | Brown tan silty medium to fine SAND | |
| 25 | N/A | 24 - 26 | N/A | | | |
| | | 26 - 28 | | | | |
| | N/A | 28 - 30 | N/A | | | |
| 30 | | | | | Boring terminated at 30 feet below ground surface (bgs). Extraction well installed. | |
| 35 | | | | | | |
| 40 | | | | | | |
| 45 | | | | | | |
| 50 | | | | | | |

## COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | **Extraction Well #2** |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 1 of 1 |
| Logged By: | MRH | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 4/21/2014 |
| Project Name | eGEO Systems | Drilling Method | HSA | Well Type | Flush Mount | Date Well Set | 4/21/2014 |

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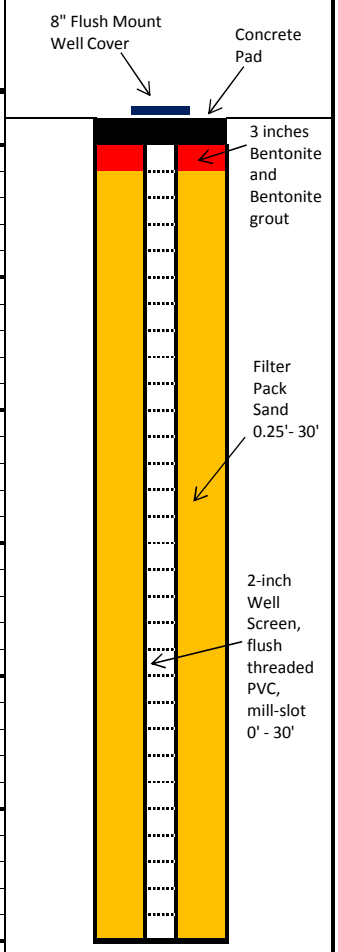
| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION | Material Settings |
|---|---|---|---|---|---|---|
| 0 | | | | | Ground Surface | |
| | | 0 - 4 | | ML | Red brown medium to fine sandy SILT, moist | |
| 5 | N/A | 4 - 6 | N/A | | | |
| | | 6 - 9 | | CL | Red brown silty CLAY, moist | |
| 10 | N/A | 9 - 11 | N/A | | | |
| | | 11 - 13 | | | Red orange brown medium to fine sandy SILT, wet | |
| 15 | N/A | 13 - 16 | N/A | ML | | |
| | | 16 - 19 | | | | |
| 20 | N/A | 19 - 21 | N/A | | | |
| | | 21 - 24 | | | Brown red medium to fine sandy SILT, trace CLAY, moist | |
| 25 | N/A | 24 - 26 | N/A | ML | | |
| | | 26 - 28 | | | | |
| | N/A | 28 - 30 | N/A | | | |
| 30 | | | | | Boring terminated at 30 feet below ground surface (bgs). Extraction well installed. | |
| 35 | | | | | | |
| 40 | | | | | | |
| 45 | | | | | | |
| 50 | | | | | | |

## COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | **Extraction Well #3** |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 1 of 1 |
| Logged By: | MRH | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 4/21/2014 |
| Project Name | eGEO Systems | Drilling Method | HSA | Well Type | Flush Mount | Date Well Set | 4/21/2014 |

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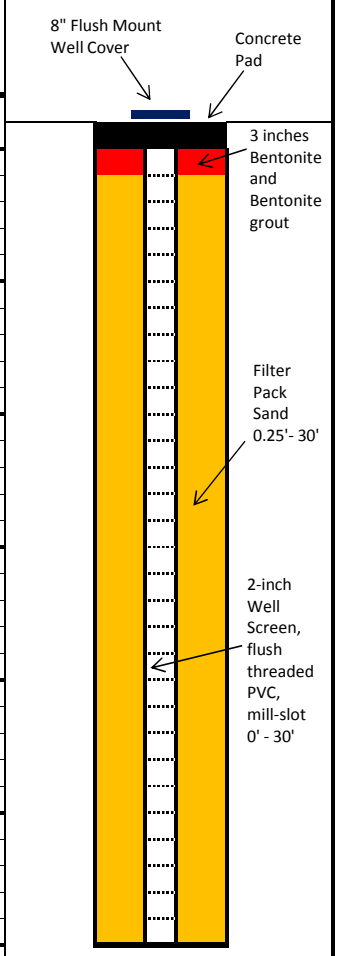
| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION | Material Settings |
|---|---|---|---|---|---|---|
| 0 | | | | | Ground Surface | |
| | | 0 - 4 | | CL | Red brown silty CLAY, moist, hard drilling at 3 to 4 feet | |
| 5 | N/A | 4 - 6 | N/A | | | |
| | | 6 - 9 | | | | |
| 10 | N/A | 9 - 11 | N/A | | | |
| | | 11 - 13 | | CL | Dark brown silty CLAY, moist | |
| 15 | N/A | 13 - 16 | N/A | | | |
| | | 16 - 19 | | ML | Dark brown black medium to fine sandy SILT, wet | |
| 20 | N/A | 19 - 21 | N/A | | | |
| | | 21 - 24 | | | Brown medium to fine sandy SILT, wet | |
| 25 | N/A | 24 - 26 | N/A | ML | | |
| | | 26 - 28 | | | | |
| | N/A | 28 - 30 | N/A | | | |
| 30 | | | | | Boring terminated at 30 feet below ground surface (bgs). Extraction well installed. | |
| 35 | | | | | | |
| 40 | | | | | | |
| 45 | | | | | | |
| 50 | | | | | | |

## COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | **Extraction Well #4** |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 1 of 1 |
| Logged By: | MRH | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 4/22/2014 |
| Project Name | eGEO Systems | Drilling Method | HSA | Well Type | Flush Mount | Date Well Set | 4/22/2014 |

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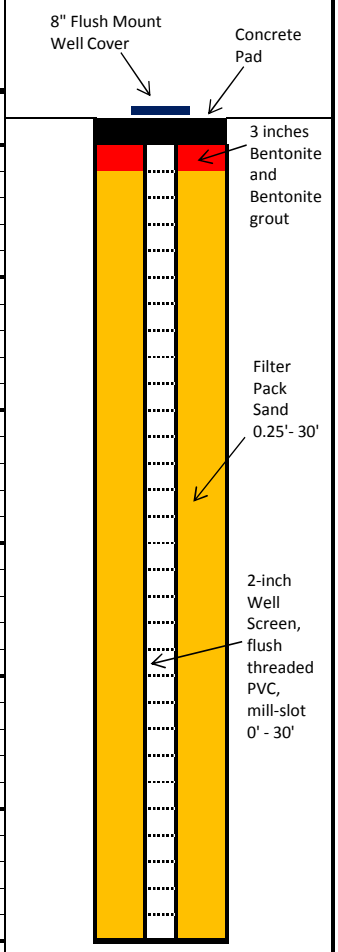
| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION | Material Settings |
|---|---|---|---|---|---|---|
| 0 | | | | | Ground Surface | |
| | | 0 - 4 | | ML | Red brown medium to fine sandy SILT | |
| 5 | N/A | 4 - 6 | N/A | | | |
| | | 6 - 9 | | | | |
| 10 | N/A | 9 - 11 | N/A | | | |
| | | 11 - 13 | | ML | Tan medium to fine sandy SILT, moist | |
| 15 | N/A | 13 - 16 | N/A | | | |
| | | 16 - 19 | | | | |
| 20 | N/A | 19 - 21 | N/A | | | |
| | | 21 - 24 | | | | |
| 25 | N/A | 24 - 26 | N/A | | | |
| | | 26 - 28 | | | | |
| | N/A | 28 - 30 | N/A | | | |
| 30 | | | | | Boring terminated at 30 feet below ground surface (bgs). Extraction well installed. | |
| 35 | | | | | | |
| 40 | | | | | | |
| 45 | | | | | | |
| 50 | | | | | | |

## COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

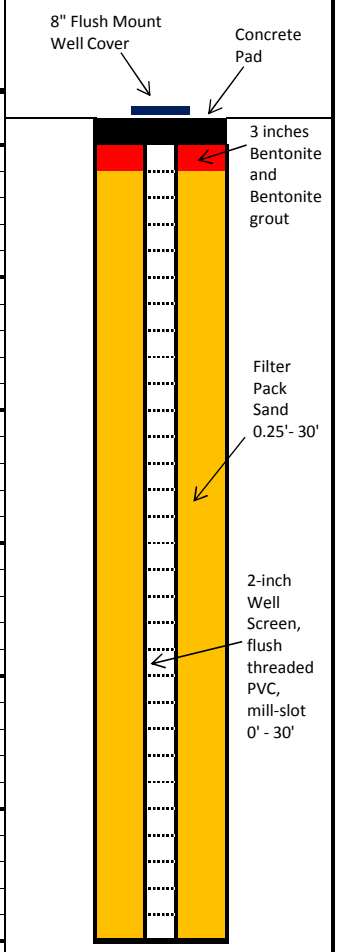
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | **Extraction Well #5** |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 1 of 1 |
| Logged By: | MRH | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 4/22/2014 |
| Project Name | eGEO Systems | Drilling Method | HSA | Well Type | Flush Mount | Date Well Set | 4/22/2014 |

SAGE ENVIRONMENTAL CONSULTING

*"Friendly Service, No Surprises!"®*

| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION | Material Settings |
|---|---|---|---|---|---|---|
| 0 | | | | | Ground Surface | |
| | | 0 - 4 | | ML | Red brown medium to fine sandy SILT, moist, concrete debris 8 to 10 feet | |
| 5 | N/A | 4 - 6 | N/A | | | |
| | | 6 - 9 | | | | |
| 10 | N/A | 9 - 11 | N/A | | Voids with debris from 10 to 20 feet | |
| | | 11 - 13 | | | | |
| 15 | N/A | 13 - 16 | N/A | | | |
| | | 16 - 19 | | | | |
| 20 | N/A | 19 - 21 | N/A | | | |
| | | 21 - 24 | | ML | Tan brown medium to fine sandy SILT, moist | |
| 25 | N/A | 24 - 26 | N/A | | | |
| | | 26 - 28 | | | | |
| | N/A | 28 - 30 | N/A | | | |
| 30 | | | | | Boring terminated at 30 feet below ground surface (bgs). Extraction well installed. | |
| 35 | | | | | | |
| 40 | | | | | | |
| 45 | | | | | | |
| 50 | | | | | | |

## COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

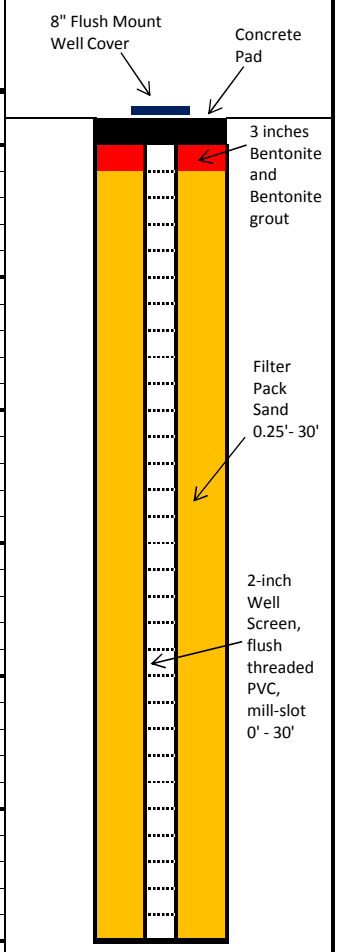
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | Injection Well #1 |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 1 of 1 |
| Logged By: | MRH | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 4/21/2014 |
| Project Name | eGEO Systems | Drilling Method | HSA | Well Type | Flush Mount | Date Well Set | 4/21/2014 |

SAGE ENVIRONMENTAL CONSULTING

*"Friendly Service, No Surprises!"®*

| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION | Material Settings |
|---|---|---|---|---|---|---|
| 0 | | | | | Ground Surface | |
| | | 0 - 4 | | CL | Red brown medium to fine sandy silty CLAY, moist (concrete derbris from 8 to 10 feet) | |
| 5 | N/A | 4 - 6 | N/A | | | |
| | | 6 - 9 | | | | |
| 10 | N/A | 9 - 11 | N/A | | | |
| | | 11 - 13 | | | | |
| 15 | N/A | 13 - 16 | N/A | | | |
| | | 16 - 19 | | CL | Gray brown medium to fine sandy silty CLAY, wet | |
| 20 | N/A | 19 - 21 | N/A | | | |
| | | 21 - 24 | | | | |
| 25 | N/A | 24 - 26 | N/A | | | |
| | | 26 - 28 | | CL | Gray brown medium to fine sandy CLAY, moist | |
| | N/A | 28 - 30 | N/A | | | |
| 30 | | | | | Boring terminated at 30 feet below ground surface (bgs). Extraction well installed. | |
| 35 | | | | | | |
| 40 | | | | | | |
| 45 | | | | | | |
| 50 | | | | | | |

## COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

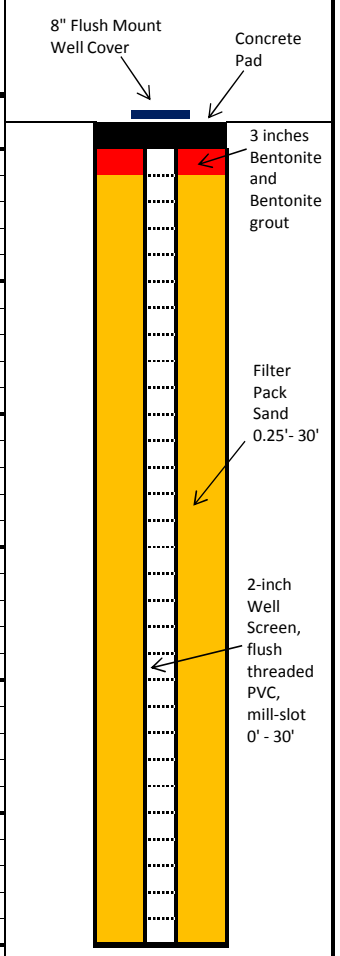
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | Injection Well #2 |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 1 of 1 |
| Logged By: | MRH | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 4/21/2014 |
| Project Name | eGEO Systems | Drilling Method | HSA | Well Type | Flush Mount | Date Well Set | 4/21/2014 |

SAGE ENVIRONMENTAL CONSULTING

*"Friendly Service, No Surprises!"®*

| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION | Material Settings |
|---|---|---|---|---|---|---|
| 0 | | | | | Ground Surface | |
| | | 0 - 4 | | CL | Red brown medium to fine sandy silty CLAY, moist (concrete derbris from 4 to 5 feet, hard drilling) | |
| 5 | N/A | 4 - 6 | N/A | | | |
| | | 6 - 9 | | | | |
| 10 | N/A | 9 - 11 | N/A | | | |
| | | 11 - 13 | | ML | Red brown medium to fine sandy SILT, moist, black staining | |
| 15 | N/A | 13 - 16 | N/A | | | |
| | | 16 - 19 | | ML | Gray black medium to fine sandy SILT, moist to wet | |
| 20 | N/A | 19 - 21 | N/A | | | |
| | | 21 - 24 | | CL | Gray silty CLAY, moist | |
| 25 | N/A | 24 - 26 | N/A | | | |
| | | 26 - 28 | | | | |
| | N/A | 28 - 30 | N/A | | | |
| 30 | | | | | Boring terminated at 30 feet below ground surface (bgs). Extraction well installed. | |
| 35 | | | | | | |
| 40 | | | | | | |
| 45 | | | | | | |
| 50 | | | | | | |

## COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

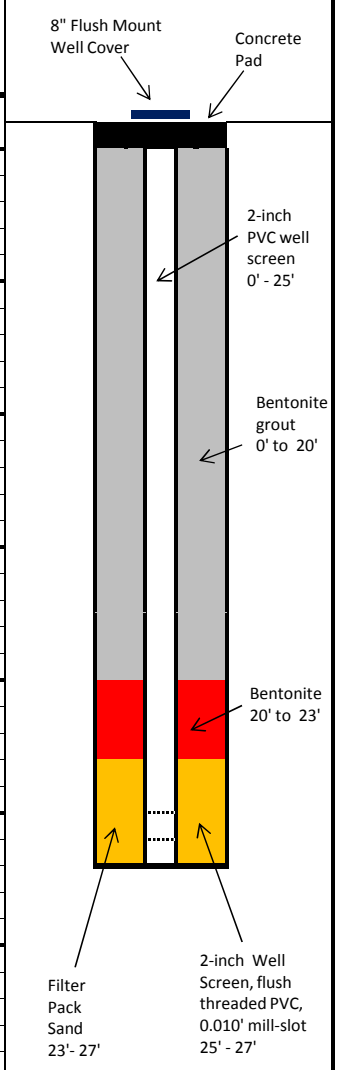
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | A2-I4 |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 1 of 1 |
| Logged By: | JAW | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 10/30/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA | Well Type | Flush Mount | Date Well Set | 10/30/2012 |

SAGE ENVIRONMENTAL CONSULTING

*"Friendly Service, No Surprises!"®*

| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION | Material Settings |
|---|---|---|---|---|---|---|
| 0 | | | | | Ground Surface | |
| | | 0 - 4 | | SM | Red brown medium to fine SAND | |
| 5 | N/A | 4 - 6 | N/A | | | |
| | | 6 - 9 | | | | |
| 10 | N/A | 9 - 11 | N/A | ML | Green medium to fine sandy SILT | |
| | | 11 - 13 | | | | |
| 15 | N/A | 13 - 16 | N/A | | | |
| | | 16 - 19 | | | | |
| 20 | N/A | 19 - 21 | N/A | SM | Orange black silty clayey medium to fine SAND | |
| | | 21 - 24 | | | | |
| 25 | N/A | 24 - 26 | N/A | | | |
| | | 27 | | | Auger refusal at 27 feet below ground surface (bgs). Injection well installed. | |
| 30 | | | | | | |
| 35 | | | | | | |
| 40 | | | | | | |
| 45 | | | | | | |
| 50 | | | | | | |

## COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

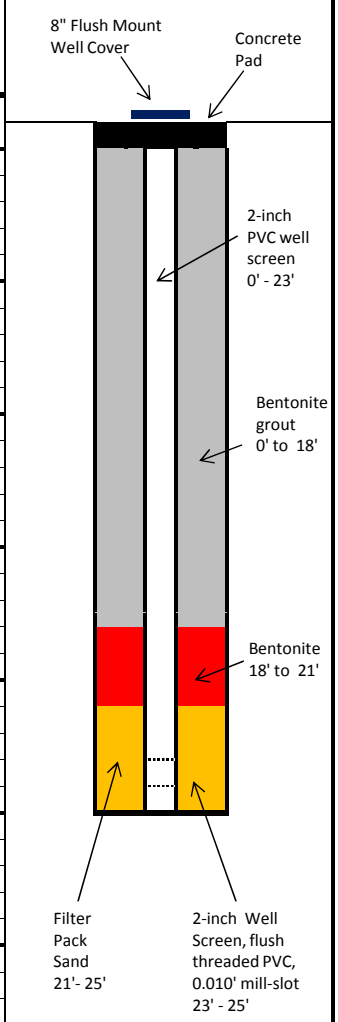
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | A2-I3 |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 1 of 1 |
| Logged By: | JAW | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 10/30/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA | Well Type | Flush Mount | Date Well Set | 10/30/2012 |

SAGE ENVIRONMENTAL CONSULTING

*"Friendly Service, No Surprises!"®*

| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION | Material Settings |
|---|---|---|---|---|---|---|
| 0 | | | | | Ground Surface | |
| | | 0 - 4 | | SM | Red brown medium to fine SAND | |
| 5 | N/A | 4 - 6 | N/A | | | |
| | | 6 - 9 | | | | |
| 10 | N/A | 9 - 11 | N/A | ML | Green medium to fine sandy SILT | |
| | | 11 - 13 | | | | |
| 15 | N/A | 13 - 16 | N/A | | | |
| | | 16 - 19 | | | | |
| 20 | N/A | 19 - 21 | N/A | SM | Orange black silty clayey medium to fine SAND | |
| | | 21 - 24 | | | | |
| 25 | N/A | 25 | N/A | | Auger refusal at 25 feet below ground surface (bgs). Injection well installed. | |
| 30 | | | | | | |
| 35 | | | | | | |
| 40 | | | | | | |
| 45 | | | | | | |
| 50 | | | | | | |

## COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

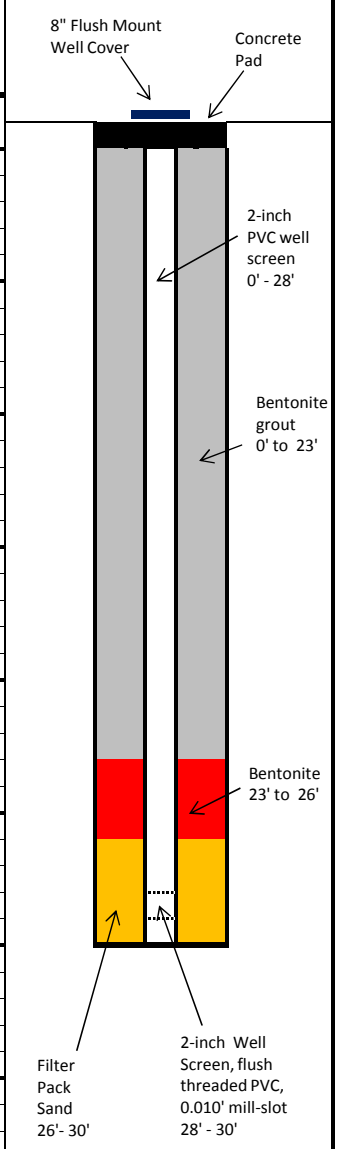
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | A2-I2 |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 1 of 1 |
| Logged By: | JAW | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 10/30/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA | Well Type | Flush Mount | Date Well Set | 10/30/2012 |

SAGE ENVIRONMENTAL CONSULTING

"Friendly Service, No Surprises!"®

| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION | Material Settings |
|---|---|---|---|---|---|---|
| 0 | | | | | Ground Surface | |
| | | 0 - 4 | | SM | Red brown medium to fine SAND | |
| 5 | N/A | 4 - 6 | N/A | | | |
| | | 6 - 9 | | | | |
| 10 | N/A | 9 - 11 | N/A | ML | Green medium to fine sandy SILT | |
| | | 11 - 13 | | | | |
| 15 | N/A | 13 - 16 | N/A | | | |
| | | 16 - 19 | | | | |
| 20 | N/A | 19 - 21 | N/A | SM | Orange black silty clayey medium to fine SAND | |
| | | 21 - 24 | | | | |
| 25 | N/A | 24 - 26 | N/A | | | |
| | | 26 - 28 | | | | |
| | N/A | 28 - 30 | N/A | | | |
| 30 | | | | | Boring terminated at 30 feet below ground surface (bgs). Injection well installed. | |
| 35 | | | | | | |
| 40 | | | | | | |
| 45 | | | | | | |
| 50 | | | | | | |

## COMPLETION DATA



# MONITOR WELL CONSTRUCTION LOG

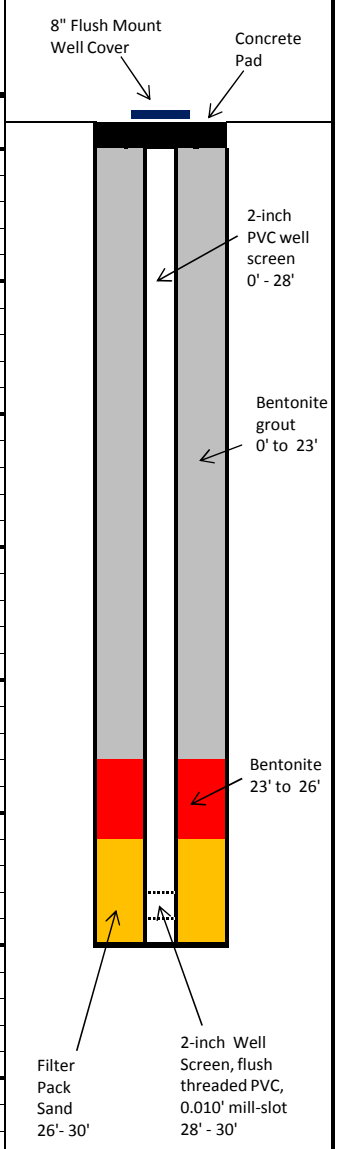
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client | Genuine Parts Company | Top Well Casing (El) | | GW Level ATB | | Well No. | A2-I1 |
| Job No. | 1221-1-4 | Ground Surface (El) | | Static GW Level | | Page | 1 of 1 |
| Logged By: | JAW | Sampling Method | Split Spoon | Drilling Company | EEI | Date Drilled | 10/30/2012 |
| Project Name | eGEO Systems | Drilling Method | HSA | Well Type | Flush Mount | Date Well Set | 10/30/2012 |

SAGE ENVIRONMENTAL CONSULTING

"Friendly Service, No Surprises!"®

| Depth (feet) | Sample Recovery % | Sample Depth (FEET) | PID Reading (PPM) | USCS Symbol | LITHOLOGIC DESCRIPTION | Material Settings |
|---|---|---|---|---|---|---|
| 0 | | | | | Ground Surface | |
| | | 0 - 4 | | SM | Red brown medium to fine SAND | |
| 5 | N/A | 4 - 6 | N/A | | | |
| | | 6 - 9 | | | | |
| 10 | N/A | 9 - 11 | N/A | ML | Green medium to fine sandy SILT | |
| | | 11 - 13 | | | | |
| 15 | N/A | 13 - 16 | N/A | | | |
| | | 16 - 19 | | | | |
| 20 | N/A | 19 - 21 | N/A | SM | Orange black silty clayey medium to fine SAND | |
| | | 21 - 24 | | | | |
| 25 | N/A | 24 - 26 | N/A | | | |
| | | 26 - 28 | | | | |
| | N/A | 28 - 30 | N/A | | | |
| 30 | | | | | Boring terminated at 30 feet below ground surface (bgs). Injection well installed. | |
| 35 | | | | | | |
| 40 | | | | | | |
| 45 | | | | | | |
| 50 | | | | | | |

## COMPLETION DATA



CD CERTIFICATION

I certify that this electronic copy is complete, identical to the paper copy, and virus free.

Jack A. Wintle, P.G.
Senior Regulatory Specialist
Sage Environmental Consulting, LP